

**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 APPLICATION FOR APPROVAL TO  
MODIFY TECHNICAL RESOURCE MANUAL AND PROGRAM DESIGN  
INCENTIVE RANGES**

COMES NOW Kansas City Power & Light Company and KCP&L Greater Missouri Operations Company (“KCP&L”; “GMO”; collectively “Company”), and submits to the Missouri Public Service Commission (“Commission”), this Application to modify its Technical Resource Manual (“TRM”) and to modify its Program Design Incentive Ranges. In support, thereof, the Company states as follows:

1. This filing is made in accordance with the Non-Unanimous Stipulation and Agreement (“Stipulation”) filed on March 17, 2016 in the above referenced cases and approved by the Commission on April 6, 2016. The changes requested in this Application represent modifications to Appendix 1 and Appendix 2 of the Stipulation as well as modifications to the Company’s existing MEEIA Cycle 2 TRM.

2. The Company’s Commission-approved TRM sets forth measures, the level of energy savings, incremental costs and effective, useful lives associated with each measure. The TRM, and certain updates thereto, are also used to calculate the Company’s throughput

disincentive on a prospective basis (subject to DSIM<sup>1</sup> true-up provisions). The Program Design Incentive Ranges list the range of rebate levels that the Company will provide to customers for participating in specific measures.

3. In this Application, the Company submits revised TRM and Program Design Incentive Ranges for Commission approval. The changes to the TRM are primarily based on incorporating the Evaluation, Measurement and Verification (“EM&V”) results from KCP&L’s and GMO’s MEEIA Cycle 2 program year 1 and additional minor changes to enhance program year 3 participation. The proposed participation enhancement revisions implement suggestions and feedback from the Implementation Team (KCP&L, ICF International and CLEAResult) as well as the Third-Party Evaluator (Navigant Consulting).

4. These updates have been reviewed by the Implementation Team and by the Company’s contractors. Additionally, the measure changes will not require any adjustment of the MEEIA Cycle 2 portfolio's goals. The revisions are found and explained in the following exhibits:

<b><u>Exhibit</u></b>	<b><u>Name</u></b>	<b><u>Description</u></b>
A	KCP&L & GMO MEEIA Cycle 2 TRM Modifications Request	Summary description of changes and supporting data
B	Current List of DSM Measure Assumptions for KCP&L/GMO	Updated TRM with changes proposed
C	Program Design Incentive Ranges	Updated Program Design Incentive Ranges

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<sup>1</sup> “Demand-side Investment Mechanism”

**WHEREFORE**, KCP&L and GMO request the Commission issue an Order approving the proposed revisions to the TRM, and the updates to the Program Design Incentive Ranges.

Respectfully submitted,

*/s/ Roger W. Steiner*

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**ATTORNEYS FOR KANSAS CITY POWER &  
LIGHT COMPANY 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, to all counsel of record in this case on this 28<sup>th</sup> day of February 2018.

*/s/ Roger W. Steiner*

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Roger W. Steiner

## KCP&L & GMO MEEIA Cycle 2 TRM Modifications Request

KCP&L and KCP&L Greater Missouri Operations (GMO) (“The Company”) requests an update to a few succinct parts of the MEEIA Cycle 2 Technical Resource Manual (TRM) approved under Case Nos. EO-2015-0240 and EO-2015-0241 which were approved on March 2, 2016. These changes are in accordance with Appendix 1 and Appendix 2 of the Non-Unanimous Stipulation and Agreement filed on March 17, 2016 and approved on April 6, 2016. Overall, the modifications are in 2 parts, updating the Company’s TRM and the Program Measures Incentive Ranges. Updating the measures within the KCP&L and GMO Technical Resource Manual (TRM) will improve the accuracy of savings associated with each measure, allow for greater overall residential and business participation, improve the efficiency of spend of existing program budgets. The program measure incentives are updated where a new measure was added and where a need was to lower the bottom range of the incentives. The Company is not asking for any modification to the budgets or savings targets associated with these changes.

The primary descriptions of the modifications are split up into five separate program areas listed below.

- Whole House Efficiency
- Home Lighting
- Income Eligible Multi-Family
- Business Standard
- Small Business Direct Install

The modifications requested and their impact to which specific documents are summarized below in Table 1 and Table 2.

