

**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*

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and KCP&L Greater Missouri Operations Company

**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<sup>th</sup> day of February, 2017, to all parties of record.

*/s/ Roger W. Steiner*

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Roger W. Steiner

# Current List of DSM Measure Assumptions for KCP&L

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

I

J

K

Count: 162

Column Equation:

see column R

= H / L

Measure Description							Gross Measure Value			
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
Income-Eligible Multi-Family	All	Lighting	Screw In - CFLs (Food Bank Distribution)	0001		per lamp	\$1.70	28.2901	0.030	9.5%
Home Lighting Rebate	All	Lighting	Screw In - LEDs	0002		per lamp	\$15.00	30.9532	0.033	9.5%
Home Appliance Recycling Rebate	All	Appliances	Dehumidifier Recycle	0003		per unit	\$49.00	139.0000		
Home Appliance Recycling Rebate	All	Appliances	Freezer - Recycle	0004		per unit	\$93.00	1,201.0000		
Home Appliance Recycling Rebate	All	Appliances	Refrigerator - Recycle	0005		per unit	\$93.00	1,190.0000		
Home Appliance Recycling Rebate	All	Appliances	Room A/C Recycle	0006		per unit	\$49.00	121.0000		
Whole House Efficiency	Single Family	Lighting	Screw In - CFLs	0007	Tier 1	per lamp	\$1.70	28.2901	0.030	10%
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	0008	Tier 1	per lamp	\$15.00	30.9532	0.033	10%
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	0008.1	Tier 1	per lamp	\$15.00	33.1677	0.035	10%
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	per unit	\$9.00	74.0357	0.008	
Whole House Efficiency	Single Family	Hot Water	Low Flow Showerhead	0011	Tier 1	per unit	\$15.00	272.9500		3%
Whole House Efficiency	Single Family	Hot Water	Water Heater Tank Wrap	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%
Whole House Efficiency	Single Family	HVAC - Shell	Air Sealing	0014	Tier 2	per sq ft (floor area)	\$0.12	0.2300		
Whole House Efficiency	Single Family	HVAC - Shell	Increased Ceiling Insulation	0015	Tier 2	per sq ft (ceiling area)	\$0.76	0.5200		
Whole House Efficiency	Single Family	HVAC - Shell	Increased Wall Insulation	0016	Tier 2	per sq ft (wall area)	\$1.32	0.7200		
Whole House Efficiency	Single Family	HVAC - Shell	ENERGY STAR Windows	0017	Tier 2	per sq ft (window area)	\$1.50	2.0500		
Whole House Efficiency	Single Family	Hot Water	Heat Pump Water Heater	0018	Tier 3	per unit	\$1,000.00	1,766.0000	0.697	12%
Whole House Efficiency	Single Family	HVAC	Efficient ECM Fan	0019	Tier 3	per unit	\$353.76	608.1000		68%
Whole House Efficiency	Single Family	HVAC	Heat Pump Ductless Mini Split	0020	Tier 3	per unit	\$715.90	1,314.5143		
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%
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15 - Early Retirement (future)	0023	Tier 3	per ton	\$422.84	149.5400		68%
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16	0024	Tier 3	per ton	\$276.38	210.2906		68%
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement	0025	Tier 3	per ton	\$699.22	546.7556		68%
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	\$368.51	263.8941		68%
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement	0028	Tier 3	per ton	\$791.34	600.3591		68%
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement (future)	0029	Tier 3	per ton	\$422.84	263.8941		68%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15	0030	Tier 3	per ton	\$152.30	173.1924		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement	0031	Tier 3	per ton	\$796.86	2,220.0717		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement (future)	0032	Tier 3	per ton	\$644.56	173.1924		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Replace Electric Resistance Heat	0033	Tier 3	per ton	\$796.86	4,719.5584		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16	0034	Tier 3	per ton	\$304.61	233.9430		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement	0035	Tier 3	per ton	\$949.17	2,282.8214		72%
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%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17	0038	Tier 3	per ton	\$456.91	320.5254		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement	0039	Tier 3	per ton	\$1,101.47	2,369.4004		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement (future)	0040	Tier 3	per ton	\$644.56	320.5254		72%
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	0041	Tier 3	per ton	\$1,101.47	4,866.8920		72%
Income-Eligible Weatherization	Single Family	Lighting	Screw In - CFLs	0042	Kits	per lamp	\$1.70	28.2901	0.030	10%
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	per unit	\$2.80	65.4500		2%
Income-Eligible Weatherization	Single Family	Hot Water	Pipe Insulated	0045	Kits	per unit	\$9.00	74.0357	0.008	
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Showerhead	0046	Kits	per unit	\$15.00	272.9500		3%
Income-Eligible Weatherization	Single Family	Hot Water	Water Heater Tank Wrap	0047	Kits	per unit	\$18.00	131.2958	0.015	
Income-Eligible Weatherization	Single Family	Electronics	Smart Power Strip	0048	Kits	per unit	\$15.00	73.7300		80%

**Current List of DSM Measure Assumptions for KCP&L**

Published 3/4/2016

**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	End Use	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 Rebate	All	Appliances	Dehumidifier Recycle	0.0350		4	Unit removed	
Home Appliance Recycling Rebate	All	Appliances	Freezer - Recycle	0.1910		8	Unit removed	
Home Appliance Recycling Rebate	All	Appliances	Refrigerator - Recycle	0.1900		8	Unit removed	
Home Appliance Recycling Rebate	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
Whole House Efficiency	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	HVAC - Shell	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
Whole House Efficiency	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
Whole House Efficiency	Single Family	Hot Water	Heat Pump Water Heater	0.0837	2,533	13	Efficient EF	2.00
Whole House Efficiency	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
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement (future)	0.0890		12	SEER	16
Whole House Efficiency	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
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement (future)	0.1141		12	SEER	17
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15	0.0542		18	SEER	15
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement	0.8911		6	SEER	15
Whole House Efficiency	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
Whole House Efficiency	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
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	1.8036		12	SEER	17
Income-Eligible Weatherization	Single Family	Lighting	Screw In - CFLs	0.0029	938	5	CFL (watts)	14
Income-Eligible Weatherization	Single Family	Lighting	Screw In - LEDs	0.0031	938	20	LED (watts)	11.3
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Faucet Aerator	0.0101		9	Low Flow (GPM)	0.94
Income-Eligible Weatherization	Single Family	Hot Water	Pipe Insulated	0.0085	8,760	15	5 linear feet of insulation	
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Showerhead	0.0244		10	Low Flow (GPM)	2.5
Income-Eligible Weatherization	Single Family	Hot Water	Water Heater Tank Wrap	0.0150	8,760	5	Water Heater Blanket/Tank Wrap	
Income-Eligible Weatherization	Single Family	Electronics	Smart Power Strip	0.0052		5	Smart strip	

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

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

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

Count: 162

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 Rebate	All	Appliances	Dehumidifier Recycle	Unit operational		=ROUND(139,4)
Home Appliance Recycling Rebate	All	Appliances	Freezer - Recycle	Unit operational		=ROUND(1201,4)
Home Appliance Recycling Rebate	All	Appliances	Refrigerator - Recycle	Unit operational		=ROUND(1190,4)
Home Appliance Recycling Rebate	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	Single Family	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	Single Family	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	Single Family	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	Single Family	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	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement (future)	SEER	13	=ROUND(((1/R37-1/P37)*AA37*AC37/AE37,4)
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15	SEER	14	ROUND(((1/R38-1/P38)*AA38 + AG38*AB38)*AC38/AE38,4)
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement	SEER	9.12	ROUND(((1/R39-1/P39)*AA39 + AG39*AB39)*AC39/AE39,4)
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement (future)	SEER	14	ROUND(((1/R40-1/P40)*AA40 + AG40*AB40)*AC40/AE40,4)
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Replace Electric Resistance Heat	SEER	10	ROUND(((1/R41-1/P41)*AA41 + AG41*AB41)*AC41/AE41,4)
Whole House Efficiency	Single Family	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	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement (future)	SEER	14	ROUND(((1/R44-1/P44)*AA44 + AG44*AB44)*AC44/AE44,4)
Whole House Efficiency	Single Family	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	Single Family	HVAC	Heat Pump SEER 17	SEER	14	ROUND(((1/R46-1/P46)*AA46 + AG46*AB46)*AC46/AE46,4)
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement	SEER	9.12	ROUND(((1/R47-1/P47)*AA47 + AG47*AB47)*AC47/AE47,4)
Whole House Efficiency	Single Family	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	Single Family	Lighting	Screw In - CFLs	EISA tier 1 compliant Halogen (watts)	43	=ROUND(((R50-P50)/1000*M50*AC50,4)
Income-Eligible Weatherization	Single Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND(((R51-P51)/1000*M51*AC51,4)
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Faucet Aerator	Standard (GPM)	1.39	=ROUND(((R52-P52)*AC52*(AE52*365.25)*AG52,4)
Income-Eligible Weatherization	Single Family	Hot Water	Pipe Insulated	none		=ROUND(74.0356963418427,4)
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Showerhead	Standard (GPM)	4	=ROUND(((R54-P54)*AC54*(AE54*365.25)*AG54,4)
Income-Eligible Weatherization	Single Family	Hot Water	Water Heater Tank Wrap	No Blanket		=ROUND(131.295784945569,4)
Income-Eligible Weatherization	Single Family	Electronics	Smart Power Strip	Standard outlet strip		=ROUND(73.73,4)

