Appendix A: Measure Fixed Inputs

Residential Lighting

Measure Characterization

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Standard CFL	5.5.1	Elec	Res Lighting	Standard halogen bulb	CFL Bulbs	5
Standard CFL PY7 Carryover	5.5.1	Elec	Res Lighting	N/A	CFL Bulbs	5
Standard CFL PY8 Carryover	5.5.1	Elec	Res Lighting	N/A	CFL Bulbs	4

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr /unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Standard CFL	17.71	0.00	-0.36	$2.50	$1.60	0.44	0.40	0.36	0.44	0.40	0.36	0.44	0.44	0.44
Standard CFL PY7 Carryover	3.92	0.00	-0.08	$0.00	$0.00	0.44	0.40	0.36	0.44	0.40	0.36	0.44	0.44	0.44
Standard CFL PY8 Carryover	3.34	0.00	-0.07	$0.00	$0.00	0.44	0.40	0.36	0.44	0.40	0.36	0.44	0.44	0.44

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Standard CFL	2,525,000	2,525,000	2,525,000	7.79	7.08	6.38	-0.16	-0.16	-0.16
Standard CFL PY7 Carryover	0	2,525,000	2,525,000	0	1.537	1.307	-0.03	-0.03	-0.03
Standard CFL PY8 Carryover	0	0	2,525,000	0	0	1.397	-0.03	-0.03	-0.03

Residential HVAC

Measure Characterization

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
CAC 14.5-14.9 SEER	5.3.2	Elec	HVAC	CAC 13 SEER	SEER 14.5-14.9	18
CAC 15.0-15.9 SEER	5.3.2	Elec	HVAC	CAC 13 SEER	SEER 15.0-15.9	18
CAC 16.0+ SEER	5.3.2	Elec	HVAC	CAC 13 SEER	SEER 16.0+	18
CAC ER 14.5-14.9 SEER	5.3.2	Elec	HVAC	CAC 8.6 SEER	SEER 14.5-14.9	18
CAC ER 15.0-15.9 SEER	5.3.2	Elec	HVAC	CAC 8.6 SEER	SEER 15.0-15.9	18
CAC ER 16.0+ SEER	5.3.2	Elec	HVAC	CAC 8.6 SEER	SEER 16.0+	18
ASHP 14.5-14.9 SEER	5.3.1	Elec	HVAC	ASHP 9.12 SEER 5.44 HSPF	SEER 14.5-14.9	18
ASHP 15.0-15.9 SEER	5.3.1	Elec	HVAC	ASHP 9.12 SEER 5.44 HSPF	SEER 15.0-15.9	18
ASHP 16.0+ SEER	5.3.1	Elec	HVAC	ASHP 9.12 SEER 5.44 HSPF	SEER 16.0+	18
ASHP ER 14.5-14.9 SEER	5.3.1	Elec	HVAC	ASHP 13 SEER 7.7 HSPF * 70%; Electric resistance heat * 30%	SEER 14.5-14.9	18
ASHP ER 15.0-15.9 SEER	5.3.1	Elec	HVAC	ASHP 13 SEER 7.7 HSPF * 70%; Electric resistance heat * 30%	SEER 15.0-15.9	18
ASHP ER 16.0+ SEER	5.3.1	Elec	HVAC	ASHP 13 SEER 7.7 HSPF * 70%; Electric resistance heat * 30%	SEER 16.0+	18
BPM Blower Motor	5.3.4	Elec	HVAC	Non-BPM blower motor	BPM Blower Motor	20
Furnace 97% AFUE	5.3.6	Gas	HVAC	Furnace 80% AFUE	AFUE 97%	20
Furnace ER 97% AFUE	5.3.6	Gas	HVAC	Furnace 64.4% AFUE	AFUE 97%	20
Boiler 90% AFUE	5.3.5	Gas	HVAC	Boiler 82% AFUE	AFUE 90%	25
Boiler ER 90% AFUE	5.3.5	Gas	HVAC	Boiler 61.6% AFUE	AFUE 90%	25
Ground Source Heat Pump	5.3.7	Elec	HVAC	ASHP 13SEER 11 EER	Ground Source Heat Pump	18
Programmable Thermostat - Electric Heat	5.3.10	Elec	HVAC	Manual setting thermostat	Thermostat Setback	5
Programmable Thermostat - Gas Heat	5.3.10	Elec&Gas	HVAC	Manual setting thermostat	Thermostat Setback	5

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
CAC 14.5-14.9 SEER	195.18	0.24	0.00	$501	$150	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
CAC 15.0-15.9 SEER	251.57	0.32	0.00	$666	$200	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
CAC 16.0+ SEER	353.77	0.44	0.00	$1,000	$300	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
CAC ER 14.5-14.9 SEER	1,160.51	1.45	0.00	$1,238	$450	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
CAC ER 15.0-15.9 SEER	1,216.51	1.53	0.00	$1,404	$500	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
CAC ER 16.0+ SEER	1,319.09	1.65	0.00	$1,738	$600	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
ASHP 14.5-14.9 SEER	709.16	0.21	0.00	$618	$150	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
ASHP 15.0-15.9 SEER	1,041.35	0.27	0.00	$822	$200	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
ASHP 16.0+ SEER	1,150.85	0.37	0.00	$1,233	$300	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
ASHP ER 14.5-14.9 SEER	6,358.65	1.19	0.00	$1,545	$450	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
ASHP ER 15.0-15.9 SEER	6,690.84	1.25	0.00	$1,750	$500	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
ASHP ER 16.0+ SEER	6,800.34	1.36	0.00	$2,161	$600	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
BPM Blower Motor	720.00	0.31	0.00	$97	$200	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Furnace 97% AFUE	0.00	0.00	151.16	$1,983	$300	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Furnace ER 97% AFUE	0.00	0.00	360.09	$1,889	$600	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Boiler 90% AFUE	0.00	0.00	113.06	$1,272	$300	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Boiler ER 90% AFUE	0.00	0.00	534.29	$2,395	$600	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Ground Source Heat Pump	1,207.00	0.18	0.00	$3,609	$600	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Programmable Thermostat - Electric Heat	615.72	0.00	0.00	$30	$25	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Programmable Thermostat - Gas Heat	25.78	0.00	28.02	$30	$25	0.69	0.69	0.69	0.69	0.69	0.69	0.72	0.72	0.72

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
CAC 14.5-14.9 SEER	400	400	400	134.67	134.67	134.67	0.00	0.00	0.00
CAC 15.0-15.9 SEER	215	215	215	173.58	173.58	173.58	0.00	0.00	0.00
CAC 16.0+ SEER	500	500	500	244.10	244.10	244.10	0.00	0.00	0.00
CAC ER 14.5-14.9 SEER	1,000	1,000	1,000	800.75	800.75	800.75	0.00	0.00	0.00
CAC ER 15.0-15.9 SEER	350	350	350	839.39	839.39	839.39	0.00	0.00	0.00
CAC ER 16.0+ SEER	1,000	1,000	1,000	910.17	910.17	910.17	0.00	0.00	0.00
ASHP 14.5-14.9 SEER	75	75	75	489.32	489.32	489.32	0.00	0.00	0.00
ASHP 15.0-15.9 SEER	60	60	60	718.53	718.53	718.53	0.00	0.00	0.00
ASHP 16.0+ SEER	110	110	110	794.09	794.09	794.09	0.00	0.00	0.00
ASHP ER 14.5-14.9 SEER	110	110	110	4,387.47	4,387.47	4,387.47	0.00	0.00	0.00
ASHP ER 15.0-15.9 SEER	85	85	85	4,616.68	4,616.68	4,616.68	0.00	0.00	0.00
ASHP ER 16.0+ SEER	120	120	120	4,692.23	4,692.23	4,692.23	0.00	0.00	0.00
BPM Blower Motor	3,000	3,000	3,000	496.80	496.80	496.80	0.00	0.00	0.00
Furnace 97% AFUE	615	615	615	0.00	0.00	0.00	108.84	108.84	108.84
Furnace ER 97% AFUE	250	250	250	0.00	0.00	0.00	259.26	259.26	259.26
Boiler 90% AFUE	40	40	40	0.00	0.00	0.00	81.40	81.40	81.40
Boiler ER 90% AFUE	25	25	25	0.00	0.00	0.00	384.69	384.69	384.69
Ground Source Heat Pump	0	0	0	832.83	832.83	832.83	0.00	0.00	0.00
Programmable Thermostat - Electric Heat	750	750	750	424.85	424.85	424.85	0.00	0.00	0.00
Programmable Thermostat - Gas Heat	2,250	2,250	2,250	17.79	17.79	17.79	20.17	20.17	20.17

Residential Appliance Recycling

Measure Characterization

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Recycled Refrigerator	5.1.8	Elec	Refrigeration	Unit still in service	Removal of old appliance	8
Recycled Freezer	5.1.8	Elec	Refrigeration	Unit still in service	Removal of old appliance	8

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Recycled Refrigerator	808.31	0.10	0.00	$0	$50	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Recycled Freezer	904.03	0.11	0.00	$0	$50	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Recycled Refrigerator	6,340	5,850	5,255	517.32	517.32	517.32	0.00	0.00	0.00
Recycled Freezer	2,035	1,880	1,695	587.62	587.62	587.62	0.00	0.00	0.00

Residential Home Energy Performance

Measure Characterization

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure Life
CFL 43w to 14w - Post-EISA	5.5.1; 14W CFL	Elec	Lighting	43W Halogen	CFL Bulbs	5
CFL 53w to 19w - Post-EISA	5.5.1; 19W CFL	Elec	Lighting	53W Halogen	CFL Bulbs	5
CFL 72w to 23w - Post-EISA	5.5.1; 23W CFL	Elec	Lighting	72W Halogen	CFL Bulbs	5
CFL 60w to 14w globe - Pre-EISA	5.5.2; 14W CFL	Elec	Lighting	60W Incandescent	CFL Bulbs	7
CFL 60w to 14w candelabra - Pre-EISA	5.5.2; 14W CFL	Elec	Lighting	60W Incandescent	CFL Bulbs	7
CFL 60w to 14w reflector - Pre-EISA	5.5.2; 14W CFL	Elec	Lighting	60W Incandescent	CFL Bulbs	7
Showerhead 1.75 gpm - Electric DHW	5.4.5; 1.75 gpm	Elec	Hot Water	2.5+ gpm Showerhead	1.75 gpm	10
Faucet Aerator - Electric DHW	5.4.4; 2.2 gpm kitchen, 1.5 bath	Elec	Hot Water	Standard Aerator (2.75+ gpm kitchen, 2.25+ gpm bath)	Less water usage	9
Water Heater Temp Adjustment - Electric DHW	5.4.6; Setting of 120 degrees	Elec	Hot Water	Setting of 130+ degrees	Lower water temperature	2
Showerhead 1.75 gpm - Gas DHW	5.4.5; 1.75 gpm	Gas	Hot Water	2.5+ gpm Showerhead	1.75 gpm	10
Faucet Aerator - Gas DHW	5.4.4; 2.2 gpm kitchen, 1.5 bath	Gas	Hot Water	Standard Aerator (2.75+ gpm kitchen, 2.25+ gpm bath)	Less water usage	9
Water Heater Temp Adjustment - Gas DHW	5.4.6; Setting of 120 degrees	Gas	Hot Water	Setting of 130+ degrees	Lower water temperature	2
Air Sealing - Electric Heat	5.6.1; average 1575 CFM reduction	Elec	Insulation	Existing infiltration	Upgraded insulation	15
Ceiling Insulation (R-11 to R-49) - Electric Heat	5.6.4; add insulation to R49, average 1250 SF	Elec	Insulation	R11 or less existing insulation	Upgraded insulation	25
Ceiling Insulation (R-19 to R-49) - Electric Heat	5.6.4; add insulation to R49, average 1470 SF	Elec	Insulation	R19 or less existing insulation	Upgraded insulation	25
R-11 Wall Insulation - Electric Heat	5.6.4; fill cavity w/ dense-pack cellulose, average 800 SF	Elec	Insulation	Empty wall cavity	Upgraded insulation	25
Rim Joist Insulation - Electric Heat	5.6.4; add R11 insulation, average 145 LF	Elec	Insulation	Uninsulated rim joist	Upgraded insulation	25
Crawl Space Insulation - Electric Heat	5.6.2; add R11 insulation, average 145 LF, 3' high crawl space	Elec	Insulation	Uninsulated crawl space wall	Upgraded insulation	25
Air Sealing - Gas Heat Only	5.6.1; average 1575 CFM reduction	Elec&Gas	Insulation	Existing infiltration	Upgraded insulation	15
Ceiling Insulation (R-11 to R-49) - Gas Heat Only	5.6.4; add insulation to R49, average 1250 SF	Elec&Gas	Insulation	R11 or less existing insulation	Upgraded insulation	25
Ceiling Insulation (R-19 to R-49) - Gas Heat Only	5.6.4; add insulation to R49, average 1470 SF	Elec&Gas	Insulation	R19 or less existing insulation	Upgraded insulation	25
R-11 Wall Insulation - Gas Heat Only	5.6.4; fill cavity w/ dense-pack cellulose, average 800 SF	Elec&Gas	Insulation	Empty wall cavity	Upgraded insulation	25

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure Life
Rim Joist Insulation - Gas Heat Only	5.6.4; add R11 insulation, average 145 LF	Elec&Gas	Insulation	Uninsulated rim joist	Upgraded insulation	25
Crawl Space Insulation - Gas Heat Only	5.6.2; add R11 insulation, average 145 LF, 3' high crawl space	Elec&Gas	Insulation	Uninsulated crawl space wall	Upgraded insulation	25
Air Sealing - Gas Heat w/ AC	5.6.1; average 1575 CFM reduction	Elec&Gas	Insulation	Existing infiltration	Upgraded insulation	15
Ceiling Insulation (R-11 to R-49) - Gas Heat w/ AC	5.6.4; add insulation to R49, average 1250 SF	Elec&Gas	Insulation	R11 or less existing insulation	Upgraded insulation	25
Ceiling Insulation (R-19 to R-49) - Gas Heat w/ AC	5.6.4; add insulation to R49, average 1470 SF	Elec&Gas	Insulation	R19 or less existing insulation	Upgraded insulation	25
R-11 Wall Insulation - Gas Heat w/ AC	5.6.4; fill cavity w/ dense-pack cellulose, average 800 SF	Elec&Gas	Insulation	Empty wall cavity	Upgraded insulation	25
Rim Joist Insulation - Gas Heat w/ AC	5.6.4; add R11 insulation, average 145 LF	Elec&Gas	Insulation	Uninsulated rim joist	Upgraded insulation	25
Crawl Space Insulation - Gas Heat w/ AC	5.6.2; add R11 insulation, average 145 LF, 3' high crawl space	Elec&Gas	Insulation	Uninsulated crawl space wall	Upgraded insulation	25