**Table 1. Residential TRM/Incentive Range Modifications**

Program	Short Description	TRM Add	TRM Change	Incentive Change	
Whole House Efficiency	Modify Direct Install measures; (Screw In LED, Low Flow Aerator, Pipe Insulation, Strip, Showerhead) Per IL TRM v5		X		
	Modify Air Sealing, Ceiling Insulation and Wall Insulation Per Coefficient Assumptions per IL TRM v5		X		
	Modify Heat Pump Water Heater, ECM Fan, HP Ductless Mini Split, AC SEER 15, SEER 15 Early Retirement, SEER 15 Early Retirement (future), SEER 16, SEER 16 Early Retirement, SEER 16 Early Retirement (future), Seer 17, SEER 17 Early Retirement, SEER 17 Early Retirement (future), Heat Pump SEER 16, Heat Pump SEER 15 Early Retirement, SEER 15 Early Retirement (future), Heat Pump SEER 17, Heat Pump Seer 17 Early Retirement, Heat Pump Early Retirement (future)			X	
	Add Heat Pump SEER 16 Replace Electric Resistance Heat, HP SEER 16 Replace Electric (early retirement), HP SEER 16 Replace Electric (early retirement-future), Heat Pump SEER 17 Replace Electric Resistance Heat, HP SEER 17 Replace Electric (early retirement), HP SEER 17 Replace Electric (early retirement-future)	X			X
Home Lighting	Add Screw Specialty LED's Measure	X		X	
	Modify Screw in LED's Waste Heat Factor Assumption per IL TRM v5		X		
Income Eligible Multi-Family	Modify Direct Install measures; (Screw In LED, Low Flow Aerator, Pipe Insulation, Strip, Showerhead) Per IL TRM v5	X			
	Modify LED Exit Sign, LED Flood Light (<15W), Screw in LED's Common Area Per IL TRM v5		X		

**Table 2. Business TRM/Incentive Range Modifications**

Program	Short Description	TRM Add	TRM Change	Incentive Change	
C&I Standard	Modify Low Flow Faucet Aerator, Pre-Rinse Spray Valves, ENERGY STAR® Beverage Machine, High Efficiency Reach in Refrigerator/Freezer, Strip Curtains, LED Refrigerator Case Light per IL TRM v5		X		
	Modify Directional LED Bulb <15W, Directional LED Bulb >=15W, LED Exit Sign, Omnidirectional LED Bulb (<10W), Omnidirectional(>=10W), Wall Mount Occupancy Sensor Per IL TRM v5 and Navigant Field Analysis.		X		
	Modify Compressed Air- No Loss Drain/Valve, LED Linear Lamp Replacing 4ft, 2ft, LED 2x4 Retrofit Kit 2x2 Retrofit Kit, 1x4 Troffer, 2x4 Troffer, 2x2 Troffer, LED Downlight or Retrofit Kit <=13W, 14 to 21 W and >=22W Per Waste Heat Factor of Demand Assumptions IL TRM v5			X	
	Add Interior 8' LED Linear Lamp Replacing 8ft T8 or T12 Lamp	X		X	
Small Business Direct Install	Modify LED Exit Sign for Waste Heat Factor per Navigant's Field analysis.		X		

Updates to the TRM include a few new measures, existing measures updated with EM&V results, and existing measures broken out into more detailed measures for better reporting. The additions can be found by filtering on the Effective Start Date column AA for the date of 4/1/2018. For the existing measures that were either updated or broken out into more detail based on EM&V, an end date was added of 3/31/2018 in column AB. Also, many source columns were added to detail where the accompanying value was sourced and additional Quantity fields were added to better detail all the inputs used to determine the measures values.

## Home Lighting (LED Discount) Proposed Changes

### Add Screw In – Specialty LED Measure

The Company proposes to add an additional measure; Specialty LED's to the Home Lighting program.

As the LED bulb technology continues to evolve so do the assumptions around incremental costs, energy savings and useful life between Standard and Specialty bulbs. To disaggregate these from one category which may blend assumptions the Company proposes a standalone category for specialty LED's. In doing so the Company will be in a better position to align ex ante assumptions with ex post anticipated results.

The program implementer, ICF, in conjunction with the program evaluator, Navigant, conducted comprehensive research around incremental costs assumptions, energy savings and coincident peak demand reduction.

Adding the specialty LED measure will allow the Company flexibility to modify costs by end use measure rather than by an aggregate range to drive pricing to adequate levels by bulb type to drive participation. Reducing the incentive by measure type will also improve cost effectiveness, as pricing and savings by measure would be more in line.