# Current List of DSM Measure Assumptions for KCP&L

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3/4/2016

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

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

[Link to CDD](#) [Link to HDD](#)

Search using Drop-down Filters in Headers

W

X

AA

AB

Count: 162

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 Multi-Family	All	Lighting	Screw In - CFLs (Food Bank Distribution)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Home Lighting Rebate	All	Lighting	Screw In - LEDs	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Home Appliance Recycling Rebate	All	Appliances	Dehumidifier Recycle	Navigant 2013 GMO EM&V Report	7/29/2015	4/1/2016	4/1/2016		
Home Appliance Recycling Rebate	All	Appliances	Freezer - Recycle	Navigant 2013 GMO EM&V Report	7/29/2015	4/1/2016	4/1/2016		
Home Appliance Recycling Rebate	All	Appliances	Refrigerator - Recycle	Navigant 2013 GMO EM&V Report	7/29/2015	4/1/2016	4/1/2016		
Home Appliance Recycling Rebate	All	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			
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	AEG KCP&L Program Plan 2016-2019	2/1/2017	4/1/2017			
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			
Whole House Efficiency	Single Family	HVAC - Shell	Air Sealing	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC - Shell	Increased Ceiling Insulation	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
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
Whole House Efficiency	Single Family	HVAC - Shell	ENERGY STAR Windows	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		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
Whole House Efficiency	Single Family	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	HVAC	Air Conditioner SEER 15	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 15 - Early Retirement	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	Air Conditioner 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	Air Conditioner SEER 16	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16 - Early Retirement	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
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
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement (future)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	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	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	HVAC	Heat Pump SEER 16	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	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	HVAC	Heat Pump 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	Heat Pump SEER 16 - Replace Electric Resistance Heat	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	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	HVAC	Heat Pump SEER 17 - Early Retirement	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement (future)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Income-Eligible Weatherization	Single Family	Lighting	Screw In - CFLs	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
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			
Income-Eligible Weatherization	Single Family	Hot Water	Pipe Insulated	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Showerhead	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Weatherization	Single Family	Hot Water	Water Heater Tank Wrap	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Income-Eligible Weatherization	Single Family	Electronics	Smart Power Strip	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			



# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

AC

AD

AE

AF

AG

Count: 162

Measure Description			Sorting Information					
Program	Segment	End Use	Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3
Income-Eligible Multi-Family	All	Lighting	Screw In - CFLs (Food Bank Distribution)	1.04	Waste Heat Factor			
Home Lighting Rebate	All	Lighting	Screw In - LEDs	1.04	Waste Heat Factor			
Home Appliance Recycling Rebate	All	Appliances	Dehumidifier Recycle					
Home Appliance Recycling Rebate	All	Appliances	Freezer - Recycle					
Home Appliance Recycling Rebate	All	Appliances	Refrigerator - Recycle					
Home Appliance Recycling Rebate	All	Appliances	Room A/C Recycle					
Whole House Efficiency	Single Family	Lighting	Screw In - CFLs	1.04	Waste Heat Factor			
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	1.04	Waste Heat Factor			
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	1.04	Waste Heat Factor			
Whole House Efficiency	Single Family	Hot Water	Low Flow Faucet Aerator	0.0919	kWh per gallon hot water	3	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
Whole House Efficiency	Single Family	Hot Water	Water Heater Tank Wrap					
Whole House Efficiency	Single Family	Electronics	Smart Power Strip					
Whole House Efficiency	Single Family	HVAC - Shell	Air Sealing	0.00001	Cooling Coefficient	0.00001	Heating Coefficient	
Whole House Efficiency	Single Family	HVAC - Shell	Increased Ceiling Insulation	0.00046	Cooling Coefficient	0.00046	Heating Coefficient	
Whole House Efficiency	Single Family	HVAC - Shell	Increased Wall Insulation	0.00037	Cooling Coefficient	0.00037	Heating Coefficient	
Whole House Efficiency	Single Family	HVAC - Shell	ENERGY STAR Windows	0.00052	Cooling Coefficient	0.00052	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					
Whole House Efficiency	Single Family	HVAC	Heat Pump Ductless Mini Split					
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	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 16	12,000	Btu/hr	1,091	Coefficient	
Whole House Efficiency	Single Family	HVAC	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	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement	12,000	Btu/hr	1,091	Coefficient	
Whole House Efficiency	Single Family	HVAC	Air Conditioner SEER 17 - Early Retirement (future)	12,000	Btu/hr	1,091	Coefficient	
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15	12,000	Btu/hr	1,091	Coefficient	0.001796471
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement	12,000	Btu/hr	1,091	Coefficient	0.027586522
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Early Retirement (future)	12,000	Btu/hr	1,091	Coefficient	0.001796471
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 15 - Replace Electric Resistance Heat	12,000	Btu/hr	1,091	Coefficient	0.073296351
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16	12,000	Btu/hr	1,091	Coefficient	0.001796471
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement	12,000	Btu/hr	1,091	Coefficient	0.027621132
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement (future)	12,000	Btu/hr	1,091	Coefficient	0.001796471
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Replace Electric Resistance Heat	12,000	Btu/hr	1,091	Coefficient	0.073296351
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17	12,000	Btu/hr	1,091	Coefficient	0.002367442
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement	12,000	Btu/hr	1,091	Coefficient	0.028192044
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement (future)	12,000	Btu/hr	1,091	Coefficient	0.002367442
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	12,000	Btu/hr	1,091	Coefficient	0.073867331
Income-Eligible Weatherization	Single Family	Lighting	Screw In - CFLs	1.04	Waste Heat Factor			
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	3	Minutes per person per day	1.44
Income-Eligible Weatherization	Single Family	Hot Water	Pipe Insulated					
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Showerhead	0.0919	kWh per gallon hot water	3.75	Minutes per person per day	1.44
Income-Eligible Weatherization	Single Family	Hot Water	Water Heater Tank Wrap					
Income-Eligible Weatherization	Single Family	Electronics	Smart Power Strip					

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

AH

Count: 162

Measure Description				
Program	Segment	End Use	Measure Name	Quantity3 Description
Income-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	
Home Appliance Recycling Reba	All	Appliances	Room A/C Recycle	
Whole House Efficiency	Single Family	Lighting	Screw In - CFLs	
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	
Whole House Efficiency	Single Family	Lighting	Screw In - LEDs	
Whole House Efficiency	Single Family	Hot Water	Low Flow Faucet Aerator	Persons per household
Whole House Efficiency	Single Family	Hot Water	Pipe Insulated	
Whole House Efficiency	Single Family	Hot Water	Low Flow Showerhead	Persons per household
Whole House Efficiency	Single Family	Hot Water	Water Heater Tank Wrap	
Whole House Efficiency	Single Family	Electronics	Smart Power Strip	
Whole House Efficiency	Single Family	HVAC - Shell	Air Sealing	
Whole 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	
Whole 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
Whole 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
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Early Retirement (future)	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 16 - Replace Electric Resistance Heat	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Early Retirement (future)	HSPF improvement factor
Whole House Efficiency	Single Family	HVAC	Heat Pump SEER 17 - Replace Electric Resistance Heat	HSPF improvement factor
Income-Eligible Weatherization	Single Family	Lighting	Screw In - CFLs	
Income-Eligible Weatherization	Single Family	Lighting	Screw In - LEDs	
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Faucet Aerator	Persons per household
Income-Eligible Weatherization	Single Family	Hot Water	Pipe Insulated	
Income-Eligible Weatherization	Single Family	Hot Water	Low Flow Showerhead	Persons per household
Income-Eligible Weatherization	Single Family	Hot Water	Water Heater Tank Wrap	
Income-Eligible Weatherization	Single Family	Electronics	Smart Power Strip	