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
CFL 43w to 14w - Post-EISA	26.17	0.00	-0.56	$0	$0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
CFL 53w to 19w - Post-EISA	30.68	0.00	-0.65	$0	$0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
CFL 72w to 23w - Post-EISA	44.21	0.01	-0.94	$0	$0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
CFL 60w to 14w globe - Pre-EISA	54.87	0.01	-0.88	$0	$0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
CFL 60w to 14w candelabra - Pre-EISA	58.76	0.01	-0.88	$0	$0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
CFL 60w to 14w reflector - Pre-EISA	41.50	0.00	-0.88	$0	$0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Showerhead 1.75 gpm - Electric DHW	367.85	0.02	0.00	$0	$0	0.82	0.82	0.82	0.96	0.96	0.96	0.79	0.79	0.79
Faucet Aerator - Electric DHW	42.22	0.02	0.00	$0	$0	0.77	0.77	0.77	0.77	0.77	0.77	0.72	0.72	0.72
Water Heater Temp Adjustment - Electric DHW	86.40	0.01	0.00	$5	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Showerhead 1.75 gpm - Gas DHW	0.00	0.00	15.64	$0	$0	0.82	0.82	0.82	0.96	0.96	0.96	0.79	0.79	0.79

Measure	kWh	kW	Thm	Incremental	Incentive /	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
Faucet Aerator - Gas DHW	0.00	0.00	1.89	$0	$0	0.77	0.77	0.77	0.77	0.77	0.77	0.72	0.72	0.72
Water Heater Temp Adjustment - Gas DHW	0.00	0.00	6.40	$5	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Air Sealing - Electric Heat	3,779.21	1.40	0.00	$1,181	$473	0.80	0.80	0.80	0.79	0.79	0.79	0.80	0.80	0.80
Ceiling Insulation (R-11 to R-49) - Electric Heat	1,520.58	0.12	0.00	$1,500	$500	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Ceiling Insulation (R-19 to R-49) - Electric Heat	845.69	0.14	0.00	$1,375	$441	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
R-11 Wall Insulation - Electric Heat	2,095.02	0.24	0.00	$1,280	$600	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Rim Joist Insulation - Electric Heat	381.61	0.03	0.00	$363	$145	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Crawl Space Insulation - Electric Heat	1,000.80	0.06	0.00	$1,088	$290	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Air Sealing - Gas Heat Only	173.25	0.00	189.00	$1,181	$473	0.80	0.80	0.80	0.79	0.79	0.79	0.80	0.80	0.80
Ceiling Insulation (R-11 to R-49) - Gas Heat Only	87.50	0.00	87.50	$1,500	$500	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Ceiling Insulation (R-19 to R-49) - Gas Heat Only	58.80	0.00	58.80	$1,375	$441	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
R-11 Wall Insulation - Gas Heat Only	128.00	0.00	144.00	$1,280	$600	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Rim Joist Insulation - Gas Heat Only	24.65	0.00	27.55	$363	$145	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Crawl Space Insulation - Gas Heat Only	65.25	0.00	71.05	$1,088	$290	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Air Sealing - Gas Heat w/ AC	1,354.50	1.42	189.00	$1,181	$473	0.80	0.80	0.80	0.79	0.79	0.79	0.80	0.80	0.80
Ceiling Insulation (R-11 to R-49) - Gas Heat w/ AC	225.00	0.13	87.50	$1,500	$500	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Ceiling Insulation (R-19 to R-49) - Gas Heat w/ AC	132.30	0.15	58.80	$1,375	$441	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
R-11 Wall Insulation - Gas Heat w/ AC	312.00	0.24	144.00	$1,280	$600	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Rim Joist Insulation - Gas Heat w/ AC	47.85	0.03	27.55	$363	$145	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77
Crawl Space Insulation - Gas Heat w/ AC	105.85	0.06	71.05	$1,088	$290	0.77	0.77	0.77	0.79	0.79	0.79	0.77	0.77	0.77

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
CFL 43w to 14w - Post-EISA	10,101	10,101	10,101	23.03	23.03	23.03	-0.49	-0.49	-0.49
CFL 53w to 19w - Post-EISA	2,730	2,730	2,730	27.00	27.00	27.00	-0.57	-0.57	-0.57
CFL 72w to 23w - Post-EISA	2,184	2,184	2,184	38.91	38.91	38.91	-0.83	-0.83	-0.83
CFL 60w to 14w globe - Pre-EISA	6,825	6,825	6,825	48.28	48.28	48.28	-0.78	-0.78	-0.78
CFL 60w to 14w candelabra - Pre-EISA	6,825	6,825	6,825	51.71	51.71	51.71	-0.78	-0.78	-0.78
CFL 60w to 14w reflector - Pre-EISA	9,555	9,555	9,555	36.52	36.52	36.52	-0.78	-0.78	-0.78
Showerhead 1.75 gpm - Electric DHW	191	191	191	301.64	301.64	301.64	0.00	0.00	0.00
Faucet Aerator - Electric DHW	328	328	328	32.51	32.51	32.51	0.00	0.00	0.00
Water Heater Temp Adjustment - Electric DHW	164	164	164	86.40	86.40	86.40	0.00	0.00	0.00
Showerhead 1.75 gpm - Gas DHW	1,525	1,525	1,525	0.00	0.00	0.00	12.36	12.36	12.36
Faucet Aerator - Gas DHW	2,467	2,467	2,467	0.00	0.00	0.00	1.36	1.36	1.36
Water Heater Temp Adjustment - Gas DHW	1,201	1,201	1,201	0.00	0.00	0.00	6.40	6.40	6.40
Air Sealing - Electric Heat	88	88	88	3,023.37	3,023.37	3,023.37	0.00	0.00	0.00
Ceiling Insulation (R-11 to R-49) - Electric Heat	61	61	61	1,170.84	1,170.84	1,170.84	0.00	0.00	0.00
Ceiling Insulation (R-19 to R-49) - Electric Heat	18	18	18	651.18	651.18	651.18	0.00	0.00	0.00
R-11 Wall Insulation - Electric Heat	46	46	46	1,613.17	1,613.17	1,613.17	0.00	0.00	0.00
Rim Joist Insulation - Electric Heat	55	55	55	293.84	293.84	293.84	0.00	0.00	0.00
Crawl Space Insulation - Electric Heat	9	9	9	770.62	770.62	770.62	0.00	0.00	0.00
Air Sealing - Gas Heat Only	600	600	600	138.60	138.60	138.60	151.20	151.20	151.20
Ceiling Insulation (R-11 to R-49) - Gas Heat Only	320	320	320	67.38	67.38	67.38	67.38	67.38	67.38
Ceiling Insulation (R-19 to R-49) - Gas Heat Only	94	94	94	45.28	45.28	45.28	45.28	45.28	45.28
R-11 Wall Insulation - Gas Heat Only	310	310	310	98.56	98.56	98.56	110.88	110.88	110.88
Rim Joist Insulation - Gas Heat Only	320	320	320	18.98	18.98	18.98	21.21	21.21	21.21
Crawl Space Insulation - Gas Heat Only	62	62	62	50.24	50.24	50.24	54.71	54.71	54.71
Air Sealing - Gas Heat w/ AC	2,178	2,178	2,178	1,083.60	1,083.60	1,083.60	151.20	151.20	151.20
Ceiling Insulation (R-11 to R-49) - Gas Heat w/ AC	1,513	1,513	1,513	173.25	173.25	173.25	67.38	67.38	67.38
Ceiling Insulation (R-19 to R-49) - Gas Heat w/ AC	459	459	459	101.87	101.87	101.87	45.28	45.28	45.28
R-11 Wall Insulation - Gas Heat w/ AC	1,147	1,147	1,147	240.24	240.24	240.24	110.88	110.88	110.88
Rim Joist Insulation - Gas Heat w/ AC	1,376	1,376	1,376	36.84	36.84	36.84	21.21	21.21	21.21
Crawl Space Insulation - Gas Heat w/ AC	229	229	229	81.50	81.50	81.50	54.71	54.71	54.71

Residential Energy Star New Homes

Measure Characterization

Measure	Fuel	Baseline Description	Efficient Description	Measure life
Rated Home - gas heat only, HERS <=60	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
Rated Home - gas heat, HERS <=60	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
Rated Home - electric heat, HERS <=60	Elec	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Home - gas heat only, HERS 41-60	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Home - gas heat, HERS 41-60	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Home - electric heat, HERS 41-60	Elec	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Home - gas heat only, HERS <=40	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Home - gas heat, HERS <=40	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Home - electric heat, HERS <=40	Elec	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
Rated Multifamily Unit - gas heat only, HERS <=60	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
Rated Multifamily Unit - gas heat, HERS <=60	Elec&Gas	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
Rated Multifamily Unit - electric heat, HERS <=60	Elec	Home built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Multifamily Unit - gas heat only, HERS 41-60	Elec&Gas	Multifamily Unit built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Multifamily Unit - gas heat, HERS 41-60	Elec&Gas	Multifamily Unit built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Multifamily Unit - electric heat, HERS 41-60	Elec	Multifamily Unit built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Multifamily Unit - gas heat only, HERS <=40	Elec&Gas	Multifamily Unit built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Multifamily Unit - gas heat, HERS <=40	Elec&Gas	Multifamily Unit built to 2012 Illinois Energy Code	ENERGY STAR Home	30
E-Star Multifamily Unit - electric heat, HERS <=40	Elec	Multifamily Unit built to 2012 Illinois Energy Code	ENERGY STAR Home	30

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Rated Home - gas heat only, HERS <=60	2,070.00	0.86	138.00	$2,700	$500	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Rated Home - gas heat, HERS <=60	2,070.00	0.86	138.00	$2,700	$800	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Rated Home - electric heat, HERS <=60	3,450.00	0.86	0.00	$3,000	$800	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Home - gas heat only, HERS 41-60	2,670.00	1.11	178.00	$3,000	$600	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Home - gas heat, HERS 41-60	2,670.00	1.11	178.00	$3,000	$1,200	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Home - electric heat, HERS 41-60	4,450.00	1.11	0.00	$3,500	$1,200	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Home - gas heat only, HERS <=40	4,470.00	1.86	298.00	$3,500	$600	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Home - gas heat, HERS <=40	4,470.00	1.86	298.00	$3,500	$2,400	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Home - electric heat, HERS <=40	7,450.00	1.86	0.00	$4,000	$2,400	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Rated Multifamily Unit - gas heat only, HERS <=60	1,101.00	0.46	78.00	$1,500	$300	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Rated Multifamily Unit - gas heat, HERS <=60	1,101.00	0.46	78.00	$1,500	$500	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Rated Multifamily Unit - electric heat, HERS <=60	1,835.00	0.46	0.00	$1,800	$500	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Multifamily Unit - gas heat only, HERS 41-60	1,420.44	0.59	99.96	$1,800	$400	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Multifamily Unit - gas heat, HERS 41-60	1,420.44	0.59	99.96	$1,800	$800	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Multifamily Unit - electric heat, HERS 41-60	2,367.40	0.59	0.00	$2,100	$800	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Multifamily Unit - gas heat only, HERS <=40	2,378.04	0.99	167.36	$2,100	$800	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Multifamily Unit - gas heat, HERS <=40	2,378.04	0.99	167.36	$2,100	$1,600	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
E-Star Multifamily Unit - electric heat, HERS <=40	3,963.40	0.99	0.00	$2,400	$1,600	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Rated Home - gas heat only, HERS <=60	24	24	24	1,656.00	1,656.00	1,656.00	110.40	110.40	110.40
Rated Home - gas heat, HERS <=60	48	48	48	1,656.00	1,656.00	1,656.00	110.40	110.40	110.40
Rated Home - electric heat, HERS <=60	24	24	24	2,760.00	2,760.00	2,760.00	0.00	0.00	0.00
E-Star Home - gas heat only, HERS 41-60	12	12	12	2,136.00	2,136.00	2,136.00	142.40	142.40	142.40
E-Star Home - gas heat, HERS 41-60	24	24	24	2,136.00	2,136.00	2,136.00	142.40	142.40	142.40
E-Star Home - electric heat, HERS 41-60	24	24	24	3,560.00	3,560.00	3,560.00	0.00	0.00	0.00
E-Star Home - gas heat only, HERS <=40	0	0	0	3,576.00	3,576.00	3,576.00	238.40	238.40	238.40
E-Star Home - gas heat, HERS <=40	12	12	12	3,576.00	3,576.00	3,576.00	238.40	238.40	238.40
E-Star Home - electric heat, HERS <=40	24	24	24	5,960.00	5,960.00	5,960.00	0.00	0.00	0.00
Rated Multifamily Unit - gas heat only, HERS <=60	24	24	24	880.80	880.80	880.80	62.40	62.40	62.40
Rated Multifamily Unit - gas heat, HERS <=60	60	60	60	880.80	880.80	880.80	62.40	62.40	62.40
Rated Multifamily Unit - electric heat, HERS <=60	36	36	36	1,468.00	1,468.00	1,468.00	0.00	0.00	0.00
E-Star Multifamily Unit - gas heat only, HERS 41-60	12	12	12	1,136.35	1,136.35	1,136.35	79.97	79.97	79.97
E-Star Multifamily Unit - gas heat, HERS 41-60	24	24	24	1,136.35	1,136.35	1,136.35	79.97	79.97	79.97
E-Star Multifamily Unit - electric heat, HERS 41-60	48	48	48	1,893.92	1,893.92	1,893.92	0.00	0.00	0.00
E-Star Multifamily Unit - gas heat only, HERS <=40	0	0	0	1,902.43	1,902.43	1,902.43	133.89	133.89	133.89
E-Star Multifamily Unit - gas heat, HERS <=40	12	12	12	1,902.43	1,902.43	1,902.43	133.89	133.89	133.89
E-Star Multifamily Unit - electric heat, HERS <=40	24	24	24	3,170.72	3,170.72	3,170.72	0.00	0.00	0.00