## Whole House Efficiency – Heating & Cooling Rebate Proposed Changes

### Separate Early Retirement and Replace at Fail Electric Resistance Heat Measures

KCP&L requests approval to differentiate between 'early retirement' and 'replace at fail' with this technology/measure as it already applies to the replacement/installation of the other various Heat Pump SEER 15, 16, 17 systems. Contractors have demonstrated there is customer interest in early replacements of this system type and these measures to the TRM as an eligible offering will provide a new market to build on existing program participation.

#### Benefits to Residential Customers

- Additional measure offerings to compare and consider.
- High efficiency alternative that will encourage participation not currently offered by the program.
- Offer option and motivation for customers to increase the efficiency of their existing equipment even if the equipment is still operable.
- Rebate will help offset cost to increase the operating efficiency of HVAC system.

#### Benefits to HVAC Contractors (Authorized Trade Allies)

- Increase sales volume and increase the propensity for customers to take the next steps to a better and more efficient operating system.

#### Benefits to Company of MEEIA (Whole House Efficiency)

- Cost-effective measure to incorporate into portfolio to diversify residential customer offerings and increase savings.

## Income-Eligible Multi-Family Proposed Changes

### Update Program Assumptions

The Company requests to update the measure assumptions for Screw in LED's, low flow faucet aerator, pipe insulation, low flow showerhead, smart power strip, LED exit sign, LED Flood Light and Common Area LED's per precision recommendations identified by both Navigant and ICF. Additionally, the change will align the expected savings from the project with the actual baseline.

## Business Standard & Small Business Direct Install Proposed Changes

### Measure changes (Business Standard & Small Business Direct Install)

The Company requests to update the measure assumptions for low flow faucet aerator, pre-rinse spray valves, ENERGY STAR beverage machines, high efficiency Refrigerator/Freezer, Strip Curtains Freezer/Cooler, LED Refrigerator Case Light, Interior Directional LED lamp, LED exit sign, Omnidirectional LED, Compressed Air and Low/High Bay fixtures per names for LED high/low bay measures per precision recommendations identified by both Navigant and program implementer; CLEAResult. Additionally, the change will align the expected savings from the project with the actual baseline.

### Add new measure for 8' LED Linear Lamp (Business Standard)

The reason for this change is that the implementation team has observed market demand for 8' LED linear lamps. While not as common as the traditional 4' LED linear customers that generally have 8ft T8's typically has a strong preference to stay with an 8' replacement rather than convert to two 4' fixtures. The benefits of the change will be a simplified process for customers and an opportunity to encourage participation from this target customer segment.