# Current List of DSM Measure Assumptions for KCP&L

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 / L

Measure Description							Gross Measure Value			
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
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Ceiling Insulation	0049	Weatherization	per sq ft (ceiling area)	\$0.76	0.5200		
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Duct Insulation	0050	Weatherization	per home	\$720.00	210.4900		
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Wall Insulation	0051	Weatherization	per sq ft (wall area)	\$1.32	0.7200		
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	0052	Kits	per lamp	\$1.70	28.2901	0.030	10%
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0053	Kits	per lamp	\$15.00	30.9532	0.033	10%
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0053.1	Kits	per lamp	\$15.00	33.1677	0.035	10%
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Faucet Aerator	0054	Kits	per unit	\$2.80	42.2900		1%
Income-Eligible Multi-Family	Multi-Family	Hot Water	Pipe Insulated	0055	Kits	per unit	\$2.80	74.0357	0.008	
Income-Eligible Multi-Family	Multi-Family	Hot Water	Low Flow Showerhead	0056	Kits	per unit	\$15.00	235.9900		3%
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	per unit	\$15.00	73.7300		80%
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Exit Sign	0059	Common Area	per unit	\$30.00	78.8400	0.009	100%
Income-Eligible Multi-Family	Multi-Family	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	0060	Common Area	per fixture	\$100.00	701.0069	0.216	66%
Income-Eligible Multi-Family	Multi-Family	Lighting	Low Wattage T8 Lamp	0061	Common Area	per lamp	\$2.00	26.1245	0.008	66%
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Flood Light (<15W)	0062	Common Area	per lamp	\$35.00	210.8290	0.043	0%
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	0063	Common Area	per lamp	\$3.33	204.6418	0.063	10%
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0064	Common Area	per lamp	\$25.08	217.7040	0.067	10%
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	0064.1	Common Area	per lamp	\$25.08	248.1826	0.076	10%
Residential Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	0065		per unit	\$350.00	462.0000		
Business Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	0066		per unit	\$350.00	462.0000		
Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor	0067		per sensor	\$66.00	692.6340	0.213	66%
Small Business Direct Install	Small C&I	Lighting	Interior Daylighting Controls Replacing No Controls	0067.1		per sensor	\$66.00	692.6340	0.213	66%
Small Business Direct Install	Small C&I	Lighting	LED Exit Sign	0068		per lamp	\$30.00	78.8400	0.009	100%
Small Business Direct Install	Small C&I	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	0069		per fixture	\$100.00	701.0069	0.216	66%
Small Business Direct Install	Small C&I	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	0069.1		per fixture	\$100.00	701.0069	0.216	66%
Small Business Direct Install	Small C&I	Lighting	Directional LED Bulb (≥15W)	0070		per lamp	\$50.00	230.7662	0.071	66%
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%
Small Business Direct Install	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	0072		per lamp	\$12.00	121.9142	0.038	66%
Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	0072.1		per lamp	\$12.00	121.9142	0.038	66%
Business Standard	All	Hot Water	Heat Pump Water Heater	0074		per unit	\$1,000.00	1,993.0800		12%
Business Standard	All	Hot Water	Low Flow Faucet Aerator	0075		per unit	\$8.35	131.0300		1%
Business Standard	All	Hot Water	Pipe Wrap/Insulation	0076		per unit	\$47.17	224.0000	0.026	
Business Standard	All	Hot Water	Pre-Rinse Spray Valves	0077		per unit	\$100.00	2,670.7000		
Business Standard	All	Pools	High Efficiency Pool Pump	0078		per unit	\$273.32	1,301.2478		100%
Business Standard	All	Pools	Pool Pump VSD	0079		per unit	\$579.00	2,461.4482		100%
Business Standard	All	Refrigeration	ENERGY STAR Beverage Machine	0081		per unit	\$140.00	1,752.0000		
Business Standard	All	Refrigeration	High Efficiency Reach-In Refrigerator/Freezer	0082		per unit	\$262.85	3,025.8700		
Business Standard	All	Refrigeration	Strip Curtains	0083		per unit	\$286.16	1,698.0000		100%
Business Standard	All	Refrigeration	LED Refrigerator Case Light	0084		per unit	\$133.00	373.5410	0.060	90%
Business Standard	All	Refrigeration	ECM Motors Walk-In Coolers & Freezers	0085		per unit	\$50.00	401.0000		100%
Business Standard	All	HVAC	High Efficiency PTAC/PTHP	0086		per ton	\$12.26	30.0701		91%
Business Standard	All	HVAC	Programmable Thermostat Controls	0087		per ton	\$5.90	126.0527		
Business Standard	All	HVAC	Air Source Heat Pump <65 kBtu/h	0088		per ton	\$120.00	157.6937		91%
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtu/h	0089		per ton	\$100.00	91.3304	0.112	91%
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtu/h	0090		per ton	\$120.00	81.5600	0.082	91%
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtu/h	0091		per ton	\$100.00	56.6389	0.057	81%

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Published 3/4/2016

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Measure Description								
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
Income-Eligible Multi-Family	Multi-Family	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 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 Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	1.2600		10	PCT	
Business Programmable Thermostat	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		9	Low Flow (GPM)	0.94
Business Standard	All	Hot Water	Pipe Wrap/Insulation	0.2780	8,760	6	5 linear feet of insulation	
Business Standard	All	Hot Water	Pre-Rinse Spray Valves	0.0000		5	Low Flow (GPM)	1.06
Business Standard	All	Pools	High Efficiency Pool Pump	0.1485		10	High Efficiency	
Business Standard	All	Pools	Pool Pump VSD	0.2810		10	VSD	
Business Standard	All	Refrigeration	ENERGY STAR Beverage Machine	0.1161	8,760	14	Efficient Operating Watts	200
Business Standard	All	Refrigeration	High Efficiency Reach-In Refrigerator/Freezer	0.1294		12	High Efficiency kWh/day	2.76
Business Standard	All	Refrigeration	Strip Curtains	0.1950		6	Strip Curtain	
Business Standard	All	Refrigeration	LED Refrigerator Case Light	0.0542	6,205	10	LED Display Lighting (watts)	38
Business Standard	All	Refrigeration	ECM Motors Walk-In Coolers & Freezers	0.0420		15	ECM Motor	
Business Standard	All	HVAC	High Efficiency PTAC/PTHP	0.0118		15	EER	12
Business Standard	All	HVAC	Programmable Thermostat Controls	0.0000		8	Programmable Tstat	
Business Standard	All	HVAC	Air Source Heat Pump <65 kBtu/h	0.1941	816	15	SEER	14
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtu/h	0.1241	816	15	SEER	14
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtu/h	0.0659	1,000	15	EER	14
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtu/h	0.0458	1,000	15	EER	11.7

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Q indicates default plan values that can be adjusted for unique installations. R S

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Measure Description				Algorithms		
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
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-Eligible Weatherization	Single Family	HVAC - Shell	Increased Duct Insulation	CFM50	4800	=ROUND((R58-P58)*(AA58*AC58 + AB58*AE58),4)
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-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	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	43	=ROUND((R62-P62)/1000*M62*AC62,4)
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-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	Multi-Family	Electronics	Smart Power Strip	Standard outlet strip		=ROUND(73.73,4)
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Exit Sign	Fluorescent (watts)	11.0	=ROUND((R68-P68)/1000*M68*AC68,4)
Income-Eligible Multi-Family	Multi-Family	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	Metal Halide (watts)	456.0	=ROUND((R69-P69)/1000*M69*AC69,4)
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	Lighting	LED Flood Light (<15W)	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)
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	72	=ROUND((R73-P73)/1000*M73*AC73,4)
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	EISA tier 1 compliant Halogen (watts)	72	=ROUND((R74-P74)/1000*M74*AC74,4)
Residential Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	No PCT		=ROUND(462,4)
Business Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	No PCT		=ROUND(462,4)
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&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	LED Exit Sign	Fluorescent (watts)	11.0	=ROUND((R79-P79)/1000*M79*AC79,4)
Small Business Direct Install	Small C&I	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	Metal Halide (watts)	456.0	=ROUND((R80-P80)/1000*M80*AC80,4)
Small Business Direct Install	Small C&I	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	Metal Halide (watts)	456.0	=ROUND((R81-P81)/1000*M81*AC81,4)
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	Directional LED Lamp replacing 71-110W Lamp	Incandescent (watts)	75.0	=ROUND((R83-P83)/1000*M83*AC83,4)
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)
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/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(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(2461.4482121311,4)
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(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 kBtu/h	SEER	13	ROUND(((1/R99-1/P99)*AA99 + AG99*AB99)*AC99/AE99,4)
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtu/h	SEER	13	ND(((1/R100-1/P100)*AA100 + AG100*AB100)*AC100/AE100,4)
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtu/h	EER	13	=ROUND((1/R101-1/P101)*AA101*AC101/AE101,4)
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtu/h	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
Income-Eligible Multi-Family	Multi-Family	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 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 Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	100% covered by program, \$25/yr after 1st yr	100%	462.00
Business Programmable Thermostat	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	Lighting	LED Exit Sign	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016				
Income-Eligible Multi-Family	Multi-Family	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				
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	Lighting	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	Lighting	Screw In - LEDs	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017				
Residential Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	Meta Analysis of PCT programs in midwest	11/4/2015	4/1/2016				
Business Programmable Thermostat	All	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	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017			
Small Business Direct Install	Small C&I	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	Refrigeration	High Efficiency Reach-In Refrigerator/Freezer	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016				
Business Standard	All	Refrigeration	Strip Curtains	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016				
Business Standard	All	Refrigeration	LED Refrigerator Case Light	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016				
Business Standard	All	Refrigeration	ECM Motors Walk-In Coolers & Freezers	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016				
Business Standard	All	HVAC	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				
Business Standard	All	HVAC	Air Source Heat Pump <65 kBtu/h	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249	
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtu/h	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249	
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtu/h	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249	
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtu/h	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249	

# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

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Count: 162

Measure Description				Sorting Information				
Program	Segment	End Use	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	Single Family	HVAC - Shell	Increased Duct Insulation	0.00011	Cooling Coefficient	0.00011	Heating Coefficient	
Income-Eligible Weatherization	Single Family	HVAC - Shell	Increased Wall Insulation	0.00037	Cooling Coefficient	0.00037	Heating Coefficient	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	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	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	Hot Water	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					
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	
Income-Eligible Multi-Family	Multi-Family	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 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	1.34	Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Flood Light (<15W)	1.00	Waste Heat Factor	1.00	Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - CFLs	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Income-Eligible Multi-Family	Multi-Family	Lighting	Screw In - LEDs	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Residential Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat					
Business Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat					
Small Business Direct Install	Small C&I	Lighting	Photocell Occupancy Sensor	1.41	Waste Heat Factor	1.34	Waste Heat Factor	27%
Small Business Direct Install	Small C&I	Lighting	Interior Daylighting Controls Replacing No Controls	1.41	Waste Heat Factor	1.34	Waste Heat Factor	27%
Small Business Direct Install	Small C&I	Lighting	LED Exit Sign	1.00	Waste Heat Factor	1.00	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	Directional LED Bulb (≥15W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	Directional LED Lamp replacing 71-110W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Hot Water	Heat Pump Water Heater	55	gallons used per day	0.180	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					
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					
Business Standard	All	Pools	Pool Pump VSD					
Business Standard	All	Refrigeration	ENERGY STAR Beverage Machine					
Business Standard	All	Refrigeration	High Efficiency Reach-In Refrigerator/Freezer	10.62	Refrigerated Volume (cu ft)			
Business Standard	All	Refrigeration	Strip Curtains	60.5	sqft			
Business Standard	All	Refrigeration	LED Refrigerator Case Light	40%	Savings Factor			
Business Standard	All	Refrigeration	ECM Motors Walk-In Coolers & Freezers					
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 kBtu/h	12,000	Btu/hr	2,194	Coefficient	0.00410683
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtu/h	12,000	Btu/hr	2,194	Coefficient	0.001794835
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtu/h	12,000	Btu/hr	1,071	Coefficient	
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtu/h	12,000	Btu/hr	1,071	Coefficient	



# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

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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	
Income-Eligible Multi-Family	Multi-Family	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	
Income-Eligible Multi-Family	Multi-Family	Lighting	Low Wattage T8 Lamp	
Income-Eligible Multi-Family	Multi-Family	Lighting	LED Flood Light (<15W)	
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	
Residential Programmable Thermostat	All	HVAC	Advanced Programmable Communicating Thermostat	
Business Programmable Thermostat	All	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	Small C&I	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	
Small Business Direct Install	Small C&I	Lighting	Remove 4ft Lamp from T8 or T12 system	
Business Standard	All	Hot Water	Heat Pump Water Heater	
Business Standard	All	Hot Water	Low Flow Faucet Aerator	
Business Standard	All	Hot Water	Pipe Wrap/Insulation	
Business Standard	All	Hot Water	Pre-Rinse Spray Valves	
Business Standard	All	Pools	High Efficiency Pool Pump	
Business Standard	All	Pools	Pool Pump VSD	
Business Standard	All	Refrigeration	ENERGY STAR Beverage Machine	
Business Standard	All	Refrigeration	High Efficiency Reach-In Refrigerator/Freezer	
Business Standard	All	Refrigeration	Strip Curtains	
Business Standard	All	Refrigeration	LED Refrigerator Case Light	
Business Standard	All	Refrigeration	ECM Motors Walk-In Coolers & Freezers	
Business Standard	All	HVAC	High Efficiency PTAC/PTHP	HSPF improvement factor
Business Standard	All	HVAC	Programmable Thermostat Controls	
Business Standard	All	HVAC	Air Source Heat Pump <65 kBtu/h	HSPF improvement factor
Business Standard	All	HVAC	Air Source Heat Pump 65<135 kBtu/h	HSPF improvement factor
Business Standard	All	HVAC	Air Sourced Air Conditioner <65 kBtu/h	
Business Standard	All	HVAC	Air Sourced Air Conditioner 65<135 kBtu/h	

# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

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

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Measure Description							Gross Measure Value			
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
Business Standard	All	HVAC	Air Sourced Air Conditioner 135<240 kBtuh	0092		per ton	\$100.00	80.7362	0.081	81%
Business Standard	All	HVAC	Air Sourced Air Conditioner >240 kBtuh	0093		per ton	\$100.00	70.6853	0.071	81%
Business Standard	All	Lighting	Directional LED Bulb (<15W)	0096		per lamp	\$40.00	143.6846	0.044	66%
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	0096.1		per lamp	\$40.00	143.6846	0.044	66%
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	0097		per lamp	\$50.00	230.7662	0.071	66%
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	0097.1		per lamp	\$50.00	230.7662	0.071	66%
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	0098		per fixture	\$200.00	1,084.1659	0.334	66%
Business Standard	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	0098.1		per fixture	\$200.00	1,084.1659	0.334	66%
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	0099		per fixture	\$225.00	648.7579	0.200	66%
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	0100		per fixture	\$100.00	701.0069	0.216	66%
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	0100.1		per fixture	\$100.00	701.0069	0.216	66%
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	0101		per fixture	\$100.00	404.9294	0.125	66%
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	0101.1		per fixture	\$100.00	404.9294	0.125	66%
Business Standard	All	Lighting	LED Exit Sign	0102		per lamp	\$30.00	78.8400	0.009	100%
Business Standard	All	Lighting	LED Flood Light (<15W)	0103		per lamp	\$35.00	210.8290	0.043	0%
Business Standard	All	Lighting	LED Flood Light (≥15W)	0104		per lamp	\$45.00	236.3246	0.048	0%
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)	0106		per fixture	\$36.17	116.6893	0.036	66%
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)	0107		per fixture	\$22.55	70.1007	0.022	66%
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)	0108		per fixture	\$55.50	149.7804	0.046	66%
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	0109		per lamp	\$12.00	121.9142	0.038	66%
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system	0109.1		per lamp	\$12.00	121.9142	0.038	66%
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	0110		per lamp	\$16.00	252.5366	0.078	66%
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	0110.1		per lamp	\$16.00	252.5366	0.078	66%
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	0112		per lamp	\$28.75	84.4692	0.026	66%
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	0112.1		per lamp	\$28.75	84.4692	0.026	66%
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	0113		per lamp	\$38.75	130.1870	0.040	66%
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	0113.1		per lamp	\$38.75	130.1870	0.040	66%
Business Standard	All	Lighting	Photocell Occupancy Sensor	0114		per sensor	\$66.00	692.6340	0.213	66%
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	0114.1		per sensor	\$66.00	692.6340	0.213	66%
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	0115		per sensor	\$42.00	457.1784	0.141	66%
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	0115.1		per sensor	\$42.00	457.1784	0.141	66%
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (20ft Diameter)	0116		per Fan	\$4,150.00	6,577.0000		
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (22ft Diameter)	0117		per Fan	\$4,180.00	8,543.0000		
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (24ft Diameter)	0118		per Fan	\$4,225.00	10,018.0000		
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"	0119		per unit	\$57.00	1,086.6380		
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"	0120		per unit	\$42.00	393.4380		
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve	0121		per unit	\$700.00	1,969.6500		
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 1 shift weekdays	0122		per HP	\$140.37	329.0000		
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 2 shift weekdays	0123		per HP	\$140.37	658.0000		
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays	0124		per HP	\$140.37	987.0000		
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays plus weekends	0125		per HP	\$140.37	1,385.3000		
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy	0137		per ton	\$400.00	420.0000		

**Current List of DSM Measure Assumptions for KCP&L**

Published 3/4/2016

**Valid for Program Implementation Dates:** Early 2016 to

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Count: 162

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Measure Description								
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	HVAC	Air Sourced Air Conditioner 135<240 kBtuh	0.0653	1,000	15	EER	11.7
Business Standard	All	HVAC	Air Sourced Air Conditioner >240 kBtuh	0.0571	1,000	15	EER	10.5
Business Standard	All	Lighting	Directional LED Bulb (<15W)	0.0292	3,088	11	LED (watts)	12.0
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	0.0292	3,088	11	LED (watts)	12.0
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	0.0469	3,088	11	LED (watts)	22.0
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	0.0469	3,088	11	LED (watts)	22.0
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	0.2202	3,088	15	High Bay T8 (>4 lamps, wattage)	206.0
Business Standard	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	0.2202	3,088	15	High Bay T8 (>4 lamps, wattage)	206.0
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	0.1318	3,088	15	High Bay T8 (≤4 lamps, wattage)	146.0
Business Standard	All	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
Business Standard	All	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
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	0.0822	3,088	15	High Bay T5 (≤4 lamps, wattage)	117.0
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic 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	All	Lighting	LED Flood Light (<15W)	0.0000	4,903	10	LED (watts)	8.7
Business Standard	All	Lighting	LED Flood Light (≥15W)	0.0000	4,903	10	LED (watts)	16.20
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)	0.0237	3,088	11	Linear style LED (watts)	32
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)	0.0142	3,088	11	Linear style LED (watts)	45
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)	0.0304	3,088	11	Linear style LED (watts)	54
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	0.0248	3,088	11	Remove T8	0
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system	0.0248	3,088	11	Remove T8	0
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	0.0513	3,088	11	Remove T8	0
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	0.0513	3,088	11	Remove T8	0
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	0.0172	3,088	8	LED (watts)	10
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	0.0172	3,088	8	LED (watts)	10
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	0.0264	3,088	8	LED (watts)	23
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	0.0264	3,088	8	LED (watts)	23
Business Standard	All	Lighting	Photocell Occupancy Sensor	0.1407	3,088	8	Photocell Occupancy Sensor	587
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	0.1407	3,088	8	Photocell Occupancy Sensor	587
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	0.0929	3,088	8	Wall-Mount Occupancy Sensor	350
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	0.0929	3,088	8	Wall-Mount Occupancy Sensor	350
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (20ft Diameter)	2.4000		10		
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (22ft Diameter)	3.1000		10		
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (24ft Diameter)	3.7000		10		
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"	0.5110		15		
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"	0.1630		15		
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve	0.3000		15		
Business Standard	All	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	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays	0.1582		10		
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays plus weekends	0.1582		10		
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy	0.1500		15		

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indicates default plan values that can be adjusted for 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	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)
Business Standard	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps 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)
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	Metal Halide (watts)	456.0	=ROUND((R112-P112)/1000*M112*AC112,4)
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	Metal Halide (watts)	456.0	=ROUND((R113-P113)/1000*M113*AC113,4)
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	Metal Halide (watts)	210.0	=ROUND((R114-P114)/1000*M114*AC114,4)
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic 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	Pumps/Fans	High Volume Low Speed Fans (20ft Diameter)			=ROUND(6577,4)
Business Standard	All	Pumps/Fans	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	Pumps/Fans	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	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays			=ROUND(987,4)
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays plus weekends			=ROUND(1385.3,4)
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy			=ROUND(420,4)