Residential Multifamily

Measure Characterization

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
In-Unit Integral CFL 43w to 14w - Post-EISA	5.5.1; 14W CFL	Elec	Lighting	43W Halogen	Energy Efficient Lighting	5
In-Unit Integral CFL 53w to 19w - Post-EISA	5.5.1; 19W CFL	Elec	Lighting	53W Halogen	Energy Efficient Lighting	5
In-Unit Integral CFL 72w to 23w - Post-EISA	5.5.1; 23W CFL	Elec	Lighting	72W Halogen	Energy Efficient Lighting	5
In-Unit Showerhead - Electric DHW	5.4.5; 1.75 gpm	Elec	Hot Water	2.5+ gpm Showerhead	Less water usage	10
In-Unit Faucet Aerator - Electric DHW	5.4.4; 2.2 gpm kitchen, 1.5 bath	Elec	Hot Water	Standard Aerator (2.75+ gpm kitchen, 2.25+ gpm bath)	Less water usage	9
In-Unit Showerhead 1.75 gpm - Gas DHW	5.4.5; 1.75 gpm	Gas	Hot Water	2.5+ gpm Showerhead	1.75 gpm	10
In-Unit Faucet Aerator - Gas DHW	5.4.4; 2.2 gpm kitchen, 1.5 bath	Gas	Hot Water	Standard Aerator (2.75+ gpm kitchen, 2.25+ gpm bath)	Less water usage	9
In-Unit Programmable Thermostat - Electric Heat	5.3.10	Elec	HVAC	Manual setting thermostat	Thermostat Setback	5
In-Unit Programmable Thermostat - Gas Heat	5.3.10	Elec&Gas	HVAC	Manual setting thermostat	Thermostat Setback	5
CAL Modular CFL, pin-based fixture	5.5.5; default savings based replacing 72W w/ 25W, actual savings to be custom	Elec	Lighting	Incandescent interior fixture	CFL bulbs and fixtures	7
CAL Modular CFL exterior, pin-based fixture	5.5.4; default savings based replacing 72W w/ 25W, actual savings to be custom	Elec	Lighting	Incandescent exterior fixture	CFL bulbs and fixtures	7
CAL 4' HP T8 25W lamp w/ electronic ballast	4.5.4; re-ballast and re-lamp	Elec	Lighting	T8 32W lamp w/ electronic ballast	Energy Efficient Lighting	15
CAL 4' HP T8 25W lamp w/ elec. ballast & reflector	4.5.4; replace entire fixture	Elec	Lighting	T8 32W lamp w/ electronic ballast	Energy Efficient Lighting	15
CAL Occupancy Sensor	4.5.10; default savings based on controlling 60W (four 15W CFLs), actual savings to be custom	Elec	Lighting	No sensor	Lighting Controls	8

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
CAL LED Exit Sign	5.5.7; default savings based on replacing 35W sign w/ 2W sign, actual savings to be custom	Elec	Lighting	Incandescent or CFL Exit Sign	Energy Efficient Lighting	16
Air Sealing - Electric Heat	5.6.1; average 5550 CFM reduction	Elec	Insulation	Existing infiltration	Upgraded insulation	15
Ceiling Insulation R-11 to R-49 - Electric Heat	5.6.4; add insulation to R49, average 4000 SF	Elec	Insulation	R11 or less existing insulation	Upgraded insulation	25
Ceiling Insulation R-19 to R-49 - Electric Heat	5.6.4; add insulation to R49, average 4000 SF	Elec	Insulation	R19 or less existing insulation	Upgraded insulation	25

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
In-Unit Integral CFL 43w to 14w - Post-EISA	27.41	0.00	-0.56	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Integral CFL 53w to 19w - Post-EISA	32.14	0.00	-0.65	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Integral CFL 72w to 23w - Post-EISA	46.32	0.00	-0.94	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Showerhead - Electric DHW	415.49	0.03	0.00	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Faucet Aerator - Electric DHW	53.05	0.01	0.00	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Showerhead 1.75 gpm - Gas DHW	0.00	0.00	20.61	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Faucet Aerator - Gas DHW	0.00	0.00	2.61	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Programmable Thermostat - Electric Heat	837.09	0.00	0.00	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Unit Programmable Thermostat - Gas Heat	26.95	0.00	29.30	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAL Modular CFL, pin-based fixture	250.87	0.04	-6.00	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAL Modular CFL exterior, pin-based fixture	74.83	0.00	-1.79	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAL 4' HP T8 25W lamp w/ electronic ballast	55.81	0.01	-1.33	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAL 4' HP T8 25W lamp w/ elec. ballast & reflector	55.81	0.01	-1.33	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAL Occupancy Sensor	196.14	0.06	-4.69	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAL LED Exit Sign	259.33	0.04	-6.20	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Air Sealing - Electric Heat	15,969.04	3.18	0.00	$2,775	$2,775	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation R-11 to R-49 - Electric Heat	6,753.90	0.36	0.00	$2,800	$2,800	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation R-19 to R-49 - Electric Heat	3,208.50	0.23	0.00	$2,800	$2,800	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
In-Unit Integral CFL 43w to 14w - Post-EISA	57,120	57,120	57,120	27.41	27.41	27.41	-0.56	-0.56	-0.56
In-Unit Integral CFL 53w to 19w - Post-EISA	49,980	49,980	49,980	32.14	32.14	32.14	-0.65	-0.65	-0.65
In-Unit Integral CFL 72w to 23w - Post-EISA	214	214	214	46.32	46.32	46.32	-0.94	-0.94	-0.94
In-Unit Showerhead - Electric DHW	3,150	3,150	3,150	415.49	415.49	415.49	0.00	0.00	0.00
In-Unit Faucet Aerator - Electric DHW	5,880	5,880	5,880	53.05	53.05	53.05	0.00	0.00	0.00
In-Unit Showerhead 1.75 gpm - Gas DHW	3,780	3,780	3,780	0.00	0.00	0.00	20.61	20.61	20.61
In-Unit Faucet Aerator - Gas DHW	6,300	6,300	6,300	0.00	0.00	0.00	2.61	2.61	2.61
In-Unit Programmable Thermostat - Electric Heat	1,680	1,680	1,680	837.09	837.09	837.09	0.00	0.00	0.00
In-Unit Programmable Thermostat - Gas Heat	840	840	840	26.95	26.95	26.95	29.30	29.30	29.30
CAL Modular CFL, pin-based fixture	0	0	0	250.87	250.87	250.87	-6.00	-6.00	-6.00
CAL Modular CFL exterior, pin-based fixture	0	0	0	74.83	74.83	74.83	-1.79	-1.79	-1.79
CAL 4' HP T8 25W lamp w/ electronic ballast	0	0	0	55.81	55.81	55.81	-1.33	-1.33	-1.33
CAL 4' HP T8 25W lamp w/ elec. ballast & reflector	0	0	0	55.81	55.81	55.81	-1.33	-1.33	-1.33
CAL Occupancy Sensor	0	0	0	196.14	196.14	196.14	-4.69	-4.69	-4.69
CAL LED Exit Sign	0	0	0	259.33	259.33	259.33	-6.20	-6.20	-6.20
Air Sealing - Electric Heat	0	0	0	15,969.04	15,969.04	15,969.04	0.00	0.00	0.00
Ceiling Insulation R-11 to R-49 - Electric Heat	0	0	0	6,753.90	6,753.90	6,753.90	0.00	0.00	0.00
Ceiling Insulation R-19 to R-49 - Electric Heat	0	0	0	3,208.50	3,208.50	3,208.50	0.00	0.00	0.00

Residential Behavior Modification

Measure Characterization

Measure	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Behavior Modification Group 1	Elec&Gas	Miscellaneous	Non-treated group	Energy Efficient Behavior	1
Behavior Modification Group 2	Elec&Gas	Miscellaneous	Non-treated group	Energy Efficient Behavior	1

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Behavior Modification Group 1	167.70	0.04	9.70	0	0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Behavior Modification Group 2	179.30	0.04	11.70	0	0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Behavior Modification Group 1	62,500	62,500	62,500	167.70	167.70	167.70	9.70	9.70	9.70
Behavior Modification Group 2	62,500	62,500	62,500	179.30	179.30	179.30	11.70	11.70	11.70

Residential Moderate Income Retrofit

Measure Characterization

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
CFL 43w to 14w - Post-EISA	5.5.1; 14W CFL	Elec	Lighting	43W Halogen	Energy Efficient Lighting	5
CFL 53w to 19w - Post-EISA	5.5.1; 19W CFL	Elec	Lighting	53W Halogen	Energy Efficient Lighting	5
CFL 72w to 23w - Post-EISA	5.5.1; 23W CFL	Elec	Lighting	72W Halogen	Energy Efficient Lighting	5
CFL 60w to 14w globe - Pre-EISA	5.5.2; 14W CFL	Elec	Lighting	60W Incandescent	Energy Efficient Lighting	7
CFL 60w to 14w candelabra - Pre-EISA	5.5.2; 14W CFL	Elec	Lighting	60W Incandescent	Energy Efficient Lighting	7
CFL 60w to 14w reflector - Pre-EISA	5.5.2; 14W CFL	Elec	Lighting	60W Incandescent	Energy Efficient Lighting	7
Showerhead 1.75 gpm - Electric DHW	5.4.5; 1.75 gpm	Elec	Hot Water	2.5+ gpm Showerhead	Reduced water usage	10
Faucet Aerator - Electric DHW	5.4.4; 2.2 gpm kitchen, 1.5 bath	Elec	Hot Water	Standard Aerator (2.75+ gpm kitchen, 2.25+ gpm bath)	Reduced water usage	9
Water Heater Temp Adjustment - Electric DHW	5.4.6; Setting of 120 degrees	Elec	Hot Water	Setting of 130+ degrees	Reduced water usage	2
Showerhead 1.75 gpm - Gas DHW	5.4.5; 1.75 gpm	Gas	Hot Water	2.5+ gpm Showerhead	Reduced water usage	10
Faucet Aerator - Gas DHW	5.4.4; 2.2 gpm kitchen, 1.5 bath	Gas	Hot Water	Standard Aerator (2.75+ gpm kitchen, 2.25+ gpm bath)	Reduced water usage	9
Water Heater Temp Adjustment - Gas DHW	5.4.6; Setting of 120 degrees	Gas	Hot Water	Setting of 130+ degrees	Reduced water usage	2
Air Sealing - Electric Heat	5.6.1; average 1400 CFM reduction	Elec	Insulation	Existing infiltration	Upgraded insulation	15
Ceiling Insulation (R-11 to R-49) - Electric Heat	5.6.4; add insulation to R49, average 1000 SF	Elec	Insulation	R11 or less existing insulation	Upgraded insulation	25
Ceiling Insulation (R-19 to R-49) - Electric Heat	5.6.4; add insulation to R49, average 1000 SF	Elec	Insulation	R19 or less existing insulation	Upgraded insulation	25
R-11 Wall Insulation - Electric Heat	5.6.4; fill cavity w/ dense-pack cellulose, average 800 SF	Elec	Insulation	Empty wall cavity	Upgraded insulation	25

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Rim Joist Insulation - Electric Heat	5.6.4; add R11 insulation, average 140 LF	Elec	Insulation	Uninsulated rim joist	Upgraded insulation	25
Crawl Space Insulation - Electric Heat	5.6.2; add R11 insulation, average 140 LF, 3' high crawl space	Elec	Insulation	Uninsulated crawl space wall	Upgraded insulation	25
Basement Wall Insulation - Electric Heat	5.6.2; add R11 insulation to upper 4' of wall, average 140 LF, 7' high crawl space	Elec	Insulation	Uninsulated basement wall	Upgraded insulation	25
Air Sealing - Gas Heat Only	5.6.1; average 1400 CFM reduction	Elec&Gas	Insulation	Existing infiltration	Upgraded insulation	15
Ceiling Insulation (R-11 to R-49) - Gas Heat Only	5.6.4; add insulation to R49, average 1000 SF	Elec&Gas	Insulation	R11 or less existing insulation	Upgraded insulation	25
Ceiling Insulation (R-19 to R-49) - Gas Heat Only	5.6.4; add insulation to R49, average 1000 SF	Elec&Gas	Insulation	R19 or less existing insulation	Upgraded insulation	25
R-11 Wall Insulation - Gas Heat Only	5.6.4; fill cavity w/ dense-pack cellulose, average 800 SF	Elec&Gas	Insulation	Empty wall cavity	Upgraded insulation	25
Rim Joist Insulation - Gas Heat Only	5.6.4; add R11 insulation, average 140 LF	Elec&Gas	Insulation	Uninsulated rim joist	Upgraded insulation	25
Crawl Space Insulation - Gas Heat Only	5.6.2; add R11 insulation, average 140 LF, 3' high crawl space	Elec&Gas	Insulation	Uninsulated crawl space wall	Upgraded insulation	25
Basement Wall Insulation - Gas Heat Only	5.6.2; add R11 insulation to upper 4' of wall, average 140 LF, 7' high crawl space	Elec&Gas	Insulation	Uninsulated basement wall	Upgraded insulation	25
Air Sealing - Gas Heat w/ AC	5.6.1; average 1400 CFM reduction	Elec&Gas	Insulation	Existing infiltration	Upgraded insulation	15
Ceiling Insulation (R-11 to R-49) - Gas Heat w/ AC	5.6.4; add insulation to R49, average 1000 SF	Elec&Gas	Insulation	R11 or less existing insulation	Upgraded insulation	25
Ceiling Insulation (R-19 to R-49) - Gas Heat w/ AC	5.6.4; add insulation to R49, average 1000 SF	Elec&Gas	Insulation	R19 or less existing insulation	Upgraded insulation	25

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
R-11 Wall Insulation - Gas Heat w/ AC	5.6.4; fill cavity w/ dense-pack cellulose, average 800 SF	Elec&Gas	Insulation	Empty wall cavity	Upgraded insulation	25
Rim Joist Insulation - Gas Heat w/ AC	5.6.4; add R11 insulation, average 140 LF	Elec&Gas	Insulation	Uninsulated rim joist	Upgraded insulation	25
Crawl Space Insulation - Gas Heat w/ AC	5.6.2; add R11 insulation, average 140 LF, 3' high crawl space	Elec&Gas	Insulation	Uninsulated crawl space wall	Upgraded insulation	25
Basement Wall Insulation - Gas Heat w/ AC	5.6.2; add R11 insulation to upper 4' of wall, average 140 LF, 7' high crawl space	Elec&Gas	Insulation	Uninsulated basement wall	Upgraded insulation	25
CAC 14.5+ SEER	5.3.2; new CAC	Elec	HVAC	CAC 13 SEER	SEER 14.5+	18
ER CAC 14.5+	5.3.2; Early Replacement of existing CAC	Elec	HVAC	CAC 8.6 SEER	SEER 14.5+	18
ASHP 14.5+ SEER	5.3.1; new ASHP	Elec	HVAC	ASHP 13.0 SEER 7.7 HSPF	SEER 14.5+	18
ER ASHP 14.5+ SEER (Replace ASHP)	5.3.1; Early Replacement of existing ASHP	Elec	HVAC	ASHP 9.12 SEER 5.44 HSPF	SEER 14.5+	18
ER ASHP 14.5+ SEER (Replace Resistance)	5.3.1; Early Retirement of resistance heat, addition of ASHP	Elec	HVAC	Electric Resistance Heat	SEER 14.5+	18
Programmable Thermostat - Electric Heat Pump	5.3.10	Elec	HVAC	Manual setting thermostat	Thermostat Setback	5
Furnace 95% AFUE - Gas Heat	5.3.6; new furnace	Gas	HVAC	Furnace 80% AFUE	AFUE 95%	20
Furnace ER 95% AFUE - Gas Heat	5.3.6; Early Replacement of existing furnace	Gas	HVAC	Furnace 64.4% AFUE	AFUE 95%	20
Boiler 90% AFUE	5.3.5; new boiler	Gas	HVAC	Boiler 82% AFUE	AFUE 90%	25
Boiler ER 90% AFUE	5.3.5; Early Replacement of existing boiler	Gas	HVAC	Boiler 61.6% AFUE	AFUE 90%	25
Programmable Thermostat - Gas Heat	5.3.10	Elec&Gas	HVAC	Manual setting thermostat	Thermostat Setback	5