## KCP&amp;L MEEIA Cycle 2 (2016-2018)

Updated: 4/1/2018

## Program Design Incentive Ranges

The table below shows updated incentive ranges for each measure and program for Cycle 2.
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Program	Measure	Unit	Primary Key	Low	High
Home Lighting Rebate	Screw In - LEDs	per unit	2.1	\$ 0.50	\$ 15.00
Home Lighting Rebate	Screw In - Specialty LEDs	per unit	244	\$ 0.50	\$ 15.00
Whole House Efficiency	Air Sealing	per sq. ft.	14.1	\$ 0.04	\$ 0.12
Whole House Efficiency	Increased Ceiling Insulation	per sq. ft.	15.1	\$ 0.15	\$ 0.76
Whole House Efficiency	Increased Wall Insulation	per sq. ft.	16.1	\$ 0.30	\$ 1.15
Whole House Efficiency	ENERGY STAR Windows	per sq. ft.	17	\$ 0.13	\$ 0.71
Whole House Efficiency	Heat Pump Water Heater	per unit	18.1	\$ 250.00	\$ 700.00
Whole House Efficiency	Efficient ECM Fan	per unit	19.1	\$ 75.00	\$ 350.00
Whole House Efficiency	Heat Pump Ductless Mini Split	per unit	20.1	\$ 110.00	\$ 720.00
Whole House Efficiency	Air Conditioner SEER 15	per unit	21.1	\$ 30.00	\$ 180.00
Whole House Efficiency	Air Conditioner SEER 15, Early Retirement	per unit	22.1	\$ 90.00	\$ 600.00
Whole House Efficiency	Air Conditioner SEER 16	per unit	24.1	\$ 40.00	\$ 280.00
Whole House Efficiency	Air Conditioner SEER 16, Early Retirement	per unit	25.1	\$ 105.00	\$ 700.00
Whole House Efficiency	Air Conditioner SEER 17	per unit	27.1	\$ 50.00	\$ 350.00
Whole House Efficiency	Air Conditioner SEER 17 - Early Retirement	per unit	28.1	\$ 150.00	\$ 700.00
Whole House Efficiency	Heat Pump SEER 15	per unit	30.1	\$ 75.00	\$ 150.00
Whole House Efficiency	Heat Pump SEER 15, Early Retirement	per unit	31.1	\$ 120.00	\$ 800.00
Whole House Efficiency	Heat Pump SEER 15, Replace Electric Resistance Heat	per unit	33.1	\$ 100.00	\$ 2,000.00
Whole House Efficiency	Heat Pump SEER 15, Replace Electric Resistance Heat - Early Retirement	per unit	314	\$ 100.00	\$ 2,000.00
Whole House Efficiency	Heat Pump SEER 16	per unit	34.1	\$ 150.00	\$ 300.00
Whole House Efficiency	Heat Pump SEER 16, Early Retirement	per unit	35.1	\$ 140.00	\$ 950.00
Whole House Efficiency	Heat Pump SEER 16, Replace Electric Resistance Heat	per unit	37.1	\$ 150.00	\$ 2,000.00
Whole House Efficiency	Heat Pump SEER 16, Replace Electric Resistance Heat - Early Retirement	per unit	316	\$ 200.00	\$ 2,000.00
Whole House Efficiency	Heat Pump SEER 17	per unit	38.1	\$ 150.00	\$ 460.00
Whole House Efficiency	Heat Pump SEER 17 - Early Retirement	per unit	39.1	\$ 200.00	\$ 1,000.00
Whole House Efficiency	Heat Pump SEER 17 - Replace Electric Resistance Heat	per unit	41.1	\$ 150.00	\$ 2,000.00
Whole House Efficiency	Heat Pump SEER 17 - Replace Electric Resistance Heat - Early Retirement	per unit	318	\$ 200.00	\$ 2,000.00
Programmable Thermostat	DR Thermostat annual participation incentive	Per T-stat	65	\$ 10.00	\$ 50.00
Small Business Direct Install	Interior Daylighting Controls Replacing No Controls	per unit	67.1	\$ 14.00	\$ 70.00
Small Business Direct Install	LED Exit Sign	per unit	68.1	\$ 5.00	\$ 18.00
Small Business Direct Install	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	69.1	\$ 44.00	\$ 165.00
Small Business Direct Install	Directional LED Lamp replacing 71-110W Lamp	per unit	70.1	\$ 2.00	\$ 30.00