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T U V

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%	143.68
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	per unit	100%	143.68
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	per unit	100%	230.77
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	per unit	100%	230.77
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	per unit	100%	1084.17
Business Standard	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	per unit	100%	1084.17
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	per unit	100%	648.76
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	per unit	100%	701.01
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	100%	701.01
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	per unit	100%	404.93
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	100%	404.93
Business Standard	All	Lighting	LED Exit Sign	per unit	100%	78.84
Business Standard	All	Lighting	LED Flood Light (<15W)	per unit	100%	210.83
Business Standard	All	Lighting	LED Flood Light (≥15W)	per unit	100%	236.32
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%	149.78
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	per unit	100%	121.91
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system	per unit	100%	121.91
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	per unit	100%	252.54
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	per unit	100%	252.54
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	per unit	100%	84.47
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	per unit	100%	84.47
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	per unit	100%	130.19
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	per unit	100%	130.19
Business Standard	All	Lighting	Photocell Occupancy Sensor	per unit	100%	692.63
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	per unit	100%	692.63
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	per unit	100%	457.18
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	per unit	100%	457.18
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (20ft Diameter)		100%	6,577.00
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (22ft Diameter)		100%	8,543.00
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (24ft Diameter)		100%	10,018.00
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"		100%	1,086.64
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"		100%	393.44
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve		100%	1,969.65
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 1 shift weekdays		100%	329.00
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 2 shift weekdays		100%	658.00
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays		100%	987.00
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays plus weekends		100%	1,385.30
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy		100%	420.00

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[Link to CDD](#) [Link to HDD](#)

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AA

AB

Count: 162

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	HVAC	Air Sourced Air Conditioner 135<240 kBtuh	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016		1325	5249
Business Standard	All	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	Lighting	Directional LED Bulb (<15W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Lighting	Directional LED Bulb (≥15W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	Directional LED Lamp replacing 71-110W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	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		
Business Standard	All	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			
Business Standard	All	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		
Business Standard	All	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			
Business Standard	All	Lighting	LED Exit Sign	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Lighting	LED Flood Light (<15W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Lighting	LED Flood Light (≥15W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016			
Business Standard	All	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		
Business Standard	All	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	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Lighting	Photocell Occupancy Sensor	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	AEG KCP&L Program Plan 2016-2018	7/29/2015	4/1/2016	3/31/2017		
Business Standard	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017			
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (20ft Diameter)	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (22ft Diameter)	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	High Volume Low Speed Fans (24ft Diameter)	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/4"	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 1 shift weekdays	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 2 shift weekdays	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays	IL TRM		4/1/2016			
Business Standard	All	Pumps/Fans	Variable Speed Drive Compressor - 3 shift weekdays plus weekends	IL TRM		4/1/2016			
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy	BPA		4/1/2016			

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Measure Description				Reporting Information				
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	
Business Standard	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps 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	
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	LED Exit Sign	1.00	Waste Heat Factor	1.00	Waste Heat Factor	
Business Standard	All	Lighting	LED Flood Light (<15W)	1.00	Waste Heat Factor	1.00	Waste Heat Factor	
Business Standard	All	Lighting	LED Flood Light (≥15W)	1.00	Waste Heat Factor	1.00	Waste Heat Factor	
Business Standard	All	Lighting	LED Recessed Fixture (1 ft x 4 ft)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 2 ft)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	LED Recessed Fixture (2 ft x 4 ft)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Lighting Optimization - Remove 4ft Lamp from T8 System	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Remove 4ft Lamp from T8 or T12 system	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Remove 8ft Lamp from T8 or T12 System	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Omnidirectional LED Bulb (<10W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Omnidirectional LED Bulb (≥10W)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Business Standard	All	Lighting	Photocell Occupancy Sensor	1.41	Waste Heat Factor	1.34	Waste Heat Factor	27%
Business Standard	All	Lighting	Interior Daylighting Controls Replacing No Controls	1.41	Waste Heat Factor	1.34	Waste Heat Factor	27%
Business Standard	All	Lighting	Wall-Mount Occupancy Sensor	1.41	Waste Heat Factor	1.34	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)					
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"					
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"					
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve					
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					
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy					

# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

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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)	
Business Standard	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	
Business Standard	All	Lighting	High Bay Fluorescent Fixture (HP T8 ≤4 lamps)	
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 >4 lamps)	
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	
Business Standard	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	
Business Standard	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic 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	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"	
Business Standard	All	Pumps/Fans	Compressed Air - Engineered Nozzle 1/8"	
Business Standard	All	Pumps/Fans	Compressed Air - No Loss Condensate Drain/Valve	
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	
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy	



# Current List of DSM Measure Assumptions for KCP&L

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Search using Drop-down Filters in Headers

Column Label:

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Count: 162

Column Equation:

see column R

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Measure Description							Gross Measure Value			
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
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, > 4000 annual hours occupancy	0138		per ton	\$400.00	700.0000		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation	0139		per Pump	\$690.79	1,312.0900		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation	0140		per Pump	\$1,324.75	6,555.3600		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation	0142		per Pump	\$690.79	359.0300		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation	0143		per Pump	\$1,324.75	1,793.5800		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation	0144		per Pump	\$1,844.58	7,174.3300		
Business Standard	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	0146	Annual Operating	per fixture	\$136.00	902.2800	0.10	100%
Business Standard	All	Lighting	Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W Fixture	0146.1	Annual Operating	per fixture	\$136.00	902.2800	0.10	100%
Business Standard	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	0147	Annual Operating	per fixture	\$105.00	981.1200	0.11	100%
Business Standard	All	Lighting	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101W-175W Fixture	0147.1	Annual Operating	per fixture	\$105.00	981.1200	0.11	100%
Business Standard	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	0148	Annual Operating	per fixture	\$74.00	613.2000	0.07	100%
Business Standard	All	Lighting	Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W Fixture	0148.1	Annual Operating	per fixture	\$74.00	613.2000	0.07	100%
Business Standard	All	Lighting	Exterior LED replacing >400W HID	0149	Annual Operating	per fixture	\$1,182.50	2,661.7000	0.62	0%
Business Standard	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	0149.1	Annual Operating	per fixture	\$1,182.50	2,661.7000	0.62	0%
Business Standard	All	Lighting	Exterior LED replacing 251-400W HID	0150	Annual Operating	per fixture	\$535.00	1,191.1000	0.28	0%
Business Standard	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	0150.1	Annual Operating	per fixture	\$535.00	1,191.1000	0.28	0%
Business Standard	All	Lighting	Exterior LED replacing 175-250W HID	0151	Annual Operating	per fixture	\$398.80	602.0000	0.14	0%
Business Standard	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	0151.1	Annual Operating	per fixture	\$398.80	602.0000	0.14	0%
Business Standard	All	Lighting	Exterior LED replacing <175W HID	0152	Annual Operating	per fixture	\$299.75	490.2000	0.11	0%
Business Standard	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	0152.1	Annual Operating	per fixture	\$299.75	490.2000	0.11	0%
Business Standard	All	Lighting	Parking Garage LED replacing >175W HID	0153	Annual Operating	per fixture	\$520.00	902.2800	0.10	100%
Business Standard	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	0153.1	Annual Operating	per fixture	\$520.00	902.2800	0.10	100%
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID	0154	Annual Operating	per fixture	\$380.00	981.1200	0.11	100%
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	0154.1	Annual Operating	per fixture	\$380.00	981.1200	0.11	100%
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID	0155	Annual Operating	per fixture	\$320.00	613.2000	0.07	100%
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	0155.1	Annual Operating	per fixture	\$320.00	613.2000	0.07	100%
Business Standard	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (Eligible for lighting optimization if applicable to project)	0166	Annual Operating	per lamp	\$24.00	54.4896	0.02	75%
Business Standard	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	0166.1	Annual Operating	per lamp	\$24.00	54.4896	0.02	75%
Business Standard	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	0167	Annual Operating	per lamp	\$22.00	34.6752	0.01	75%

**Current List of DSM Measure Assumptions for KCP&L**

Published 3/4/2016

**Valid for Program Implementation Dates: Early 2016 to**

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Count: 162

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Measure Description								
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	HVAC	Advanced Rooftop Unit Controls, > 4000 annual hours occupancy	0.1500		15		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation	0.2280		15		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation	1.1390		15		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation	0.0000		15		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation	0.0000		15		
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, >500 Watts Max Input, Heating 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
Business Standard	All	Lighting	Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W 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
Business Standard	All	Lighting	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 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
Business Standard	All	Lighting	Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W 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
Business Standard	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base 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
Business Standard	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul 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
Business Standard	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul 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
Business Standard	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base 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	Parking Garage LED replacing > 175W Fixture or Mogul 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
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul 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
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	0.0700	8,760	6	LED Parking Garage Lighting Fixtures	54
Business Standard	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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
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