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
CFL 43w to 14w - Post-EISA	26.17	0.00	-0.56	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CFL 53w to 19w - Post-EISA	30.68	0.00	-0.65	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CFL 72w to 23w - Post-EISA	44.21	0.01	-0.94	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CFL 60w to 14w globe - Pre-EISA	54.87	0.01	-0.88	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CFL 60w to 14w candelabra - Pre-EISA	58.76	0.01	-0.88	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CFL 60w to 14w reflector - Pre-EISA	41.50	0.00	-0.88	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Showerhead 1.75 gpm - Electric DHW	367.85	0.02	0.00	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Faucet Aerator - Electric DHW	42.22	0.02	0.00	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Heater Temp Adjustment - Electric DHW	86.40	0.01	0.00	$5	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Showerhead 1.75 gpm - Gas DHW	0.00	0.00	15.64	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Faucet Aerator - Gas DHW	0.00	0.00	1.89	$0	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Heater Temp Adjustment - Gas DHW	0.00	0.00	6.40	$5	$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Air Sealing - Electric Heat	3,683.75	1.10	0.00	$1,050	$700	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation (R-11 to R-49) - Electric Heat	1,411.25	0.09	0.00	$1,200	$700	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation (R-19 to R-49) - Electric Heat	668.75	0.09	0.00	$1,100	$500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R-11 Wall Insulation - Electric Heat	2,437.00	0.21	0.00	$1,280	$960	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Rim Joist Insulation - Electric Heat	431.90	0.02	0.00	$350	$140	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Crawl Space Insulation - Electric Heat	1,137.50	0.05	0.00	$1,050	$280	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Basement Wall Insulation - Electric Heat	1,224.95	0.05	0.00	$1,400	$420	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Air Sealing - Gas Heat Only	154.00	0.00	170.64	$1,050	$700	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation (R-11 to R-49) - Gas Heat Only	70.00	0.00	80.82	$1,200	$700	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation (R-19 to R-49) - Gas Heat Only	40.00	0.00	38.28	$1,100	$500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R-11 Wall Insulation - Gas Heat Only	128.00	0.00	140.38	$1,280	$960	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Rim Joist Insulation - Gas Heat Only	23.80	0.00	25.43	$350	$140	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Crawl Space Insulation - Gas Heat Only	63.00	0.00	68.06	$1,050	$280	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Basement Wall Insulation - Gas Heat Only	67.55	0.00	73.42	$1,400	$420	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Air Sealing - Gas Heat w/ AC	1,204.00	1.26	170.64	$1,050	$700	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation (R-11 to R-49) - Gas Heat w/ AC	180.00	0.10	80.82	$1,200	$700	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ceiling Insulation (R-19 to R-49) - Gas Heat w/ AC	90.00	0.10	38.28	$1,100	$500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R-11 Wall Insulation - Gas Heat w/ AC	312.00	0.24	140.38	$1,280	$960	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Rim Joist Insulation - Gas Heat w/ AC	46.20	0.03	25.43	$350	$140	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Crawl Space Insulation - Gas Heat w/ AC	102.20	0.06	68.06	$1,050	$280	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Basement Wall Insulation - Gas Heat w/ AC	106.91	0.06	73.42	$1,400	$420	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CAC 14.5+ SEER	195.18	0.20	0.00	$501	$1,000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ER CAC 14.5+	516.96	0.54	0.00	$1,238	$1,000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ASHP 14.5+ SEER	980.94	0.21	0.00	$618	$1,500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ER ASHP 14.5+ SEER (Replace ASHP)	2,403.23	0.51	0.00	$1,546	$1,500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
ER ASHP 14.5+ SEER (Replace Resistance)	4,702.93	0.51	0.00	$1,546	$1,500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Programmable Thermostat - Electric Heat Pump	407.81	0.00	0.00	$30	$50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Furnace 95% AFUE - Gas Heat	0.00	0.00	136.18	$1,511	$750	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Furnace ER 95% AFUE - Gas Heat	0.00	0.00	198.86	$1,889	$750	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Boiler 90% AFUE	0.00	0.00	144.38	$1,272	$1,500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Boiler ER 90% AFUE	0.00	0.00	279.18	$2,395	$1,500	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Programmable Thermostat - Gas Heat	30.56	0.00	33.21	$30	$50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
CFL 43w to 14w - Post-EISA	1,170	1,170	1,170	26.17	26.17	26.17	-0.56	-0.56	-0.56
CFL 53w to 19w - Post-EISA	585	585	585	30.68	30.68	30.68	-0.65	-0.65	-0.65
CFL 72w to 23w - Post-EISA	488	488	488	44.21	44.21	44.21	-0.94	-0.94	-0.94
CFL 60w to 14w globe - Pre-EISA	975	975	975	54.87	54.87	54.87	-0.88	-0.88	-0.88
CFL 60w to 14w candelabra - Pre-EISA	975	975	975	58.76	58.76	58.76	-0.88	-0.88	-0.88
CFL 60w to 14w reflector - Pre-EISA	1,365	1,365	1,365	41.50	41.50	41.50	-0.88	-0.88	-0.88
Showerhead 1.75 gpm - Electric DHW	6	6	6	367.85	367.85	367.85	0.00	0.00	0.00
Faucet Aerator - Electric DHW	6	6	6	42.22	42.22	42.22	0.00	0.00	0.00
Water Heater Temp Adjustment - Electric DHW	6	6	6	86.40	86.40	86.40	0.00	0.00	0.00
Showerhead 1.75 gpm - Gas DHW	234	234	234	0.00	0.00	0.00	15.64	15.64	15.64
Faucet Aerator - Gas DHW	195	195	195	0.00	0.00	0.00	1.89	1.89	1.89
Water Heater Temp Adjustment - Gas DHW	98	98	98	0.00	0.00	0.00	6.40	6.40	6.40
Air Sealing - Electric Heat	8	8	8	3,683.75	3,683.75	3,683.75	0.00	0.00	0.00
Ceiling Insulation (R-11 to R-49) - Electric Heat	6	6	6	1,411.25	1,411.25	1,411.25	0.00	0.00	0.00
Ceiling Insulation (R-19 to R-49) - Electric Heat	1	1	1	668.75	668.75	668.75	0.00	0.00	0.00
R-11 Wall Insulation - Electric Heat	4	4	4	2,437.00	2,437.00	2,437.00	0.00	0.00	0.00
Rim Joist Insulation - Electric Heat	5	5	5	431.90	431.90	431.90	0.00	0.00	0.00
Crawl Space Insulation - Electric Heat	1	1	1	1,137.50	1,137.50	1,137.50	0.00	0.00	0.00
Basement Wall Insulation - Electric Heat	1	1	1	1,224.95	1,224.95	1,224.95	0.00	0.00	0.00
Air Sealing - Gas Heat Only	16	16	16	154.00	154.00	154.00	170.64	170.64	170.64
Ceiling Insulation (R-11 to R-49) - Gas Heat Only	12	12	12	70.00	70.00	70.00	80.82	80.82	80.82
Ceiling Insulation (R-19 to R-49) - Gas Heat Only	2	2	2	40.00	40.00	40.00	38.28	38.28	38.28
R-11 Wall Insulation - Gas Heat Only	7	7	7	128.00	128.00	128.00	140.38	140.38	140.38
Rim Joist Insulation - Gas Heat Only	10	10	10	23.80	23.80	23.80	25.43	25.43	25.43
Crawl Space Insulation - Gas Heat Only	2	2	2	63.00	63.00	63.00	68.06	68.06	68.06
Basement Wall Insulation - Gas Heat Only	2	2	2	67.55	67.55	67.55	73.42	73.42	73.42
Air Sealing - Gas Heat w/ AC	249	249	249	1,204.00	1,204.00	1,204.00	170.64	170.64	170.64
Ceiling Insulation (R-11 to R-49) - Gas Heat w/ AC	187	187	187	180.00	180.00	180.00	80.82	80.82	80.82
Ceiling Insulation (R-19 to R-49) - Gas Heat w/ AC	25	25	25	90.00	90.00	90.00	38.28	38.28	38.28
R-11 Wall Insulation - Gas Heat w/ AC	112	112	112	312.00	312.00	312.00	140.38	140.38	140.38
Rim Joist Insulation - Gas Heat w/ AC	149	149	149	46.20	46.20	46.20	25.43	25.43	25.43
Crawl Space Insulation - Gas Heat w/ AC	25	25	25	102.20	102.20	102.20	68.06	68.06	68.06
Basement Wall Insulation - Gas Heat w/ AC	25	25	25	106.91	106.91	106.91	73.42	73.42	73.42

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
CAC 14.5+ SEER	15	15	15	195.18	195.18	195.18	0.00	0.00	0.00
ER CAC 14.5+	51	51	51	516.96	516.96	516.96	0.00	0.00	0.00
ASHP 14.5+ SEER	0	0	0	980.94	980.94	980.94	0.00	0.00	0.00
ER ASHP 14.5+ SEER (Replace ASHP)	8	8	8	2,403.23	2,403.23	2,403.23	0.00	0.00	0.00
ER ASHP 14.5+ SEER (Replace Resistance)	8	8	8	4,702.93	4,702.93	4,702.93	0.00	0.00	0.00
Programmable Thermostat - Electric Heat Pump	5	5	5	407.81	407.81	407.81	0.00	0.00	0.00
Furnace 95% AFUE - Gas Heat	0	0	0	0.00	0.00	0.00	136.18	136.18	136.18
Furnace ER 95% AFUE - Gas Heat	179	179	179	0.00	0.00	0.00	198.86	198.86	198.86
Boiler 90% AFUE	0	0	0	0.00	0.00	0.00	144.38	144.38	144.38
Boiler ER 90% AFUE	13	13	13	0.00	0.00	0.00	279.18	279.18	279.18
Programmable Thermostat - Gas Heat	132	132	132	30.56	30.56	30.56	33.21	33.21	33.21

School Kits

Measure Characterization

Measure	Fuel	End Use	Baseline Description	Efficient Description	Measure life
School Kit		Misc.			7

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
School Kit	85.48	0.011	11.37	$0.00	$0.00	85%	85%	85%	85%	85%	85%	85%	85%	85%

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
School Kit	5,000	5,000	5,000	363,290	363,290	363,290	48,323	48,323	48,323

Business Standard Incentive Program

Measure Characterization, DS3 & DS2

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Highbay Fixture Replacement Option	4.5.3 Table: A-2: Retrofit HPT8 New and Baseline Assumptions & 4.5.10 A-1: Time of Sale: T5 New and Baseline Assumptions	Elec	Lighting	200w PSMH 250w metal halide 320w PSMH 400w metal halide	Energy Efficient Lighting	15
T8 U-tube Lamps and Ballasts Replacing T12 U-bend Lamps and Ballasts	4.5.3 F34T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ mag. Ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
New, high performance T8 (32W) lamps and ballasts replacing existing T12 lamps and ballasts	4.5.3 F34T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ mag. Ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
Reduced wattage T8 (28W) lamps and ballasts replacing existing T12 lamps and ballasts	4.5.3 F34T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ mag. Ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
Ultra-low wattage T8 (25W) lamps and ballasts replacing existing T12 lamps and ballasts	4.5.3 F34T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ mag. Ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
T5 or reduced wattage T8 relamp and reballast upgrading an existing 32W T8	4.5.10 and 4.5.3 A-2: Retrofit HPT8 New and Baseline Assumptions and A-2: Retrofit T5 New and Baseline Assumptions	Elec	Lighting	Existing system	Energy Efficient Lighting	15
2-foot T8 lamps (17W) and ballasts replacing 2-foot T12 lamps/ballasts OR replacing 4-foot T12 U-tube lamps/ballasts	4.5.3 A– 3: RWT8 New and Baseline Assumptions and B-1: Time of Sale T8 Component Costs and Lifetime	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
New high performance T8 fixture (with or without a reflector) replacing an existing T12 fixture	4.5.3 F34T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ EEMag ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65 F40T12 w/ mag. Ballast - 1 lamp $50, 2 lamp $55, 3 lamp $60, 4 lamp $65	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
New T5 fluorescent replacing an existing T12	4.5.10 A-2: Retrofit T5 New and Baseline Assumptions	Elec	Lighting	Existing system	Energy Efficient Lighting	15
High efficiency T5 or T8 fluorescent fixtures replacing existing T12 recessed or surface mounted troffer (prismatic, parabolic, or semi-indirect fixture)	4.5.10 and 4.5.3 T5 and T8 new fixture cost estimates	Elec	Lighting	Existing system	Energy Efficient Lighting	15
Fixture mounted occupancy sensor for fluorescent or LED systems	4.5.9 Fixture mounted sensor - $125	Elec	Lighting	Lighting system uncontrolled by occupancy	Lighting Controls	8
Remote mounted occupancy sensors using ultrasonic or passive infrared technology	4.5.9 Wall-mounted sensor - $42 Ceiling Mounted sensor - $66	Elec	Lighting	Lighting system uncontrolled by occupancy	Lighting Controls	8
Wall switch plate mounted occupancy sensors using ultrasonic or passive infrared technology	4.5.9 Wall-mounted sensor - $42	Elec	Lighting	Lighting system uncontrolled by occupancy	Lighting Controls	8
Low wattage occupancy sensors or daylight dimming controls	4.5.9 Wall-mounted sensor - $42 Ceiling Mounted sensor - $66	Elec	Lighting	Lighting system uncontrolled by occupancy	Lighting Controls	8
LED lamp	4.5.2 Omnidirectional LED - $28.50 Directional LED - $29-$50	Elec	Lighting	Incandescent, 25-150 watts CFL	LED Lighting	15