Program	Measure	Unit	Primary Key	Low	High
Small Business Direct Install	Remove 4ft Lamp from T8 or T12 system	per unit	72.1	\$ 6.00	\$ 23.00
BEER - Standard	Heat Pump Water Heater	per unit	74	\$ 250.00	\$ 800.00
BEER - Standard	Low Flow Faucet Aerator Kitchen	per unit	251	\$ 1.25	\$ 8.00
BEER - Standard	Low Flow Faucet Aerator Bathroom	per unit	252	\$ 1.25	\$ 8.00
BEER - Standard	Pipe Wrap/Insulation	per unit	76	\$ 7.50	\$ 50.00
BEER - Standard	Pre-Rinse Spray Valves Small	per unit	253	\$ 20.00	\$ 75.00
BEER - Standard	Pre-Rinse Spray Valves Medium	per unit	254	\$ 20.00	\$ 75.00
BEER - Standard	Pre-Rinse Spray Valves Large	per unit	255	\$ 20.00	\$ 75.00
BEER - Standard	High Efficiency Pool Pump	per unit	78	\$ 55.00	\$ 205.00
BEER - Standard	Pool Pump VSD	per unit	79	\$ 116.00	\$ 434.00
BEER - Standard	ENERGY STAR Beverage Machine without software	per unit	256	\$ 40.00	\$ 140.00
BEER - Standard	ENERGY STAR Beverage Machine with software	per unit	257	\$ 40.00	\$ 140.00
BEER - Standard	High Efficiency Reach-In Refrigerator	per unit	258	\$ 16.00	\$ 160.00
BEER - Standard	High Efficiency Reach-In Freezer	per unit	259	\$ 20.00	\$ 160.00
BEER - Standard	Strip Curtains Freezer	per unit	260	\$ 30.00	\$ 280.00
BEER - Standard	Strip Curtains Cooler	per unit	261	\$ 27.00	\$ 280.00
BEER - Standard	LED Refrigerator Case Light	per unit	84.1	\$ 20.00	\$ 130.00
BEER - Standard	ECM Motors Walk-In Coolers & Freezers	per unit	85	\$ 15.00	\$ 50.00
BEER - Standard	High Efficiency PTAC/PTHP	per ton	86	\$ 2.50	\$ 12.00
BEER - Standard	Programmable Thermostat Controls	per ton	87	\$ 1.00	\$ 6.00
BEER - Standard	Air Source Heat Pump <65 kBtuh	per ton	88	\$ 30.00	\$ 120.00
BEER - Standard	Air Source Heat Pump 65<135 kBtuh	per ton	89	\$ 30.00	\$ 100.00
BEER - Standard	Air Sourced Air Conditioner <65 kBtuh	per ton	90	\$ 25.00	\$ 100.00
BEER - Standard	Air Sourced Air Conditioner 65<135 kBtuh	per ton	91	\$ 25.00	\$ 80.00
BEER - Standard	Air Sourced Air Conditioner 135<240 kBtuh	per ton	92	\$ 25.00	\$ 100.00
BEER - Standard	Air Sourced Air Conditioner >240 kBtuh	per ton	93	\$ 25.00	\$ 100.00
BEER - Standard	Interior Directional LED Lamp replacing 50-70W Lamp	per unit	96.2	\$ 1.00	\$ 40.00
BEER - Standard	Interior Directional LED Lamp replacing 71-110W Lamp	per unit	97.2	\$ 2.00	\$ 50.00
BEER - Standard	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	per unit	98.1	\$ 60.00	\$ 225.00
BEER - Standard	High Bay Fluorescent Fixture (HP T8 ≤4ft)	per unit	99	\$ 40.00	\$ 200.00
BEER - Standard	High-Bay Fluorescent Fixture T5 > 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	100.1	\$ 40.00	\$ 100.00
BEER - Standard	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	101.1	\$ 20.00	\$ 100.00
BEER - Standard	LED Exit Sign	per unit	102.1	\$ 6.00	\$ 30.00
BEER - Standard	LED Flood Light (<15W)	per unit	103	\$ 7.50	\$ 35.00
BEER - Standard	LED Flood Light (≥15W)	per unit	104	\$ 7.50	\$ 45.00
BEER - Standard	LED Recessed Fixture (1ft x 4ft)	per unit	106	\$ 7.50	\$ 36.00
BEER - Standard	LED Recessed Fixture (2ft x 2ft)	per unit	107	\$ 5.00	\$ 20.00
BEER - Standard	LED Recessed Fixture (2ft x 4ft)	per unit	108	\$ 10.00	\$ 60.00
BEER - Standard	Remove 4ft Lamp from T8 or T12 system	per unit	109.1	\$ 5.00	\$ 12.00
BEER - Standard	Remove 8ft Lamp from T8 or T12 System	per unit	110.1	\$ 5.00	\$ 16.00
BEER - Standard	Interior Omnidirectional LED Lamp replacing 40-60W Lamp	per unit	112.2	\$ 1.00	\$ 30.00
BEER - Standard	Interior Omnidirectional LED Lamp replacing 61-100W Lamp	per unit	113.2	\$ 1.00	\$ 40.00
BEER - Standard	Interior Daylighting Controls Replacing No Controls	per unit	114.1	\$ 18.00	\$ 70.00
BEER - Standard	Occupancy or Vacancy Sensor Replacing No Controls	per unit	115.1	\$ 10.00	\$ 40.00
BEER - Standard	High Volume Low Speed Fans (20ft Diameter)	per unit	116	\$ 500.00	\$ 1,500.00
BEER - Standard	High Volume Low Speed Fans (22ft Diameter)	per unit	117	\$ 500.00	\$ 1,500.00
BEER - Standard	High Volume Low Speed Fans (24ft Diameter)	per unit	118	\$ 500.00	\$ 1,500.00