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

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

Valid for Program Implementation Dates: **Early 2016** to

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Count: 162

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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	Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation			=ROUND(1312.09,4)
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation			=ROUND(6555.36,4)
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation			=ROUND(359.03,4)
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation			=ROUND(1793.58,4)
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation			=ROUND(7174.33,4)
Business Standard	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	200W - 250W HID Fixture	258	=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	≤ 100 W HID Fixture	124	=ROUND((R155-P155)*(AC155)*M155/1000,4)
Business Standard	All	Lighting	Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W Fixture	≤ 100 W HID Fixture	124	=ROUND((R156-P156)*(AC156)*M156/1000,4)
Business Standard	All	Lighting	Exterior LED replacing >400W HID	> 400 W HID Fixture	1031	=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	All	Lighting	Exterior LED replacing 251-400W HID	320 W Pulse Start and 400W MH/HPS Fix	444	=ROUND((R159-P159)*(AC159)*M159/1000,4)
Business Standard	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	320 W Pulse Start and 400W MH/HPS Fix	444	=ROUND((R160-P160)*(AC160)*M160/1000,4)
Business Standard	All	Lighting	Exterior LED replacing 175-250W HID	175 W HID - 250 W HID Fixture	222	=ROUND((R161-P161)*(AC161)*M161/1000,4)
Business Standard	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	175 W HID - 250 W HID Fixture	222	=ROUND((R162-P162)*(AC162)*M162/1000,4)
Business Standard	All	Lighting	Exterior LED replacing <175W HID	< 175 W HID Fixture	151	=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	200W - 250W HID Fixture	258	=ROUND((R165-P165)*(AC165)*M165/1000,4)
Business Standard	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	200W - 250W HID Fixture	258	=ROUND((R166-P166)*(AC166)*M166/1000,4)
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID	125W - 175W HID Fixture	196	=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	≤ 100 W HID Fixture	124	=ROUND((R169-P169)*(AC169)*M169/1000,4)
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	≤ 100 W HID Fixture	124	=ROUND((R170-P170)*(AC170)*M170/1000,4)
Business Standard	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (Eligible for lighting optimization if applicable to project)	32W 4-ft T8 with Electronic NBF Ballast	29	=ROUND((R171-P171)*(AC171)*M171/1000,4)
Business Standard	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	32W 4-ft T8 with Electronic NBF Ballast	29	=ROUND((R172-P172)*(AC172)*M172/1000,4)
Business Standard	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((R173-P173)*(AC173)*M173/1000,4)

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

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Count: 162

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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)
Business Standard	All	HVAC	Advanced Rooftop Unit Controls, > 4000 annual hours occupancy		100%	700.00
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation		100%	1,312.09
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation		100%	6,555.36
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation		100%	359.03
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation		100%	1,793.58
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, >500 Watts Max Input, Heating 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
Business Standard	All	Lighting	Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W 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
Business Standard	All	Lighting	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 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	Lighting	Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W Fixture	per unit	100%	613
Business Standard	All	Lighting	Exterior LED replacing >400W HID	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	2,662
Business Standard	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base 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
Business Standard	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul 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
Business Standard	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul 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
Business Standard	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base 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
Business Standard	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul 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
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul 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
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	per unit	100%	613
Business Standard	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

[Link to CDD](#) [Link to HDD](#)

Search using Drop-down Filters in Headers

W

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AA

AB

Count: 162

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	HVAC	Advanced Rooftop Unit Controls, > 4000 annual hours occupancy	BPA		4/1/2016				
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation	Focus On Energy (WI), Grundfos		4/1/2016				
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation	Focus On Energy (WI), Grundfos		4/1/2016				
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation	Focus On Energy (WI),		4/1/2016				
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation	Focus On Energy (WI),		4/1/2016				
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation	Focus On Energy (WI),		4/1/2016				
Business Standard	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W HID	IN TRM	11/4/2015	4/1/2016	3/31/2017			
Business Standard	All	Lighting	Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W Fixture	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101W-175W Fixture	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W Fixture	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Exterior LED replacing >400W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Exterior LED replacing 251-400W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Exterior LED replacing 175-250W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Exterior LED replacing <175W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Parking Garage LED replacing >175W HID	IN TRM	11/4/2015	4/1/2016	3/31/2017			
Business Standard	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID	IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (Eligible for lighting optimization if applicable to project)	Weighted Average using IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	Weighted Average using IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	Weighted Average using IN TRM		4/1/2016	3/31/2017			

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

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Count: 162

			Measure Description	Reporting 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					
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation					
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation					
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation					
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation					
Business Standard	All	Pumps/Fans	Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation					
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	
Business Standard	All	Lighting	Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W 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	
Business Standard	All	Lighting	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101W-175W Fixture	1.00	Waste Heat Factor_Energy	1.00	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	
Business Standard	All	Lighting	Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W Fixture	1.00	Waste Heat Factor_Energy	1.00	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	
Business Standard	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	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	
Business Standard	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	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	
Business Standard	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	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	
Business Standard	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	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	
Business Standard	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Business Standard	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Business Standard	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (Eligible for lighting optimization if applicable to project)	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
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	
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	

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

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Search using Drop-down Filters in Headers

AH

Count: 162

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

# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

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 Value			
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
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	per 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%
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or 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	0172.1	Annual Operating	per fixture	\$170.00	257.8703	0.08	75%
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0173	Annual Operating	per fixture	\$155.00	204.7266	0.06	75%
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0173.1	Annual Operating	per fixture	\$155.00	204.7266	0.06	75%
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	0174	Annual Operating	per door	\$230.00	594.9354	0.15	92%
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	0174.1	Annual Operating	per door	\$230.00	594.9354	0.15	92%
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	0175	Annual Operating	per door	\$230.00	641.3488	0.16	92%
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	per 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	per fixture	\$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	per fixture	\$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	0.067	70%
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	0181		per fixture	\$220.00	1,478.4696	0.322	78%
Small Business Direct Install	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	0181.1		per fixture	\$220.00	1,478.4696	0.322	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%



# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

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Count: 162

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Measure Description								
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
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	0.1450	6,205	8	LED Freezer (Low Temp) Case Light Fixt	34
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 21W	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 21W	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	0.2508	4,369	12	High Bay T8 (>4 lamps, wattage)	240
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	0.1150	4,369	12	High Bay T5 (≤4 lamps, wattage)	110
Small Business Direct Install	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	0.1150	4,369	12	High Bay T5 (≤4 lamps, wattage)	110
Small Business Direct Install	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	4,128	12	Remove T8	0
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (<10W)	0.0348	3,750	7	LED (watts)	8
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	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	0.0610	3,933	7	LED (watts)	13
Small Business Direct Install	All	Lighting	Wall-Mount Occupancy Sensor	0.0707	4,128	8	Wall-Mount Occupancy Sensor	185
Small Business Direct Install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	0.0707	4,128	8	Wall-Mount Occupancy Sensor	185

# Current List of DSM Measure Assumptions for KCP&L

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indicates default plan values that can be adjusted for 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	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)
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R181-P181)*(AC181)*M181/1000,4)
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R182-P182)*(AC182)*M182/1000,4)
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R183-P183)*(AC183)*M183/1000,4)
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R184-P184)*(AC184)*M184/1000,4)
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	2X2 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R185-P185)*(AC185)*M185/1000,4)
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or 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)
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	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)	Metal Halide (watts)	220	=ROUND((R201-P201)*(AC201)*M201/1000,4)
Small Business Direct Install	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic 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((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((R206-P206)/1000*M206*AC206,4)
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (≥10W)	EISA tier 1 compliant Halogen (watts)	78	=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	All	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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T U V

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	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	per unit	100%	35
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	200
Business Standard	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	100%	200
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	258
Business Standard	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	100%	258
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	195
Business Standard	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	100%	195
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	210
Business Standard	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	100%	210
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	258
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	100%	258
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	205
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	100%	205
Business Standard	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	595
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	per unit	100%	595
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	641
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	per unit	100%	641
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	195
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	per unit	100%	195
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	322
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	per unit	100%	322
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	512
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	per unit	100%	512
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	per unit	100%	277.28
Small Business Direct Install	All	Lighting	Directional LED Lamp replacing 50-70W Lamp	per unit	100%	277.28
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture (HP T8 >4 lamps)	per unit	100%	1,478.47
Small Business Direct Install	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	per unit	100%	1,478.47
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	per unit	100%	677.63
Small Business Direct Install	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	100%	677.63
Small Business Direct Install	All	Lighting	Lighting Optimization - Remove 8ft Lamp from T8 System	per unit	100%	337.59
Small Business Direct Install	All	Lighting	Remove 8ft Lamp from T8 or T12 System	per unit	100%	337.59
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (<10W)	per unit	100%	211.50
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 40-60W Lamp	per unit	100%	211.50
Small Business Direct Install	All	Lighting	Omnidirectional LED Bulb (≥10W)	per unit	100%	360.46
Small Business Direct Install	All	Lighting	Omnidirectional LED Lamp replacing 61-100W Lamp	per unit	100%	360.46
Small Business Direct Install	All	Lighting	Wall-Mount Occupancy Sensor	per unit	100%	323.04
Small Business Direct Install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	per unit	100%	323.04

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[Link to CDD](#) [Link to HDD](#)

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AA

AB

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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				
Business Standard	All	Lighting	LED 2X4 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 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				
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	IL TRM		4/1/2016	3/31/2017			
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	IL TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	Weighted Average using IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	Weighted Average using IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 61-100W Fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017				
Business Standard	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	Weighted Average using IN TRM		4/1/2016	3/31/2017			
Business Standard	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	Weighted Average using IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	Directional LED Bulb (<15W)	AEG KCP&L Program Plan 2016-2018	2/11/2016	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				
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			
Small Business Direct Install	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 lamps)	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017			
Small Business Direct Install	All	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	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				
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				
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 61-100W Lamp	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017				
Small Business Direct Install	All	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				