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
LED recessed down fixture (18W or less per fixture), replacing 60-100W incandescent lamp	4.5.2 Omnidirectional LED - $28.50 Directional LED - $29-$50	Elec	Lighting	Incandescent, 25-150 watts	LED Lighting	15
Hard wired CFL fixtures replacing existing incandescent fixtures	4.5.1 estimated fixture cost	Elec	Lighting	100w (72w) Incandescent bulb	Compact Fluorescent Lighting	2
Exterior Lighting	4.5.4 & 4.5.5 & 4.5.10 T8 replacing 200W MH - $75 / 86W T8 replacing 320W MH - $75 / 129W T5 replacing 200W MH $100 / 52W T5 replacing 320W MH $100 / 110W LED replacing 200W MH - $200 / 134W	Elec	Lighting	From ActOnEnergy TRM: Exterior HID fixtures, such as mercury vapor, high pressure sodium, metal halide	Energy Efficient Lighting	15
Permanent Fixture/Lamp Removal	4.5.2 SW TRM says $12 per 4-foot lamp removed. Seems a little off. SW TRM also says to assume 30.8 watts reduced on average for 4-foot lamps	Elec	Lighting	From ActOnEnergy TRM: Any type of working existing fixture	Delamping	11
Glass Door LED Cooler/Freezer Lighting	4.5.2 Refrigerated case light - $50/ft 7.6W reduce/ft Freezer case light - $50/ft 11W reduce/ft Display case light - $25/ft 29.1W reduce/ft	Elec	Lighting	Baseline LED refrigerated, freezer, or display case light	Energy Efficient Lighting	15
Glass Door LED cooler/Freezer Lighting Controls/Sensors	4.5.5 Wall-mounted sensor - $42 Ceiling Mounted sensor - $66	Elec	Lighting	Lighting system uncontrolled by occupancy	Energy Efficient Lighting	8
Fixture mounted occupancy sensor or daylighting controls for HID systems	4.5.5 Fixture mounted sensor - $125	Elec	Lighting	Lighting system uncontrolled by occupancy	Energy Efficient Lighting	8
LED, T-1 or electroluminescent exit sign	4.5.5 Fluorescent exit sign - $30 Incandescent exit sign - $30	Elec	Lighting	Fluorescent exit sign Incandescent exit sign	Energy Efficient Lighting	16
LED Exit Sign Retro-fit Kit 6W or less	4.5.5 Fluorescent exit sign - $30 Incandescent exit sign - $30	Elec	Lighting	Fluorescent exit sign Incandescent exit sign	Energy Efficient Lighting	16
Interior LED Lamps and Fixtures	4.5.4 see SW TRM Range from $28.50 - $375, depending on type	Elec	Lighting	Various - see SW TRM for all baseline types Incandescent, baseline LED (all types), T8, PSMH	LED Lighting	15
Air Conditioner Tune-Up	4.4.1 $35/ton	Elec	HVAC	AC system that does not have a standing maintenance contract or a tune-up within the past 36 months	Upgraded HVAC Equipment	3

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Unitary and Split AC Systems and Air Source Heat Pumps (up to 65,000 Btuh input, minimum 15 SEER)	4.4.14 $100/ton	Elec	HVAC	Standard efficiency air-, water-, or evaporatively cooled air conditioner	SEER 15+	15
Unitary and Split AC Systems and Air Source Heat Pumps (65,000 to 134,999 Btuh input, minimum 12 EER)	4.4.14 $100/ton	Elec	HVAC	Standard efficiency air-, water-, or evaporatively cooled air conditioner	SEER 12+	15
Unitary and Split AC Systems and Air Source Heat Pumps (240,000 to 759,999 Btuh input, minimum 10.8 EER/12.0 IPLV)	4.4.14 $100/ton	Elec	HVAC	Standard efficiency air-, water-, or evaporatively cooled air conditioner	EER 10.8+	15
Unitary and Split AC Systems and Air Source Heat Pumps (760,000 or more Btuh input, minimum 10.2 EER/11.0 IPLV)	4.4.14 $100/ton	Elec	HVAC	Standard efficiency air-, water-, or evaporatively cooled air conditioner	EER 10.2+	15
Air-Cooled Chillers (up to 150 tons)	4.4.6 $127/ton	Elec	HVAC	Equipment meeting efficiency requirements of 2009 IECC Table 503.2.3	≤150 tons	20
Unitary and Split AC Systems and Air Source Heat Pumps 135,000 to 239,999 Btuh input, greater than 12.0 EER)	4.4.14 $100/ton	Elec	HVAC	Standard efficiency air-, water-, or evaporatively cooled air conditioner	EER 12+	15
Air-Cooled Chillers (150 tons and larger)	4.4.6 $127/ton	Elec	HVAC	Equipment meeting efficiency requirements of 2009 IECC Table 503.2.3	>150 tons	20
PTAC/PTHP less than 65kBtuh input, new installation	4.4.13 $84/ton	Elec	HVAC	PTAC: 12.5 EER PTHP: 12.3 EER	<65k BTU	15
Variable Frequency Drives on HVAC Motors	4.4.16 Dependent on HP: $1,330-$3,059	Elec	Refrigeration	Motor without a VSD	VFD Motor	15
High Efficiency Tanked Water Heater (electric)	4.3.1 50 gallon - $1,050 80 gallon - $1,050 100 gallon - $1,950	Elec	Hot Water	Electric storage water heater with 50 or more gallon capacity, input wattage 12kW-54kW	High efficiency hot water	5
High Efficiency Tankless Water Heaters (electric)	4.3.4 5 gpm - $1,050 10 gpm - $1,050 15 gpm - $1,950	Elec	Hot Water	Electric commercial-grade tanked water heater 50 or more gallon storage capacity with energy factor less than or equal to 0.9, or unit is more than 5 years old	High efficiency hot water	5
PTAC/PTHP less than 65,000 Btuh input, replacing an existing unit	4.4.13 $84/ton	Elec	HVAC	PTAC: 10.9 EER PTHP: 10.8 EER	<65k BTU	15

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Beverage Machine Control	4.6.2	Elec	Refrigeration	Standard efficiency unit without a control	Standard efficiency unit with a control	5
Snack Machine Control	4.6.2	Elec	Refrigeration	Standard efficiency unit without a control	Standard efficiency unit with a control	5
Automatic Door Closer for Walk-in Freezer/Cooler (back access door) or Walk-in Cooler Door, or Walk-in Freezer Door	4.6.1	Elec	Refrigeration	Cooler or freezer without an automatic closure	Cooler or freezer with an automatic closure	8
Auto Closer for Display Case Door: Reach-in Cooler Door or Reach-in Freezer Door	4.6.1	Elec	Refrigeration	Cooler or freezer without an automatic closure	Cooler or freezer with an automatic closure	8
Strip Curtain on Walk-in Coolers or Freezers	4.6.7 $286.16	Elec	Refrigeration	Cooler or freezer without strip curtains or old inefficient curtains	Case with cover	6
Night Curtain for Open Cooler	From ActOnEnergy TRM: $38	Elec	Refrigeration	From ActOnEnergy TRM: Open case without a cover	Case with cover	5
Glass Door Freezer (31-50 cu ft)	4.2.2	Elec	Refrigeration	Existing unit meeting EPA 2005	Glass Door Freezer	12
Glass Door Freezer (51 cu ft or more)	4.2.2	Elec	Refrigeration	Existing unit meeting EPA 2005	Glass Door Freezer	12
Anti Sweat Heater Control, Freezer	4.6.3 $200 conductivity $300 humidity	Elec	Refrigeration	Cooler or refrigerator with standard heated door with no controls	HVAC Controls	12
Anti Sweat Heater Control, Cooler	4.6.3 $200 conductivity $300 humidity	Elec	Refrigeration	Cooler or refrigerator with standard heated door with no controls	HVAC Controls	12
Evaporator Fan Controls	4.6.6	Elec	Refrigeration	Cooler with continuously running evaporator fan	HVAC Controls	16
Solid Door Freezer (up to 15 cu ft)	4.2.2	Elec	Refrigeration	Existing unit meeting EPA 2005	Solid Door	12
Solid Door Freezer (15-30 cu ft)	4.2.2	Elec	Refrigeration	Existing unit meeting EPA 2005	Solid Door	12
Solid Door Freezer (31-50 cu ft)	4.2.2	Elec	Refrigeration	Existing unit meeting EPA 2005	Solid Door	12
Solid Door Freezer (51 cu ft or more)	4.2.2	Elec	Refrigeration	Existing unit meeting EPA 2005	Solid Door	12
EC Motor for Walk-in Cooler	4.6.4	Elec	Refrigeration	Shaded pole motor	EC Motor	15
EC Motor for Walk-in Freezer	4.6.4	Elec	Refrigeration	Shaded pole motor	EC Motor	15
EC Motor for Reach-In Cooler	4.6.4	Elec	Refrigeration	Shaded pole motor	EC Motor	15
EC Motor for Reach-In Freezer	4.6.4	Elec	Refrigeration	Shaded pole motor	EC Motor	15

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
High Efficiency High Speed Exhaust/Ventilation Fans (24-35 in diameter)	4.1.3	Elec	Agricultural	Existing fan at the end of useful life	Replaced equipment	7
High Efficiency High Speed Exhaust/Ventilation Fans (36-47 in diameter)	4.1.3	Elec	Agricultural	Existing fan at the end of useful life	Replaced equipment	7
High Efficiency High Speed Exhaust/Ventilation Fans (48-71 in diameter)	4.1.3	Elec	Agricultural	Existing fan at the end of useful life	Replaced equipment	7
High Efficiency Circulation Fans (24-35 in diameter)	4.1.3	Elec	Agricultural	Existing fan at the end of useful life	Replaced equipment	7
High Efficiency Circulation Fans (36-47 in diameter)	4.1.3	Elec	Agricultural	Existing fan at the end of useful life	Replaced equipment	7
High Efficiency Circulation Fans (48-71 in diameter)	4.1.3	Elec	Agricultural	Existing fan at the end of useful life	Replaced equipment	7
High Volume Low Speed (HVLS) Fans	4.1.2 $4150 - 20 ft $4180 - 22 ft $4225 - 24 ft	Elec	Agricultural	Multiple non-HVLS fans at the end of useful life	Replaced equipment	10
Equipment Heater Timers	4.1.1	Elec	Agricultural	Manually plugged-in engine block heater	Equipment Controls	3
Live Stock Waterer (electrically heated)	4.1.4	Elec	Hot Water	Electric open waterer with sinking or floating water heaters at end of useful life	Reduced water usage	10
Live Stock Waterer (energy free or ground source heat)	From ActOnEnergy TRM: $1,450	Elec	Hot Water	From ActOnEnergy TRM: Open waterers with sinking or floating heating element	Reduced water usage	10
Guest Room Energy Management (GREM) Controls on PTAC System	4.4.8	Elec	HVAC	Manual heating/cooling temperatuve setpoint and fan on/off/auto thermostat	HVAC Controls	15
Guest Room Energy Management (GREM) Controls on PTHP System	4.4.8	Elec	HVAC	Manual heating/cooling temperatuve setpoint and fan on/off/auto thermostat	HVAC Controls	15
High Efficiency Ice Maker (101-200 lbs)	4.2.10	Elec	Food Service	Commercial ice machine meeting federal equipment standards est. Jan. 1, 2010	Energy Star Equipment	10
High Efficiency Ice Maker (201-300 lbs)	4.2.10	Elec	Food Service	Commercial ice machine meeting federal equipment standards est. Jan. 1, 2010	Energy Star Equipment	10

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
High Efficiency Ice Maker (301-400 lbs)	4.2.10	Elec	Food Service	Commercial ice machine meeting federal equipment standards est. Jan. 1, 2010	Energy Star Equipment	10
High Efficiency Ice Maker (401-500 lbs)	4.2.10	Elec	Food Service	Commercial ice machine meeting federal equipment standards est. Jan. 1, 2010	Energy Star Equipment	10
High Efficiency Ice Maker (501-1000 lbs)	4.2.10	Elec	Food Service	Commercial ice machine meeting federal equipment standards est. Jan. 1, 2010	Energy Star Equipment	10
High Efficiency Ice Maker (1001-1500 lbs)	4.2.10	Elec	Food Service	Commercial ice machine meeting federal equipment standards est. Jan. 1, 2010	Energy Star Equipment	10
High Efficiency Ice Maker (1501 and up lbs)	4.2.10	Elec	Food Service	Commercial ice machine meeting federal equipment standards est. Jan. 1, 2010	Energy Star Equipment	10
Electric Steamer (3 pan)	4.2.3	Elec	Food Service	Non-ENERGY STAR steamer at end of life	Energy Star Equipment	12
Electric Steamer (4 pan)	4.2.3	Elec	Food Service	Non-ENERGY STAR steamer at end of life	Energy Star Equipment	12
Electric Steamer (5 pan)	4.2.3	Elec	Food Service	Non-ENERGY STAR steamer at end of life	Energy Star Equipment	12
Electric Steamer (6 pan)	4.2.3	Elec	Food Service	Non-ENERGY STAR steamer at end of life	Energy Star Equipment	12
Hot Holding Cabinet (half size)	4.2.9	Elec	Food Service	Non-ENERGY STAR certified cabinet at end of useful life	Energy Star Equipment	12
Hot Holding Cabinet (three-quarter size)	4.2.9	Elec	Food Service	Non-ENERGY STAR certified cabinet at end of useful life	Energy Star Equipment	12
Hot Holding Cabinet (full size)	4.2.9	Elec	Food Service	Non-ENERGY STAR certified cabinet at end of useful life	Energy Star Equipment	12
Electric Griddle	4.2.8	Elec	Food Service	Non-ENERGY STAR certified griddle at end of useful life	Energy Star Equipment	12
Dishwasher, High Temp (Includes Booster Heater)	4.2.6 $0 - multi tank $270 - single tank $500 door type $1000 - under counter	Elec&Gas	Food Service	Non-ENERGY STAR dishwasher at end of useful life	Energy Star Equipment	15
Refrigeration Tune-up	From ActOnEnergy TRM: $35	Elec	Refrigeration	From ActOnEnergy TRM: Refrigerator without tune-up or service agreement in the last 12 months	Equipment Tune-up	4

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
VFD	4.4.16 1-5 HP: $1,330 7.5 HP: $1,622 10 HP: $1,898 15 HP: $2,518 20 HP: $3,059	Elec	HVAC	Variable Speed Drive	VFD Motor	15
GE UltraMax Ballast 232-MAX/L/Ultra	List Price-$18.75	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
GE UltraMax Ballast 332-MAX/L/Ultra	List Price-$22.10	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
GE UltraMax Ballast 432-MAX/L/Ultra	List Price-$24	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
GE Ecolux Starcoat F32T8 (case of 36)	List Price-$120	Elec	Lighting	F34T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ EEMag ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp F40T12 w/ mag. Ballast - 1 lamp, 2 lamp, 3 lamp, 4 lamp	Energy Efficient Lighting	15
TCP 13W Eco$ave™SpringLight 1ES13	4.5.1	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	2
TCP 20W SpringLight 1ES20	4.5.1	Elec	Lighting	75W incandescent (from online store)	Energy Efficient Lighting	2
TCP 23w Eco$ave SpringLight 1ES23	4.5.1	Elec	Lighting	100W incandescent (from online store)	Energy Efficient Lighting	2
Earthmate 15w Spiral E1552AK	4.5.1	Elec	Lighting	60-75W incandescent (from online store)	Energy Efficient Lighting	2
Earthmate 20w Spiral E2052AK	4.5.1	Elec	Lighting	75-100W incandescent (from online store)	Energy Efficient Lighting	2