Program	Measure	Unit	Primary Key	Low	High
BEER - Standard	Compressed Air - Engineered Nozzle 1/4"	per unit	119	\$ 10.00	\$ 30.00
BEER - Standard	Compressed Air - Engineered Nozzle 1/8"	per unit	120	\$ 10.00	\$ 30.00
BEER - Standard	Compressed Air - No Loss Condensate Drain/Valve	per unit	121.1	\$ 100.00	\$ 300.00
BEER - Standard	Variable Speed Drive Compressor - 1 shift weekdays	per unit	122	\$ 30.00	\$ 90.00
BEER - Standard	Variable Speed Drive Compressor - 2 shift weekdays	per unit	123	\$ 30.00	\$ 90.00
BEER - Standard	Variable Speed Drive Compressor - 3 shift weekdays	per unit	124	\$ 30.00	\$ 90.00
BEER - Standard	Variable Speed Drive Compressor - 3 shift weekdays plus weekends	per unit	125	\$ 30.00	\$ 90.00
BEER - Standard	Advanced Rooftop Unit Controls, 2000-4000 annual hours occupancy	per unit	137	\$ 75.00	\$ 225.00
BEER - Standard	Advanced Rooftop Unit Controls, > 4000 annual hours occupancy	per unit	138	\$ 113.00	\$ 338.00
BEER - Standard	Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation	per unit	139	\$ 50.00	\$ 150.00
BEER - Standard	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation	per unit	140	\$ 100.00	\$ 300.00
BEER - Standard	Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation	per unit	142	\$ 50.00	\$ 150.00
BEER - Standard	Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation	per unit	143	\$ 100.00	\$ 300.00
BEER - Standard	Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation	per unit	144	\$ 200.00	\$ 600.00
BEER - Standard	Parking Garage 4ft 3 Lamp T5/T5HO or T8 replacing > 175W Fixture	per unit	146.1	\$ 33.00	\$ 98.00
BEER - Standard	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101W-175W Fixture	per unit	147.1	\$ 25.00	\$ 75.00
BEER - Standard	Parking Garage 4ft 1 Lamp T5/T5HO or T8 replacing ≤ 100W Fixture	per unit	148.1	\$ 18.00	\$ 53.00
BEER - Standard	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	per unit	149.1	\$ 100.00	\$ 375.00
BEER - Standard	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	per unit	150.1	\$ 40.00	\$ 188.00
BEER - Standard	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	per unit	151.1	\$ 20.00	\$ 113.00
BEER - Standard	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	per unit	152.1	\$ 20.00	\$ 75.00
BEER - Standard	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	per unit	153.1	\$ 30.00	\$ 180.00
BEER - Standard	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	per unit	154.1	\$ 16.00	\$ 150.00
BEER - Standard	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	per unit	155.1	\$ 10.00	\$ 90.00
BEER - Standard	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	per unit	166.1	\$ 2.00	\$ 8.00
BEER - Standard	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	per unit	167.1	\$ 1.00	\$ 6.00
BEER - Standard	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	168.1	\$ 11.00	\$ 53.00
BEER - Standard	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	169.1	\$ 13.00	\$ 60.00
BEER - Standard	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	170.1	\$ 12.00	\$ 53.00