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AD

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AF

AG

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			Measure Description	Reporting Information				
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 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	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 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	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 fixture	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED 2X2 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 Refrigerated Case Lights (4, 5, and 6-foot)	1.41	Waste Heat Factor_Energy	1.41	Waste Heat Factor_Demand	
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	1.41	Waste Heat Factor_Energy	1.41	Waste Heat Factor_Demand	
Business Standard	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	1.52	Waste Heat Factor_Energy	1.52	Waste Heat Factor_Demand	
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	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)	1.41	Waste Heat Factor	1.34	Waste Heat Factor	
Small Business Direct Install	All	Lighting	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	1.41	Waste Heat Factor	1.34	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	1.34	Waste Heat Factor	30%

# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

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Count: 162

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	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	
Business Standard	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	
Business Standard	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or 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)	
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	
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)	
Small Business Direct Install	All	Lighting	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	
Small Business Direct Install	All	Lighting	High Bay Fluorescent Fixture w/ HE Electronic Ballast (T5 ≤4 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
Small Business Direct Install	All	Lighting	Occupancy or Vacancy Sensor Replacing No Controls	ESF

# Current List of DSM Measure Assumptions for KCP&L

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Column Label:

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Count: 162

Column Equation:

see column R

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Measure Description							Gross Measure Value			
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%
Small Business Direct Install	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base 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%
Small Business Direct Install	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul 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%
Small Business Direct Install	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul 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%
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base 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%
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul 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%
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul 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%
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	0200.1		per fixture	\$320.00	613.2000	0.070	100%
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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%
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0206		per fixture	\$180.00	209.6802	0.063	75%
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0206.1		per fixture	\$180.00	209.6802	0.063	75%
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0207		per fixture	\$170.00	257.8703	0.078	75%

**Current List of DSM Measure Assumptions for KCP&L**

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Count: 162

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Measure Description								
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
Small Business Direct Install	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	412
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	167
Small Business Direct Install	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul 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
Small Business Direct Install	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	82
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	37
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	0.0000	4,300	12	LED Exterior Lighting Fixtures (Includes	37
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	0.1030	8,760	6	LED Parking Garage Lighting Fixtures	155
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul 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	84
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul 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
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	0.0700	8,760	6	LED Parking Garage Lighting Fixtures	54
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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
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
Small Business Direct Install	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
Small Business Direct Install	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
Small Business Direct Install	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



# Current List of DSM Measure Assumptions for KCP&L

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

Valid for Program Implementation Dates: **Early 2016** to

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Count: 162



Measure Description				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)
Small Business Direct Install	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base 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)
Small Business Direct Install	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul 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)
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	< 175 W HID Fixture	151	=ROUND((R224-P224)*(AC224)*M224/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	200W - 250W HID Fixture	258	=ROUND((R225-P225)*(AC225)*M225/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	200W - 250W HID Fixture	258	=ROUND((R226-P226)*(AC226)*M226/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	125W - 175W HID Fixture	196	=ROUND((R227-P227)*(AC227)*M227/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	125W - 175W HID Fixture	196	=ROUND((R228-P228)*(AC228)*M228/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	≤ 100 W HID Fixture	124	=ROUND((R229-P229)*(AC229)*M229/1000,4)
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	≤ 100 W HID Fixture	124	=ROUND((R230-P230)*(AC230)*M230/1000,4)
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (Eligible for lighting optimization if applicable to project)	32W 4-ft T8 with Electronic NBF Ballast	29	=ROUND((R231-P231)*(AC231)*M231/1000,4)
Small 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)
Small 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)
Small 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)
Small 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)
Small 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)
Small 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)
Small 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)
Small 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)
Small 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)
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R241-P241)*(AC241)*M241/1000,4)
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	1X4 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R242-P242)*(AC242)*M242/1000,4)
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R243-P243)*(AC243)*M243/1000,4)

# Current List of DSM Measure Assumptions for KCP&L

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Count: 162

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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)
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	All	Lighting	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	per unit	100%	902.28
Small Business Direct Install	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%	981.12
Small Business Direct Install	All	Lighting	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W	per unit	100%	981.12
Small Business Direct Install	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%	613.20
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
Small Business Direct Install	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base 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
Small Business Direct Install	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul 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
Small Business Direct Install	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul 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
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base 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
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul 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
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul 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
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	per unit	100%	613.20
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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	Approximately \$0.15/kWh; Keeping equitable with	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
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	209.68
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	100%	209.68
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	257.87

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

[Link to CDD](#) [Link to HDD](#)

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W

X

AA

AB

Count: 162

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	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				
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			
Small Business Direct Install	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017			
Small Business Direct Install	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017			
Small Business Direct Install	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017			
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	IN TRM	11/4/2015	4/1/2016	3/31/2017			
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017			
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	IN TRM	1/0/1900	4/1/2016	3/31/2017			
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	IN TRM	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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				
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 2-ft T8, T12 or T5 lamp	Weighted Average using IN TRM	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				
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				
Small Business Direct Install	All	Lighting	LED 1X4 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 1X4 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 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Weighted Average using IN TRM	1/0/1900	4/1/2016	3/31/2017			

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

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Count: 162

Measure Description			Porting Information					
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	Exterior LED replacing 251-400W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Exterior LED replacing 251W-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	Exterior LED replacing 175-250W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul 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	
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul 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 >175W HID	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul 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	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul 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	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	1.00	Waste Heat Factor_Energy	1.00	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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	
Small Business Direct Install	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	
Small Business Direct Install	All	Lighting	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Small Business Direct Install	All	Lighting	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Small Business Direct Install	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	
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Small Business Direct Install	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	
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Small Business Direct Install	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	
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	1.20	Waste Heat Factor_Energy	1.50	Waste Heat Factor_Demand	
Small Business Direct Install	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	
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	

# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

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Count: 162

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	
Small Business Direct Install	All	Lighting	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Exterior LED replacing 251-400W HID	
Small Business Direct Install	All	Lighting	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Exterior LED replacing 175-250W HID	
Small Business Direct Install	All	Lighting	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Exterior LED replacing <175W HID	
Small Business Direct Install	All	Lighting	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing >175W HID	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W HID	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W HID	
Small Business Direct Install	All	Lighting	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	
Small Business Direct Install	All	Lighting	LED linear replacement lamp replacing a 4' T8, T12, or T5 lamp (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	All	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	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO	
Small Business Direct Install	All	Lighting	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO	
Small Business Direct Install	All	Lighting	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	
Small Business Direct Install	All	Lighting	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	

# Current List of DSM Measure Assumptions for KCP&L

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

I

J

K

Count: 162

Column Equation:

see column R

= H / L

Measure Description							Gross Measure Value			
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	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	0207.1		per fixture	\$170.00	257.8703	0.078	75%
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	0208		per fixture	\$155.00	204.7266	0.062	75%
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or 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%
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent 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%
Small Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent 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%
Business Standard	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	0226		per fixture	\$100.00	806.6286	0.176	83%
Business Standard	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	0227		per fixture	\$150.00	1,096.0297	0.239	83%
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	0228		per fixture	\$200.00	1,711.7767	0.373	83%
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	0229		per fixture	\$350.00	4,482.6382	0.976	83%

**Current List of DSM Measure Assumptions for KCP&L**

Published 3/4/2016

**Valid for Program Implementation Dates:** **Early 2016** to

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Count: 162

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Measure Description								
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
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	0.0882	6,205	8	LED Refrigerated (Medium Temp) Case	34
Small Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	0.0951	6,205	8	LED Freezer (Low Temp) Case Light Fixt	34
Small Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent 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 21W	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 21W	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