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
TCP 14w G25 Globe (2G2514)	4.5.1	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	2
Maxlite 25w MicroMax MLM25SWW	4.5.1	Elec	Lighting	100W incandescent (from online store)	Energy Efficient Lighting	2
Harmony 20w Lightwiz Spiral(H20027S)	4.5.1	Elec	Lighting	60-75W incandescent (from online store)	Energy Efficient Lighting	2
Harmony Light 25w/MaxLite 25w	4.5.1	Elec	Lighting	100W incandescent (from online store)	Energy Efficient Lighting	2
Feit 23w PAR-38 EcoBulb Flood (EST23PAR38T)	4.5.1	Elec	Lighting	100W incandescent (from online store)	Energy Efficient Lighting	2
GE 15w R30 Soft White Dimmable Flood (FLE 15/2/DV/R30)	4.5.1	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	2
GE 15w R30 Soft White Flood (FLE 15/2/R30XL)	4.5.1	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	2
TCP 14w R30 Reflector 803014	4.5.1	Elec	Lighting	65W incandescent (from online store)	Energy Efficient Lighting	2
Cree LR6 Downlight Module LR6-27K	4.5.2 $50 (uses SW TRM value for 17.6w LED downlight)	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	15
Cree CR6 Downlight Retrofit	4.5.2 $50 (uses SW TRM value for 17.6w LED downlight)	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	15
Phillips 12w Endura LED A19 912E26A60)	4.5.2 $28.50 (uses SW TRM value for omnidirectional LED ≥10w)	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	15
Phillips 12w Endura LED TM Par30	4.5.2 $40 (uses SW TRM value for directional LED <15w)	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	15
Philips 17w EnduraLED PAR38	4.5.2 $50 (uses SW TRM value for directional LED ≥15w)	Elec	Lighting	65W incandescent (from online store)	Energy Efficient Lighting	15
Phillips 10w Endura LED A19 L Prize	4.5.2 $28.50 (uses SW TRM value for omnidirectional LED ≥10w)	Elec	Lighting	60W incandescent (from online store)	Energy Efficient Lighting	15
Sylvania 8W UltraLED PAR20 (LED8PAR20/DIM/830/NFL25)	4.5.2 $40 (uses SW TRM value for directional LED <15w)	Elec	Lighting	35W halogen (from incandescent)	Energy Efficient Lighting	15
TCP 14w 25 Deg Par30 LED14E26P3030KNFL	4.5.2 $40 (uses SW TRM value for directional LED <15w)	Elec	Lighting	75W incandescent (from online store)	Energy Efficient Lighting	15

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
TCP 14w 40 Deg Beam Angle PAR30 LED	4.5.2 $40 (uses SW TRM value for directional LED <15w)	Elec	Lighting	75W incandescent (from online store)	Energy Efficient Lighting	15
TCP 17w 25 Deg Par38 LED17E26P3830KNFL	4.5.2 $50 (uses SW TRM value for directional LED ≥15w)	Elec	Lighting	90W incandescent (from online store)	Energy Efficient Lighting	15
TCP 17w 40 Deg Par38 LED17E26P3830KNFL	4.5.2 $50 (uses SW TRM value for directional LED ≥15w)	Elec	Lighting	90W incandescent (from online store)	Energy Efficient Lighting	15
TCP 9W LED PAR20 (LED9E26P2027KFL)	4.5.2 $40 (uses SW TRM value for directional LED <15w)	Elec	Lighting	40W incandescent (from online store)	Energy Efficient Lighting	15
TCP Exit Sign Retrofit Set 20714	4.5.5	Elec	Lighting	Incandescent or halogen LED exit sign	Energy Efficient Lighting	16
TCP Red LED Exit Sign with Battery (22743D)	4.5.5	Elec	Lighting	Incandescent or halogen LED exit sign	Energy Efficient Lighting	16
Hubbell White Wall Switch 120/277 1WS-ZP-3P-W	4.5.9 $42 (uses SW TRM value for wall-mounted sensors)	Elec	Lighting	Uncontrolled lighting system	Lighting Controls	8
Hubbell Ivory Motion-Sensing Wall Switch 120/277 Iws-ZP-3P-I	4.5.9 $42 (uses SW TRM value for wall-mounted sensors)	Elec	Lighting	Uncontrolled lighting system	Lighting Controls	8
Vending Miser VM150	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5
Vending Miser VM151	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5
Vending Miser EZ VM170	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5
Vending Mizer EZ VM171	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5
SnackMizer (Primary with Sensor) SM150	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5
SnackMizer SM151-Secondary W/cable	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
SnackMizer (Primary with Sensor) SM170 Machine Mount	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5
SnackMizer (Secondary W/Cable) SM171 Machine Mount	4.6.2	Elec	Refrigeration	Uncontrolled vending machine	Controlled vending machine	5
Gas Boiler Tune-Up	4.4.2&4.4.3 $0.83/mBtuh	Gas	HVAC	Facility that does not have standing maintenance contract or tune-up within the past 36 months	Equipment Tune-up	3
Gas Boiler Replacement (AFUE 85% min)	4.4.10 Use TRM to approximate incremental cost, but it should be custom	Gas	HVAC	Hot water boiler <300kBtuh - 82% AFUE Hot water boiler ≥300 kBtuh - 80% TE Steam boiler boiler <300 kBtuh - 80% AFUE Steam boiler ≥300 kBtuh - 79% TE	Replaced equipment	20
Gas Boiler Replacement (Thermal Eff 90%)	4.4.10 Use TRM to approximate incremental cost, but it should be custom	Gas	HVAC	Hot water boiler <300kBtuh - 82% AFUE Hot water boiler ≥300 kBtuh - 80% TE Steam boiler boiler <300 kBtuh - 80% AFUE Steam boiler ≥300 kBtuh - 79% TE	Replaced equipment	20
Gas Furnace Replacement (92% AFUE)	4.4.11 For this measure $477 is incremental cost (higher efficiencies will use BPH7)	Gas	HVAC	Minimum 80% AFUE furnace	Replaced equipment	17
Gas Furnace Replacement (94% AFUE)	4.4.11 For this measure $657 is the incremental cost	Gas	HVAC	Minimum 80% AFUE furnace	Replaced equipment	17
High Efficiency Tankless Water Heater (gas)	4.3.4 Replacement - $3,255 New inst. - $2,526	Gas	Hot Water	Gas-fired tank type water heater meeting energy efficiency requirements mandated by IECC 2009, Table 504.2	High efficiency hot water	20
High Efficiency Condensing Tanked Water Heater (gas)	From ActOnEnergy TRM: 50 gallon - $1,050 80 gallon - $1,050 100 gallon - $1,950	Gas	Hot Water	From ActOnEnergy TRM: Commercial grade tanked water heater, 50 or more gallon storage capacity	High efficiency hot water	5
High Efficiency Tanked Water Heater (gas)	4.3.1	Gas	Hot Water	Gas storage water heater with heating capacity over 75 kBtuh and TE of 80%	High efficiency hot water	15
Gas Steamer (5 pan)	4.2.3	Gas	Food Service	Non-ENERGY STAR steamer at end of life	Energy Star Equipment	12

Measure	Illinois TRM Reference and Input Assumptions	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Gas Steamer (6 pan)	4.2.3	Gas	Food Service	Non-ENERGY STAR steamer at end of life	Energy Star Equipment	12
Gas Griddle	4.2.8	Gas	Food Service	Non-ENERGY STAR certified griddle at end of useful life	Energy Star Equipment	12
Gas Fryer	4.2.7	Gas	Food Service	Non-ENERGY STAR fryer at end of useful life	Energy Star Equipment	15
Steam Trap Survey (HVAC)	No SW TRM cost for just the survey	N/A	HVAC	Faulty steam trap in need of replacement		6
Steam Trap Repair / Replacement (HVAC)	4.4.15 $77/trap	Gas	HVAC	Faulty steam trap in need of replacement		6
Steam Trap Survey (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	No SW TRM cost for just the survey	N/A	HVAC	Faulty steam trap in need of replacement		6
Steam Trap Repair / Replacement (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	4.4.15 $77-$418/trap	Gas	HVAC	Faulty steam trap in need of replacement		6