Program	Measure	Unit	Primary Key	Low	High
BEER - Standard	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	171.1	\$ 10.00	\$ 60.00
BEER - Standard	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	172.1	\$ 13.00	\$ 68.00
BEER - Standard	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	173.1	\$ 12.00	\$ 60.00
BEER - Standard	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	per unit	174.1	\$ 25.00	\$ 75.00
BEER - Standard	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	per unit	175.1	\$ 30.00	\$ 90.00
BEER - Standard	LED Downlight or Retrofit Kit replacing 45-60W Fixture	per unit	176.1	\$ 4.00	\$ 23.00
BEER - Standard	LED Downlight or Retrofit Kit replacing 61-100W Fixture	per unit	177.1	\$ 6.00	\$ 45.00
BEER - Standard	LED Downlight or Retrofit Kit replacing 101-155W Fixture	per unit	178.1	\$ 10.00	\$ 75.00
Small Business Direct Install	Directional LED Lamp replacing 50-70W Lamp	per unit	179.1	\$ 1.00	\$ 18.00
Small Business Direct Install	High Performance High-Bay Fluorescent Fixture T8 > 4 Lamps Replacing HID Fixture	per unit	181.1	\$ 56.00	\$ 210.00
Small Business Direct Install	High-Bay Fluorescent Fixture T5 ≤ 4 Lamps w/ HE Electronic Ballast Replacing HID Fixture	per unit	183.1	\$ 34.00	\$ 128.00
Small Business Direct Install	Remove 8ft Lamp from T8 or T12 System	per unit	186.1	\$ 12.00	\$ 45.00
Small Business Direct Install	Omnidirectional LED Lamp replacing 40-60W Lamp	per unit	187.1	\$ 1.00	\$ 12.00
Small Business Direct Install	Omnidirectional LED Lamp replacing 61-100W Lamp	per unit	188.1	\$ 1.00	\$ 20.00
Small Business Direct Install	Occupancy or Vacancy Sensor Replacing No Controls	per unit	190.1	\$ 8.00	\$ 40.00
Small Business Direct Install	Parking Garage 4'3L T5, T5HP, or T8 replacing >175W fixture	per unit	191.1	\$ 38.00	\$ 136.00
Small Business Direct Install	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175W fixture	per unit	192.1	\$ 28.00	\$ 105.00
Small Business Direct Install	Parking Garage 4'1L T5, T5HP, or T8 replacing ≤100W fixture	per unit	193.1	\$ 20.00	\$ 74.00
Small Business Direct Install	Exterior LED replacing > 400W Fixture or Mogul Screw-Base Lamp	per unit	194.1	\$ 100.00	\$ 600.00
Small Business Direct Install	Exterior LED replacing 251W-400W Fixture or Mogul Screw-Base Lamp	per unit	195.1	\$ 40.00	\$ 263.00
Small Business Direct Install	Exterior LED replacing 175W-250W Fixture or Mogul Screw-Base Lamp	per unit	196.1	\$ 20.00	\$ 135.00
Small Business Direct Install	Exterior LED replacing < 175W Fixture or Mogul Screw-Base Lamp	per unit	197.1	\$ 10.00	\$ 113.00
Small Business Direct Install	Parking Garage LED replacing > 175W Fixture or Mogul Screw-Base Lamp	per unit	198.1	\$ 30.00	\$ 210.00
Small Business Direct Install	Parking Garage LED replacing 101W-175W Fixture or Mogul Screw-Base Lamp	per unit	199.1	\$ 16.00	\$ 240.00
Small Business Direct Install	Parking Garage LED replacing ≤ 100W Fixture or Mogul Screw-Base Lamp	per unit	200.1	\$ 10.00	\$ 150.00
Small Business Direct Install	LED Linear Lamp Replacing 4ft T8, T12, or T5 Lamp	per unit	201.1	\$ 2.00	\$ 11.00
Small Business Direct Install	LED Linear Lamp Replacing 2ft T8, T12, or T5 Lamp	per unit	202.1	\$ 1.00	\$ 8.00

Program	Measure	Unit	Primary Key	Low	High
Small Business Direct Install	LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	203.1	\$ 11.00	\$ 53.00
Small Business Direct Install	LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	204.1	\$ 13.00	\$ 60.00
Small Business Direct Install	LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5HO fixture	per unit	205.1	\$ 12.00	\$ 53.00
Small Business Direct Install	LED 1X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	206.1	\$ 10.00	\$ 60.00
Small Business Direct Install	LED 2X4 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	207.1	\$ 13.00	\$ 68.00
Small Business Direct Install	LED 2X2 Troffer or Linear Ambient replacing T8, T12 or T5/T5HO fixture	per unit	208.1	\$ 12.00	\$ 60.00
Small Business Direct Install	LED Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Refrigerated Case Lights w/Doors 4ft, 5ft, or 6ft	per unit	209.1	\$ 20.00	\$ 75.00
Small Business Direct Install	LED Freezer Case Lights w/Doors 4ft, 5ft, or 6ft replacing Fluorescent Freezer Case Lights w/Doors 4ft, 5ft, or 6ft	per unit	210.1	\$ 32.00	\$ 120.00
Small Business Direct Install	LED Downlight or Retrofit Kit replacing 45-60W Fixture	per unit	211.1	\$ 4.00	\$ 35.00
Small Business Direct Install	LED Downlight or Retrofit Kit replacing 61-100W Fixture	per unit	212.1	\$ 6.00	\$ 68.00
Small Business Direct Install	LED Downlight or Retrofit Kit replacing 101-155W Fixture	per unit	213.1	\$ 10.00	\$ 105.00
Small Business Direct Install	LED Low Bay Fixture replacing 150W-300W fixture	per unit	214.1	\$ 14.00	\$ 233.00
Small Business Direct Install	LED Low/High Bay Fixture replacing 301W-450W fixture	per unit	215.1	\$ 21.00	\$ 263.00
Small Business Direct Install	LED High Bay Fixture replacing 451W - 750W fixture	per unit	216.1	\$ 34.00	\$ 413.00
Small Business Direct Install	LED High Bay fixture replacing > 750W fixture	per unit	217.1	\$ 68.00	\$ 725.00
Small Business Direct Install	28W - 4 ft fluorescent T8 lamp	per unit	218	\$ 0.50	\$ 1.00
Small Business Direct Install	25W - 4 ft fluorescent T8 lamp	per unit	219	\$ 1.00	\$ 2.50
BEER - Standard	LED Low Bay Fixture replacing 150W-300W fixture	per unit	220.1	\$ 14.00	\$ 229.00
BEER - Standard	LED Low/High Bay Fixture replacing 301W-450W fixture	per unit	221.2	\$ 21.00	\$ 248.00
BEER - Standard	LED High Bay Fixture replacing 451W - 750W fixture	per unit	222.1	\$ 34.00	\$ 323.00
BEER - Standard	LED High Bay fixture replacing > 750W fixture	per unit	223.1	\$ 68.00	\$ 544.00
BEER - Standard	28W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	per unit	224.1	\$ 0.25	\$ 1.00
BEER - Standard	25W 4ft T8 Lamp Replacing 32W 4ft T8 Lamp	per unit	225.1	\$ 1.00	\$ 2.50
BEER - Standard	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	per unit	226	\$ 14.00	\$ 75.00
BEER - Standard	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	per unit	227	\$ 21.00	\$ 113.00
BEER - Standard	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	per unit	228	\$ 34.00	\$ 150.00
BEER - Standard	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	per unit	229	\$ 68.00	\$ 263.00
BEER - Standard	Interior 8' LED Linear Lamp Replacing 8ft T8 or T12 Lamp	per unit	313	\$ 4.00	\$ 16.00
Small Business Direct Install	LED low bay mogul screw-base lamp/retrofit kit replacing 150W - 300W fixture	per unit	230	\$ 14.00	\$ 77.00