# Current List of DSM Measure Assumptions for KCP&L

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indicates default plan values that can be adjusted for 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
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	2X4 Troffer or Linear Ambient T8, T12 or	98	=ROUND((R244-P244)*(AC244)*M244/1000,4)
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	2X2 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R245-P245)*(AC245)*M245/1000,4)
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	2X2 Troffer or Linear Ambient T8, T12 or	77	=ROUND((R246-P246)*(AC246)*M246/1000,4)
Small 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 Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R248-P248)*(AC248)*M248/1000,4)
Small 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)
Small Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	Linear Fluorescent T12 and T8 Fixtures	102	=ROUND((R250-P250)*(AC250)*M250/1000,4)
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	Incandescent and Halogen Downlights <	51	=ROUND((R251-P251)*(AC251)*M251/1000,4)
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 45-60W Fixture	Incandescent and Halogen Downlights <	51	=ROUND((R252-P252)*(AC252)*M252/1000,4)
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	Incandescent and Halogen Downlights 10	84	=ROUND((R253-P253)*(AC253)*M253/1000,4)
Small 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)
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	Incandescent, HID and Halogen Downligh	133	=ROUND((R255-P255)*(AC255)*M255/1000,4)
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	Incandescent, HID and Halogen Downligh	133	=ROUND((R256-P256)*(AC256)*M256/1000,4)
Small Business Direct Install	All	Lighting	LED Low Bay 30-70W	Pulse Start Metal Halide (watts)	201	=ROUND((R257-P257)*(AC257)*M257/1000,4)
Small Business Direct Install	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	Pulse Start Metal Halide (watts)	201	=ROUND((R258-P258)*(AC258)*M258/1000,4)
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W	Pulse Start Metal Halide (watts)	288	=ROUND((R259-P259)*(AC259)*M259/1000,4)
Small Business Direct Install	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	Pulse Start Metal Halide (watts)	288	=ROUND((R260-P260)*(AC260)*M260/1000,4)
Small Business Direct Install	All	Lighting	LED High Bay 111-175W	Pulse Start Metal Halide (watts)	453	=ROUND((R261-P261)*(AC261)*M261/1000,4)
Small 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)
Small Business Direct Install	All	Lighting	LED High Bay 176-350W	Pulse Start Metal Halide (watts)	1078	=ROUND((R263-P263)*(AC263)*M263/1000,4)
Small 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)
Small 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)
Small 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)
Business Standard	All	Lighting	LED Low Bay 30-70W	Pulse Start Metal Halide (watts)	201	=ROUND((R267-P267)*(AC267)*M267/1000,4)
Business Standard	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	Pulse Start Metal Halide (watts)	201	=ROUND((R268-P268)*(AC268)*M268/1000,4)
Business Standard	All	Lighting	LED Low/High Bay 71-110W	Pulse Start Metal Halide (watts)	288	=ROUND((R269-P269)*(AC269)*M269/1000,4)
Business 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)
Business Standard	All	Lighting	LED High Bay 111-175W	Pulse Start Metal Halide (watts)	453	=ROUND((R271-P271)*(AC271)*M271/1000,4)
Business Standard	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	Pulse Start Metal Halide (watts)	453	=ROUND((R272-P272)*(AC272)*M272/1000,4)
Business Standard	All	Lighting	LED High Bay 176-350W	Pulse Start Metal Halide (watts)	1078	=ROUND((R273-P273)*(AC273)*M273/1000,4)
Business Standard	All	Lighting	LED High Bay fixture replacing > 750W fixture	Pulse Start Metal Halide (watts)	1078	=ROUND((R274-P274)*(AC274)*M274/1000,4)
Business Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R275-P275)*(AC275)*M275/1000,4)
Business 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)
Business Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp	32W 4 ft fluorescent T8 lamp	28	=ROUND((R277-P277)*(AC277)*M277/1000,4)
Business 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)
Business 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)
Business 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)



# Current List of DSM Measure Assumptions for KCP&L

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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)
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	100%	257.87
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	Targeted a bit above 25% of IMC between \$0.16-\$0	100%	204.73
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or 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
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	per unit	100%	594.94
Small Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	641.35
Small Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	per unit	100%	641.35
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≤ 13W	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	per unit	100%	195.08
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit 14 to 21W	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 replacing 61-100W Fixture	per unit	100%	321.88
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit ≥ 22W	Min of 50% Incremental Cost or \$0.10/kWh with so	100%	512.08
Small Business Direct Install	All	Lighting	LED Downlight or Retrofit Kit replacing 101-155W Fixture	per unit	100%	512.08
Small Business Direct Install	All	Lighting	LED Low Bay 30-70W	per unit	100%	806.63
Small Business Direct Install	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	per unit	100%	806.63
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W	per unit	100%	1,096.03
Small Business Direct Install	All	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%	4,482.64
Small Business Direct Install	All	Lighting	LED High Bay fixture replacing > 750W fixture	per unit	100%	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%	35.84
Business Standard	All	Lighting	LED Low Bay 30-70W	per unit	100%	806.63
Business Standard	All	Lighting	LED Low Bay Fixture replacing 150W-300W fixture	per unit	100%	806.63
Business Standard	All	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	per unit	100%	1,096.03
Business Standard	All	Lighting	LED High Bay 111-175W	per unit	100%	1,711.78
Business Standard	All	Lighting	LED High Bay Fixture replacing 451W - 750W fixture	per unit	100%	1,711.78
Business Standard	All	Lighting	LED High Bay 176-350W	per unit	100%	4,482.64
Business Standard	All	Lighting	LED High Bay fixture replacing > 750W fixture	per unit	100%	4,482.64
Business Standard	All	Lighting	28W - 4 ft fluorescent T8 lamp	per unit	100%	17.92
Business Standard	All	Lighting	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	per unit	100%	17.92
Business Standard	All	Lighting	25W - 4 ft fluorescent T8 lamp	per unit	100%	35.84
Business Standard	All	Lighting	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	per unit	100%	35.84
Business Standard	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	per unit	100%	806.63
Business Standard	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	per unit	100%	1,096.03
Business 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 > 750W fixture	per unit	100%	4,482.64

# Current List of DSM Measure Assumptions for KCP&L

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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	4/1/2016	3/31/2017			
Small Business Direct Install	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				
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 Fluorescent 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				
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				
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				
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				
Small Business Direct Install	All	Lighting	LED Low/High Bay 71-110W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	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				
Small Business Direct Install	All	Lighting	LED High Bay 111-175W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	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				
Small Business Direct Install	All	Lighting	LED High Bay 176-350W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017			
Small Business Direct Install	All	Lighting	LED High Bay fixture replacing > 750W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017				
Small Business Direct Install	All	Lighting	28W - 4 ft fluorescent T8 lamp	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016				
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 Fixture replacing 150W-300W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017				
Business Standard	All	Lighting	LED Low/High Bay 71-110W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	3/31/2017			
Business Standard	All	Lighting	LED Low/High Bay Fixture replacing 301W-450W fixture	AEG KCP&L Program Plan 2016-2018	2/1/2017	4/1/2017				
Business Standard	All	Lighting	LED High Bay 111-175W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	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				
Business Standard	All	Lighting	LED High Bay 176-350W	AEG KCP&L Program Plan 2016-2018	2/11/2016	4/1/2016	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				
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				
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				
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				

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

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AG

Count: 162

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

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Published

3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

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Count: 162

Measure Description				
Program	Segment	End Use	Measure Name	Quantity3 Description
Small Business Direct Install	All	Lighting	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO	
Small Business Direct Install	All	Lighting	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights (4, 5, and 6-foot)	
Small Business Direct Install	All	Lighting	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	
Small Business Direct Install	All	Lighting	LED Freezer Case Lights (4, 5, and 6-foot)	
Small Business Direct Install	All	Lighting	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent 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	All	Lighting	28W - 4 ft fluorescent T8 lamp	
Small Business Direct Install	All	Lighting	25W - 4 ft fluorescent T8 lamp	
Business Standard	All	Lighting	LED Low Bay 30-70W	
Business Standard	All	Lighting	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	
Business Standard	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	
Business Standard	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	
Business Standard	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	

# Current List of DSM Measure Assumptions for KCP&L

Published

3/4/2016

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

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Measure Description							Gross Measure Value			
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	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	0230		per fixture	\$100.00	806.6286	0.176	83%
Small Business Direct Install	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 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%
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 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 Furnace	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: HVAC	0243	Tier 3	per measure	\$ 5,250.00	12667.0000	5.904	72%

**Current List of DSM Measure Assumptions for KCP&L**

Published 3/4/2016

**Valid for Program Implementation Dates: Early 2016 to**

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Count: 162

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Measure Description								
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 low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	0.1457	4,367	12	LED Low Bay (watts)	70
Small Business Direct Install	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
Small Business Direct Install	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
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 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	18	EER	23
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace	7.6644	8640	18	EER	23
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_ASHp + Early Retirement or Replace at Fail_SF: H	4.2509	8640	18	EER	23

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

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Measure Description				Algorithms		
Program	Segment	End Use	Measure Name	Baseline Definition	Baseline Efficiency Value	Electric Energy Savings Algorithm
Small Business Direct Install	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	Pulse Start Metal Halide (watts)	201	=ROUND((R283-P283)*(AC283)*M283/1000,4)
Small Business Direct Install	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 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)
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 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)
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Early Retirement Electric Resistance Furnace	GSHP replacing operating AC (14 SEER) w/ electric furnace – 23 EER minimum (EER)	12	=ROUND(19040,4)
Whole House Efficiency	Single Family	HVAC	GSHP - EER 23_AC + Replace at Fail Electric Resistance Furnace	GSHP replacing failed AC w/ electric 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: HVAC	GSHP replacing operating or failed ASHP (14 SEER) – 23 EER minimum (EER)	12	=ROUND(12667,4)

# Current List of DSM Measure Assumptions for KCP&L

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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)
Small Business Direct Install	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	per unit	100%	806.63
Small Business Direct Install	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	per unit	100%	1,096.03
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	per unit	100%	1,711.78
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 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 Furnace		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: H		100%	12667.0000



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[Link to CDD](#) [Link to HDD](#)

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Count: 162

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 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				
Small Business Direct Install	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				
Small Business Direct Install	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				
Small Business Direct Install	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				
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 Furnace	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: HVAC	Ameren Missouri Measure Listing for MEE	2/1/2017	3/1/2017		3020	4470	

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

Valid for Program Implementation Dates: **Early 2016** to

Search using Drop-down Filters in Headers

Count: 162

AC

AD

AE

AF

AG

			Measure Description	Reporting Information				
Program	Segment	End Use	Measure Name	Quantity1	Quantity1 Description	Quantity2	Quantity2 Description	Quantity3
Small Business Direct Install	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 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 Furnace					
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					

# Current List of DSM Measure Assumptions for KCP&L

Published 3/4/2016

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AH

Count: 162

Measure Description				
Program	Segment	End Use	Measure Name	Quantity3 Description
Small Business Direct Install	All	Lighting	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	
Small Business Direct Install	All	Lighting	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	
Small Business Direct Install	All	Lighting	LED high bay mogul screw-base lamp/retrofit kit replacing > 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 Furnace	
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	