DS3 - Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Highbay Fixture Replacement Option	1,450.95	0.25	-15.76	$191	$65	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
T8 U-tube Lamps and Ballasts Replacing T12 U-bend Lamps and Ballasts	171.60	0.03	-1.71	$58	$11	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
New, high performance T8 (32W) lamps and ballasts replacing existing T12 lamps and ballasts	313.95	0.06	-4.59	$58	$11	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Reduced wattage T8 (28W) lamps and ballasts replacing existing T12 lamps and ballasts	298.86	0.51	-4.34	$63	$14	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Ultra-low wattage T8 (25W) lamps and ballasts replacing existing T12 lamps and ballasts	416.00	0.69	-4.85	$65	$18	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
T5 or reduced wattage T8 relamp and reballast upgrading an existing 32W T8	100.24	0.02	-1.82	$61	$9	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
2-foot T8 lamps (17W) and ballasts replacing 2-foot T12 lamps/ballasts OR replacing 4-foot T12 U-tube lamps/ballasts	322.91	0.06	-3.70	$22	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
New high performance T8 fixture (with or without a reflector) replacing an existing T12 fixture	406.83	0.07	-5.79	$58	$11	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
New T5 fluorescent replacing an existing T12	819.34	0.15	-12.50	$70	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
High efficiency T5 or T8 fluorescent fixtures replacing existing T12 recessed or surface mounted troffer (prismatic, parabolic, or semi-indirect fixture)	544.22	0.09	-6.55	$50	$9	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Fixture mounted occupancy sensor for fluorescent or LED systems	311.90	0.13	-3.57	$125	$30	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Remote mounted occupancy sensors using ultrasonic or passive infrared technology	1,100.00	0.00	-0.17	$54	$30	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Wall switch plate mounted occupancy sensors using ultrasonic or passive infrared technology	711.00	0.00	-0.06	$42	$30	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Low wattage occupancy sensors or daylight dimming controls	176.00	0.00	-0.04	$54	$5	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED lamp	242.31	0.07	-3.29	$36	$15	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED recessed down fixture (18W or less per fixture), replacing 60-100W incandescent lamp	293.01	0.06	-3.69	$36	$15	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Hard wired CFL fixtures replacing existing incandescent fixtures	339.35	0.09	-3.79	$45	$18	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Exterior Lighting	501.00	0.00	0.00	$110	$41	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Permanent Fixture/Lamp Removal	624.25	0.11	-7.36	$12	$3	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Glass Door LED Cooler/Freezer Lighting	889.32	0.11	0.00	$208	$32	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Glass Door LED cooler/Freezer Lighting Controls/Sensors	100.21	0.04	0.00	$54	$12	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Fixture mounted occupancy sensor or daylighting controls for HID systems	335.56	0.03	-5.41	$125	$40	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED, T-1 or electroluminescent exit sign	326.29	0.03	-4.24	$30	$20	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED Exit Sign Retro-fit Kit 6W or less	380.56	0.10	-34.71	$30	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Interior LED Lamps and Fixtures	136.00	0.08	-13.63	$40	$11	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Air Conditioner Tune-Up	878.00	0.39	0.00	$175	$125	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (up to 65,000 Btuh input, minimum 15 SEER)	514.38	0.50	0.00	$300	$50	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (65,000 to 134,999 Btuh input, minimum 12 EER)	744.50	0.75	0.00	$600	$50	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (240,000 to 759,999 Btuh input, minimum 10.8 EER/12.0 IPLV)	9,363.21	9.27	0.00	$4,300	$300	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (760,000 or more Btuh input, minimum 10.2 EER/11.0 IPLV)	15,220.95	15.56	0.00	$6,500	$500	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Air-Cooled Chillers (up to 150 tons)	11,888.10	9.00	0.00	$9,525	$500	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps 135,000 to 239,999 Btuh input, greater than 12.0 EER)	2,850.23	2.84	0.00	$900	$150	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Air-Cooled Chillers (150 tons and larger)	17,844.89	18.33	0.00	$25,400	$500	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
PTAC/PTHP less than 65kBtuh input, new installation	179.18	0.20	0.00	$84	$16	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Variable Frequency Drives on HVAC Motors	11,645.00	1.12	0.00	$1,700	$1,100	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
High Efficiency Tanked Water Heater (electric)	5,005.72	0.57	0.00	$1,350	$150	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
High Efficiency Tankless Water Heaters (electric)	7,925.10	0.90	0.00	$1,350	$300	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
PTAC/PTHP less than 65,000 Btuh input, replacing an existing unit	358.62	0.27	0.00	$84	$22	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Beverage Machine Control	1,411.33	0.00	0.00	$180	$100	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Snack Machine Control	342.75	0.00	0.00	$80	$30	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Automatic Door Closer for Walk-in Freezer/Cooler (back access door) or Walk-in Cooler Door, or Walk-in Freezer Door	1,625.00	0.22	0.00	$157	$30	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Auto Closer for Display Case Door: Reach-in Cooler Door or Reach-in Freezer Door	1,625.00	0.22	0.00	$157	$30	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Strip Curtain on Walk-in Coolers or Freezers	1,698.00	0.20	0.00	$286	$65	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Night Curtain for Open Cooler	94.50	0.00	0.00	$38	$21	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Glass Door Freezer (31-50 cu ft)	3,871.65	0.41	0.00	$166	$300	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Glass Door Freezer (51 cu ft or more)	7,341.53	0.79	0.00	$407	$500	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Anti Sweat Heater Control, Freezer	2,709.21	0.00	0.00	$250	$250	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Anti Sweat Heater Control, Cooler	1,278.19	0.00	0.00	$250	$250	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Evaporator Fan Controls	478.00	0.06	0.00	$291	$60	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (up to 15 cu ft)	269.90	0.03	0.00	$142	$35	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (15-30 cu ft)	595.40	0.06	0.00	$166	$50	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (31-50 cu ft)	958.40	0.10	0.00	$166	$100	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (51 cu ft or more)	2,765.50	0.30	0.00	$407	$200	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Walk-in Cooler	357.50	0.04	0.00	$50	$25	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Walk-in Freezer	577.00	0.09	0.00	$50	$35	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Reach-In Cooler	343.00	0.03	0.00	$50	$25	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Reach-In Freezer	516.50	0.04	0.00	$50	$35	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
High Efficiency High Speed Exhaust/Ventilation Fans (24-35 in diameter)	372.14	0.12	0.00	$150	$25	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency High Speed Exhaust/Ventilation Fans (36-47 in diameter)	625.23	0.20	0.00	$150	$50	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency High Speed Exhaust/Ventilation Fans (48-71 in diameter)	1,122.36	0.36	0.00	$150	$100	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Circulation Fans (24-35 in diameter)	372.14	0.12	0.00	$150	$25	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Circulation Fans (36-47 in diameter)	625.23	0.20	0.00	$150	$50	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Circulation Fans (48-71 in diameter)	1,122.36	0.36	0.00	$150	$100	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Volume Low Speed (HVLS) Fans	8,379.47	3.07	0.00	$4,185	$1,000	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Equipment Heater Timers	664.00	0.00	0.00	$10	$10	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Live Stock Waterer (electrically heated)	1,592.85	0.53	0.00	$788	$75	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Live Stock Waterer (energy free or ground source heat)	3,337.40	0.83	0.00	$1,450	$100	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Guest Room Energy Management (GREM) Controls on PTAC System	1,686.50	0.84	0.00	$260	$80	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Guest Room Energy Management (GREM) Controls on PTHP System	1,076.50	0.84	0.00	$260	$50	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Ice Maker (101-200 lbs)	243.66	0.05	0.00	$296	$100	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (201-300 lbs)	383.38	0.07	0.00	$312	$150	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (301-400 lbs)	509.43	0.10	0.00	$559	$150	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (401-500 lbs)	616.18	0.12	0.00	$981	$175	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (501-1000 lbs)	915.87	0.17	0.00	$1,485	$225	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (1001-1500 lbs)	1,567.44	0.29	0.00	$1,821	$350	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (1501 and up lbs)	1,693.43	0.32	0.00	$2,194	$350	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Electric Steamer (3 pan)	13,649.19	2.49	0.00	$2,490	$300	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Electric Steamer (4 pan)	18,592.13	3.39	0.00	$2,490	$350	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Electric Steamer (5 pan)	23,749.42	4.33	0.00	$2,490	$400	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Electric Steamer (6 pan)	28,693.00	5.24	0.00	$2,490	$450	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Hot Holding Cabinet (half size)	2,628.00	1.20	0.00	$1,500	$200	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Hot Holding Cabinet (three-quarter size)	3,942.00	1.80	0.00	$1,800	$300	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Hot Holding Cabinet (full size)	9,308.00	4.25	0.00	$1,200	$500	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Electric Griddle	2,597.00	0.53	0.00	$0	$120	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Dishwasher, High Temp (Includes Booster Heater)	10,130.75	1.54	324.91	$443	$900	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Refrigeration Tune-up	5,220.00	0.00	0.00	$350	$200	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
VFD	11,337.00	1.12	0.00	$1,700	$1,110	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
GE UltraMax Ballast 232-MAX/L/Ultra	83.43	0.02	-1.35	$19	$6	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE UltraMax Ballast 332-MAX/L/Ultra	155.20	0.04	-2.50	$22	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE UltraMax Ballast 432-MAX/L/Ultra	390.67	0.10	-6.30	$24	$12	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE Ecolux Starcoat F32T8 (case of 36)	2,205.00	0.55	-35.56	$120	$12	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 13W Eco$ave™SpringLight 1ES13	195.28	0.05	-3.15	$2	$1	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 20W SpringLight 1ES20	256.42	0.06	-4.14	$2	$1	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 23w Eco$ave SpringLight 1ES23	228.45	0.06	-3.68	$2	$1	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Earthmate 15w Spiral E1552AK	177.14	0.04	-2.86	$2	$1	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Earthmate 20w Spiral E2052AK	411.54	0.10	-6.64	$3	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w G25 Globe (2G2514)	198.53	0.05	-3.20	$4	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Maxlite 25w MicroMax MLM25SWW	177.68	0.04	-2.87	$2	$1	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Harmony 20w Lightwiz Spiral(H20027S)	119.57	0.03	-1.93	$3	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Harmony Light 25w/MaxLite 25w	257.91	0.06	-4.16	$2	$1	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Feit 23w PAR-38 EcoBulb Flood (EST23PAR38T)	655.53	0.16	-10.57	$7	$3	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE 15w R30 Soft White Dimmable Flood (FLE 15/2/DV/R30)	109.60	0.03	-1.77	$13	$3	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE 15w R30 Soft White Flood (FLE 15/2/R30XL)	288.50	0.07	-4.65	$7	$4	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w R30 Reflector 803014	125.93	0.03	-2.03	$4	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Cree LR6 Downlight Module LR6-27K	306.20	0.08	-4.94	$50	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Cree CR6 Downlight Retrofit	309.00	0.08	-4.98	$50	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Phillips 12w Endura LED A19 912E26A60)	178.67	0.04	-2.88	$29	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Phillips 12w Endura LED TM Par30	178.67	0.04	-2.88	$40	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Philips 17w EnduraLED PAR38	222.76	0.06	-3.59	$50	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Phillips 10w Endura LED A19 L Prize	115.83	0.03	-1.87	$29	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Sylvania 8W UltraLED PAR20 (LED8PAR20/DIM/830/NFL25)	125.00	0.01	-0.85	$40	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w 25 Deg Par30 LED14E26P3030KNFL	125.93	0.03	-2.03	$40	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w 40 Deg Beam Angle PAR30 LED	125.93	0.03	-2.03	$40	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 17w 25 Deg Par38 LED17E26P3830KNFL	227.10	0.06	-3.66	$50	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 17w 40 Deg Par38 LED17E26P3830KNFL	271.70	0.07	-4.38	$50	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 9W LED PAR20 (LED9E26P2027KFL)	115.83	0.03	-1.87	$40	$10	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP Exit Sign Retrofit Set 20714	194.99	0.05	-3.15	$30	$5	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP Red LED Exit Sign with Battery (22743D)	476.88	0.12	-7.69	$30	$12	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Hubbell White Wall Switch 120/277 1WS-ZP-3P-W	443.00	0.05	-3.00	$42	$20	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Hubbell Ivory Motion-Sensing Wall Switch 120/277 Iws-ZP-3P-I	443.00	1.17	-75.76	$42	$20	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Vending Miser VM150	1,613.00	0.40	0.00	$180	$100	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Vending Miser VM151	1,613.00	0.40	0.00	$180	$100	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Vending Miser EZ VM170	1,613.00	0.40	0.00	$180	$100	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Vending Mizer EZ VM171	1,613.00	0.40	0.00	$180	$100	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer (Primary with Sensor) SM150	387.00	0.10	0.00	$80	$30	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer SM151-Secondary W/cable	387.00	0.10	0.00	$80	$30	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer (Primary with Sensor) SM170 Machine Mount	387.00	0.10	0.00	$80	$30	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer (Secondary W/Cable) SM171 Machine Mount	387.00	0.10	0.00	$80	$30	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Gas Boiler Tune-Up	0.00	0.00	226.76	$2,490	$817	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Boiler Replacement (AFUE 85% min)	0.00	0.00	573.42	$4,900	$510	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Boiler Replacement (Thermal Eff 90%)	0.00	0.00	686.65	$9,600	$1,770	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Furnace Replacement (92% AFUE)	0.00	0.00	184.07	$477	$450	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Furnace Replacement (94% AFUE)	0.00	0.00	166.20	$657	$600	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
High Efficiency Tankless Water Heater (gas)	0.00	0.00	172.09	$2,891	$300	0.80	0.80	0.80	0.80	0.80	0.80	0.93	0.93	0.93
High Efficiency Condensing Tanked Water Heater (gas)	0.00	0.00	1,246.25	$1,350	$300	0.80	0.80	0.80	0.80	0.80	0.80	0.93	0.93	0.93
High Efficiency Tanked Water Heater (gas)	0.00	0.00	251.00	$209	$150	0.80	0.80	0.80	0.80	0.80	0.80	0.93	0.93	0.93
Gas Steamer (5 pan)	0.00	0.00	1,678.29	$998	$1,000	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Gas Steamer (6 pan)	0.00	0.00	1,808.98	$998	$1,200	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Gas Griddle	0.00	0.00	149.00	$60	$50	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Gas Fryer	0.00	0.00	505.00	$1,200	$400	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Steam Trap Survey (HVAC)	0.00	0.00	0.00	$0	$30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Steam Trap Repair / Replacement (HVAC)	0.00	0.00	75.00	$77	$100	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Steam Trap Survey (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	0.00	0.00	0.00	$0	$30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Steam Trap Repair / Replacement (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	0.00	0.00	470.00	$276	$270	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

DS3 - Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Highbay Fixture Replacement Option	5,453	5,614	6,045	903.94	903.94	903.94	-9.82	-9.82	-9.82
T8 U-tube Lamps and Ballasts Replacing T12 U-bend Lamps and Ballasts	892	950	1,080	106.91	106.91	106.91	-1.07	-1.07	-1.07
New, high performance T8 (32W) lamps and ballasts replacing existing T12 lamps and ballasts	3,811	4,102	4,318	195.59	195.59	195.59	-2.86	-2.86	-2.86
Reduced wattage T8 (28W) lamps and ballasts replacing existing T12 lamps and ballasts	15,242	15,977	17,273	186.19	186.19	186.19	-2.70	-2.70	-2.70
Ultra-low wattage T8 (25W) lamps and ballasts replacing existing T12 lamps and ballasts	1,594	1,943	2,159	259.17	259.17	259.17	-3.02	-3.02	-3.02
T5 or reduced wattage T8 relamp and reballast upgrading an existing 32W T8	273	273	302	62.45	62.45	62.45	-1.13	-1.13	-1.13
2-foot T8 lamps (17W) and ballasts replacing 2-foot T12 lamps/ballasts OR replacing 4-foot T12 U-tube lamps/ballasts	195	259	302	201.17	201.17	201.17	-2.30	-2.30	-2.30
New high performance T8 fixture (with or without a reflector) replacing an existing T12 fixture	8,893	9,500	10,364	253.45	253.45	253.45	-3.61	-3.61	-3.61
New T5 fluorescent replacing an existing T12	2,953	3,023	3,455	510.45	510.45	510.45	-7.79	-7.79	-7.79
High efficiency T5 or T8 fluorescent fixtures replacing existing T12 recessed or surface mounted troffer (prismatic, parabolic, or semi-indirect fixture)	3,790	3,886	4,318	339.05	339.05	339.05	-4.08	-4.08	-4.08
Fixture mounted occupancy sensor for fluorescent or LED systems	1,710	2,159	2,807	194.31	194.31	194.31	-2.22	-2.22	-2.22
Remote mounted occupancy sensors using ultrasonic or passive infrared technology	121	138	216	685.30	685.30	685.30	-0.10	-0.10	-0.10
Wall switch plate mounted occupancy sensors using ultrasonic or passive infrared technology	277	302	389	442.95	442.95	442.95	-0.04	-0.04	-0.04
Low wattage occupancy sensors or daylight dimming controls	267	289	302	109.65	109.65	109.65	-0.03	-0.03	-0.03
LED lamp	9,719	17,284	20,093	150.96	150.96	150.96	-2.05	-2.05	-2.05
LED recessed down fixture (18W or less per fixture), replacing 60-100W incandescent lamp	146	345	432	182.55	182.55	182.55	-2.30	-2.30	-2.30
Hard wired CFL fixtures replacing existing incandescent fixtures	38	86	108	211.42	211.42	211.42	-2.36	-2.36	-2.36
Exterior Lighting	993	1,220	1,525	312.12	312.12	312.12	0.00	0.00	0.00
Permanent Fixture/Lamp Removal	546	864	1,080	388.91	388.91	388.91	-4.58	-4.58	-4.58
Glass Door LED Cooler/Freezer Lighting	95	130	173	554.04	554.04	554.04	0.00	0.00	0.00
Glass Door LED cooler/Freezer Lighting Controls/Sensors	2	3	3	62.43	62.43	62.43	0.00	0.00	0.00
Fixture mounted occupancy sensor or daylighting controls for HID systems	11	11	13	209.05	209.05	209.05	-3.37	-3.37	-3.37

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
LED, T-1 or electroluminescent exit sign	3,809	3,886	5,182	203.28	203.28	203.28	-2.64	-2.64	-2.64
LED Exit Sign Retro-fit Kit 6W or less	0	0	0	237.09	237.09	237.09	-21.63	-21.63	-21.63
Interior LED Lamps and Fixtures	1,514	3,023	5,614	84.73	84.73	84.73	-8.49	-8.49	-8.49
Air Conditioner Tune-Up	376	376	376	380.17	380.17	380.17	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (up to 65,000 Btuh input, minimum 15 SEER)	107	107	107	222.73	222.73	222.73	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (65,000 to 134,999 Btuh input, minimum 12 EER)	73	73	73	322.37	322.37	322.37	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (240,000 to 759,999 Btuh input, minimum 10.8 EER/12.0 IPLV)	11	11	11	4,054.27	4,054.27	4,054.27	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (760,000 or more Btuh input, minimum 10.2 EER/11.0 IPLV)	0	0	0	6,590.67	6,590.67	6,590.67	0.00	0.00	0.00
Air-Cooled Chillers (up to 150 tons)	2	2	2	5,147.55	5,147.55	5,147.55	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps 135,000 to 239,999 Btuh input, greater than 12.0 EER)	1	1	1	1,234.15	1,234.15	1,234.15	0.00	0.00	0.00
Air-Cooled Chillers (150 tons and larger)	0	0	0	7,726.84	7,726.84	7,726.84	0.00	0.00	0.00
PTAC/PTHP less than 65kBtuh input, new installation	0	0	0	77.58	77.58	77.58	0.00	0.00	0.00
Variable Frequency Drives on HVAC Motors	6	6	6	5,042.29	5,042.29	5,042.29	0.00	0.00	0.00
High Efficiency Tanked Water Heater (electric)	0	0	0	2,167.48	2,167.48	2,167.48	0.00	0.00	0.00
High Efficiency Tankless Water Heaters (electric)	0	0	0	3,431.57	3,431.57	3,431.57	0.00	0.00	0.00
PTAC/PTHP less than 65,000 Btuh input, replacing an existing unit	0	0	0	155.28	155.28	155.28	0.00	0.00	0.00
Beverage Machine Control	0	0	0	1,175.64	1,175.64	1,175.64	0.00	0.00	0.00
Snack Machine Control	0	0	0	285.51	285.51	285.51	0.00	0.00	0.00
Automatic Door Closer for Walk-in Freezer/Cooler (back access door) or Walk-in Cooler Door, or Walk-in Freezer Door	75	74	73	1,353.63	1,353.63	1,353.63	0.00	0.00	0.00
Auto Closer for Display Case Door: Reach-in Cooler Door or Reach-in Freezer Door	0	0	0	1,353.63	1,353.63	1,353.63	0.00	0.00	0.00
Strip Curtain on Walk-in Coolers or Freezers	14	14	14	1,414.43	1,414.43	1,414.43	0.00	0.00	0.00
Night Curtain for Open Cooler	72	72	71	78.72	78.72	78.72	0.00	0.00	0.00
Glass Door Freezer (31-50 cu ft)	1	1	1	3,225.08	3,225.08	3,225.08	0.00	0.00	0.00
Glass Door Freezer (51 cu ft or more)	0	0	0	6,115.49	6,115.49	6,115.49	0.00	0.00	0.00
Anti Sweat Heater Control, Freezer	144	142	141	2,256.77	2,256.77	2,256.77	0.00	0.00	0.00
Anti Sweat Heater Control, Cooler	357	354	352	1,064.73	1,064.73	1,064.73	0.00	0.00	0.00
Evaporator Fan Controls	0	0	0	398.17	398.17	398.17	0.00	0.00	0.00
Solid Door Freezer (up to 15 cu ft)	0	0	0	224.83	224.83	224.83	0.00	0.00	0.00
Solid Door Freezer (15-30 cu ft)	0	0	0	495.97	495.97	495.97	0.00	0.00	0.00