Program	Measure	Unit	Primary Key	Low	High
Small Business Direct Install	LED low/high bay mogul screw-base lamp/retrofit kit replacing 301W - 450W fixture	per unit	231	\$ 21.00	\$ 120.00
Small Business Direct Install	LED high bay mogul screw-base lamp/retrofit kit replacing 451W - 750W fixture	per unit	232	\$ 34.00	\$ 192.00
Small Business Direct Install	LED high bay mogul screw-base lamp/retrofit kit replacing > 750W fixture	per unit	233	\$ 68.00	\$ 366.00
Whole House Efficiency	HVAC Maintenance and Tune-up (comprised of * measures below)	per unit		\$ 50.00	\$ 100.00
Whole House Efficiency	*Indoor Coil Cleaning_SF:HVAC	n/a	262		
Whole House Efficiency	*Indoor Coil Cleaning_SF:ASHP	n/a	263		
Whole House Efficiency	*Outdoor Coil Cleaning_SF:HVAC	n/a	264		
Whole House Efficiency	*Outdoor Coil Cleaning_SF:ASHP	n/a	265		
Whole House Efficiency	*Refrigerant Charge Adjustment (RCA)_SF: HVAC	n/a	266		
Whole House Efficiency	*Refrigerant Charge Adjustment (RCA)_SF: ASHP	n/a	267		
Whole House Efficiency	*HVAC Maintenance and Tune-up_SF: HVAC	n/a	238		
Whole House Efficiency	GSHP - EER 23_ER_SF: HVAC	per unit	239.1	\$ 500.00	\$ 3,000.00
Whole House Efficiency	GSHP - EER 23_Replace on Fail_SF: HVAC	per unit	240.1	\$ 500.00	\$ 3,000.00
Whole House Efficiency	GSHP - EER 14 + ER Elec Resist Furnace_SF: HVAC	per unit	241.1	\$ 500.00	\$ 3,000.00
Whole House Efficiency	GSHP - EER 14 + Replace Elec Resistance Furnace_SF: HVAC	per unit	242.1	\$ 500.00	\$ 3,000.00
Whole House Efficiency	GSHP - EER 14 + ER ASHP with GSHP ER or Replac on Fail_SF: HVAC	per unit	243.1	\$ 500.00	\$ 3,000.00
Income-Eligible Multi-Family	Custom Rebates	per kWh	0.02	\$ 0.08	\$ 0.42
BEER - Custom	C&I Custom	per unit	0.06	\$ 0.06	\$ 0.40
Strategic Energy Management	Strategic Energy Management	per unit	0.08	\$ 0.01	\$ 0.02
Block Bidding	Block Bidding	per Bid	0.07	Incentive costs vary based on project	
Demand Response Incentive	Curtable Rate	per kW	0.09	\$ 25.00	\$ 75.00