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Solid Door Freezer (31-50 cu ft)	1	1	1	798.35	798.35	798.35	0.00	0.00	0.00
Solid Door Freezer (51 cu ft or more)	0	0	0	2,303.66	2,303.66	2,303.66	0.00	0.00	0.00
EC Motor for Walk-in Cooler	45	45	44	297.80	297.80	297.80	0.00	0.00	0.00
EC Motor for Walk-in Freezer	36	36	36	480.64	480.64	480.64	0.00	0.00	0.00
EC Motor for Reach-In Cooler	138	137	136	285.72	285.72	285.72	0.00	0.00	0.00
EC Motor for Reach-In Freezer	40	40	40	430.24	430.24	430.24	0.00	0.00	0.00
High Efficiency High Speed Exhaust/Ventilation Fans (24-35 in diameter)	0	0	0	283.94	283.94	283.94	0.00	0.00	0.00
High Efficiency High Speed Exhaust/Ventilation Fans (36-47 in diameter)	0	0	0	477.05	477.05	477.05	0.00	0.00	0.00
High Efficiency High Speed Exhaust/Ventilation Fans (48-71 in diameter)	0	0	0	856.36	856.36	856.36	0.00	0.00	0.00
High Efficiency Circulation Fans (24-35 in diameter)	0	0	0	283.94	283.94	283.94	0.00	0.00	0.00
High Efficiency Circulation Fans (36-47 in diameter)	0	0	0	477.05	477.05	477.05	0.00	0.00	0.00
High Efficiency Circulation Fans (48-71 in diameter)	1	1	1	856.36	856.36	856.36	0.00	0.00	0.00
High Volume Low Speed (HVLS) Fans	0	0	0	6,393.54	6,393.54	6,393.54	0.00	0.00	0.00
Equipment Heater Timers	0	0	0	506.63	506.63	506.63	0.00	0.00	0.00
Live Stock Waterer (electrically heated)	0	0	0	1,215.34	1,215.34	1,215.34	0.00	0.00	0.00
Live Stock Waterer (energy free or ground source heat)	1	1	1	2,546.44	2,546.44	2,546.44	0.00	0.00	0.00
Guest Room Energy Management (GREM) Controls on PTAC System	116	115	114	1,286.80	1,286.80	1,286.80	0.00	0.00	0.00
Guest Room Energy Management (GREM) Controls on PTHP System	0	0	0	821.37	821.37	821.37	0.00	0.00	0.00
High Efficiency Ice Maker (101-200 lbs)	0	0	0	202.97	202.97	202.97	0.00	0.00	0.00
High Efficiency Ice Maker (201-300 lbs)	0	0	0	319.36	319.36	319.36	0.00	0.00	0.00
High Efficiency Ice Maker (301-400 lbs)	0	0	0	424.36	424.36	424.36	0.00	0.00	0.00
High Efficiency Ice Maker (401-500 lbs)	0	0	0	513.28	513.28	513.28	0.00	0.00	0.00
High Efficiency Ice Maker (501-1000 lbs)	0	0	0	762.92	762.92	762.92	0.00	0.00	0.00
High Efficiency Ice Maker (1001-1500 lbs)	0	0	0	1,305.68	1,305.68	1,305.68	0.00	0.00	0.00
High Efficiency Ice Maker (1501 and up lbs)	0	0	0	1,410.63	1,410.63	1,410.63	0.00	0.00	0.00
Electric Steamer (3 pan)	0	0	0	7,411.51	7,411.51	7,411.51	0.00	0.00	0.00
Electric Steamer (4 pan)	0	0	0	10,095.53	10,095.53	10,095.53	0.00	0.00	0.00
Electric Steamer (5 pan)	0	0	0	12,895.94	12,895.94	12,895.94	0.00	0.00	0.00
Electric Steamer (6 pan)	0	0	0	15,580.30	15,580.30	15,580.30	0.00	0.00	0.00
Hot Holding Cabinet (half size)	0	0	0	1,427.00	1,427.00	1,427.00	0.00	0.00	0.00
Hot Holding Cabinet (three-quarter size)	0	0	0	2,140.51	2,140.51	2,140.51	0.00	0.00	0.00

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Hot Holding Cabinet (full size)	0	0	0	5,054.24	5,054.24	5,054.24	0.00	0.00	0.00
Electric Griddle	0	0	0	1,410.17	1,410.17	1,410.17	0.00	0.00	0.00
Dishwasher, High Temp (Includes Booster Heater)	0	0	0	7,395.45	7,395.45	7,395.45	237.18	237.18	237.18
Refrigeration Tune-up	219	217	216	4,332.60	4,332.60	4,332.60	0.00	0.00	0.00
VFD	1,354	1,349	1,344	9,103.61	9,103.61	9,103.61	0.00	0.00	0.00
GE UltraMax Ballast 232-MAX/L/Ultra	0	0	0	51.98	51.98	51.98	-0.84	-0.84	-0.84
GE UltraMax Ballast 332-MAX/L/Ultra	0	0	0	96.69	96.69	96.69	-1.56	-1.56	-1.56
GE UltraMax Ballast 432-MAX/L/Ultra	0	0	0	243.39	243.39	243.39	-3.93	-3.93	-3.93
GE Ecolux Starcoat F32T8 (case of 36)	0	0	0	1,373.72	1,373.72	1,373.72	-22.16	-22.16	-22.16
TCP 13W Eco$ave™SpringLight 1ES13	0	0	0	121.66	121.66	121.66	-1.96	-1.96	-1.96
TCP 20W SpringLight 1ES20	0	0	0	159.75	159.75	159.75	-2.58	-2.58	-2.58
TCP 23w Eco$ave SpringLight 1ES23	0	0	0	142.32	142.32	142.32	-2.30	-2.30	-2.30
Earthmate 15w Spiral E1552AK	0	0	0	110.36	110.36	110.36	-1.78	-1.78	-1.78
Earthmate 20w Spiral E2052AK	0	0	0	256.39	256.39	256.39	-4.14	-4.14	-4.14
TCP 14w G25 Globe (2G2514)	0	0	0	123.68	123.68	123.68	-1.99	-1.99	-1.99
Maxlite 25w MicroMax MLM25SWW	0	0	0	110.69	110.69	110.69	-1.79	-1.79	-1.79
Harmony 20w Lightwiz Spiral(H20027S)	0	0	0	74.49	74.49	74.49	-1.20	-1.20	-1.20
Harmony Light 25w/MaxLite 25w	0	0	0	160.68	160.68	160.68	-2.59	-2.59	-2.59
Feit 23w PAR-38 EcoBulb Flood (EST23PAR38T)	0	0	0	408.40	408.40	408.40	-6.59	-6.59	-6.59
GE 15w R30 Soft White Dimmable Flood (FLE 15/2/DV/R30)	0	0	0	68.28	68.28	68.28	-1.10	-1.10	-1.10
GE 15w R30 Soft White Flood (FLE 15/2/R30XL)	0	0	0	179.74	179.74	179.74	-2.90	-2.90	-2.90
TCP 14w R30 Reflector 803014	0	0	0	78.45	78.45	78.45	-1.27	-1.27	-1.27
Cree LR6 Downlight Module LR6-27K	0	0	0	190.76	190.76	190.76	-3.08	-3.08	-3.08
Cree CR6 Downlight Retrofit	0	0	0	192.51	192.51	192.51	-3.10	-3.10	-3.10
Phillips 12w Endura LED A19 912E26A60)	0	0	0	111.31	111.31	111.31	-1.80	-1.80	-1.80
Phillips 12w Endura LED TM Par30	0	0	0	111.31	111.31	111.31	-1.80	-1.80	-1.80
Philips 17w EnduraLED PAR38	0	0	0	138.78	138.78	138.78	-2.24	-2.24	-2.24
Phillips 10w Endura LED A19 L Prize	0	0	0	72.16	72.16	72.16	-1.16	-1.16	-1.16
Sylvania 8W UltraLED PAR20 (LED8PAR20/DIM/830/NFL25)	0	0	0	77.88	77.88	77.88	-0.53	-0.53	-0.53
TCP 14w 25 Deg Par30 LED14E26P3030KNFL	0	0	0	78.45	78.45	78.45	-1.27	-1.27	-1.27
TCP 14w 40 Deg Beam Angle PAR30 LED	0	0	0	78.45	78.45	78.45	-1.27	-1.27	-1.27
TCP 17w 25 Deg Par38 LED17E26P3830KNFL	0	0	0	141.48	141.48	141.48	-2.28	-2.28	-2.28
TCP 17w 40 Deg Par38 LED17E26P3830KNFL	0	0	0	169.27	169.27	169.27	-2.73	-2.73	-2.73
TCP 9W LED PAR20 (LED9E26P2027KFL)	0	0	0	72.16	72.16	72.16	-1.16	-1.16	-1.16
TCP Exit Sign Retrofit Set 20714	0	0	0	121.48	121.48	121.48	-1.96	-1.96	-1.96

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
TCP Red LED Exit Sign with Battery (22743D)	0	0	0	297.10	297.10	297.10	-4.79	-4.79	-4.79
Hubbell White Wall Switch 120/277 1WS-ZP-3P-W	0	0	0	275.99	275.99	275.99	-1.87	-1.87	-1.87
Hubbell Ivory Motion-Sensing Wall Switch 120/277 Iws-ZP-3P-I	0	0	0	275.99	275.99	275.99	-47.20	-47.20	-47.20
Vending Miser VM150	0	0	0	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
Vending Miser VM151	0	0	0	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
Vending Miser EZ VM170	0	0	0	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
Vending Mizer EZ VM171	0	0	0	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
SnackMizer (Primary with Sensor) SM150	0	0	0	322.37	322.37	322.37	0.00	0.00	0.00
SnackMizer SM151-Secondary W/cable	0	0	0	322.37	322.37	322.37	0.00	0.00	0.00
SnackMizer (Primary with Sensor) SM170 Machine Mount	0	0	0	322.37	322.37	322.37	0.00	0.00	0.00
SnackMizer (Secondary W/Cable) SM171 Machine Mount	0	0	0	322.37	322.37	322.37	0.00	0.00	0.00
Gas Boiler Tune-Up	6	6	6	0.00	0.00	0.00	181.41	181.41	181.41
Gas Boiler Replacement (AFUE 85% min)	1	1	1	0.00	0.00	0.00	458.74	458.74	458.74
Gas Boiler Replacement (Thermal Eff 90%)	16	16	16	0.00	0.00	0.00	549.32	549.32	549.32
Gas Furnace Replacement (92% AFUE)	1	1	1	0.00	0.00	0.00	147.25	147.25	147.25
Gas Furnace Replacement (94% AFUE)	22	22	22	0.00	0.00	0.00	132.96	132.96	132.96
High Efficiency Tankless Water Heater (gas)	10	10	10	0.00	0.00	0.00	160.04	160.04	160.04
High Efficiency Condensing Tanked Water Heater (gas)	0	0	0	0.00	0.00	0.00	1,159.01	1,159.01	1,159.01
High Efficiency Tanked Water Heater (gas)	2	2	2	0.00	0.00	0.00	233.43	233.43	233.43
Gas Steamer (5 pan)	0	0	0	0.00	0.00	0.00	1,225.15	1,225.15	1,225.15
Gas Steamer (6 pan)	0	0	0	0.00	0.00	0.00	1,320.56	1,320.56	1,320.56
Gas Griddle	0	0	0	0.00	0.00	0.00	108.77	108.77	108.77
Gas Fryer	0	0	0	0.00	0.00	0.00	368.65	368.65	368.65
Steam Trap Survey (HVAC)	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Steam Trap Repair / Replacement (HVAC)	218	218	218	0.00	0.00	0.00	75.00	75.00	75.00
Steam Trap Survey (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Steam Trap Repair / Replacement (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	806	806	806	0.00	0.00	0.00	470.00	470.00	470.00

DS2 - Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Highbay Fixture Replacement Option	1,450.95	0.25	-15.76	$191	$84	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
T8 U-tube Lamps and Ballasts Replacing T12 U-bend Lamps and Ballasts	171.60	0.03	-1.71	$58	$14	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
New, high performance T8 (32W) lamps and ballasts replacing existing T12 lamps and ballasts	313.95	0.06	-4.59	$58	$14	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Reduced wattage T8 (28W) lamps and ballasts replacing existing T12 lamps and ballasts	298.86	0.51	-4.34	$63	$19	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Ultra-low wattage T8 (25W) lamps and ballasts replacing existing T12 lamps and ballasts	416.00	0.69	-4.85	$65	$23	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
T5 or reduced wattage T8 relamp and reballast upgrading an existing 32W T8	100.24	0.02	-1.82	$61	$12	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
2-foot T8 lamps (17W) and ballasts replacing 2-foot T12 lamps/ballasts OR replacing 4-foot T12 U-tube lamps/ballasts	322.91	0.06	-3.70	$22	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
New high performance T8 fixture (with or without a reflector) replacing an existing T12 fixture	406.83	0.07	-5.79	$58	$14	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
New T5 fluorescent replacing an existing T12	819.34	0.15	-12.50	$70	$17	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
High efficiency T5 or T8 fluorescent fixtures replacing existing T12 recessed or surface mounted troffer (prismatic, parabolic, or semi-indirect fixture)	544.22	0.09	-6.55	$50	$12	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Fixture mounted occupancy sensor for fluorescent or LED systems	311.90	0.13	-3.57	$125	$39	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Remote mounted occupancy sensors using ultrasonic or passive infrared technology	1,100.00	0.00	-0.17	$54	$39	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Wall switch plate mounted occupancy sensors using ultrasonic or passive infrared technology	711.00	0.00	-0.06	$42	$39	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Low wattage occupancy sensors or daylight dimming controls	176.00	0.00	-0.04	$54	$7	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED lamp	242.31	0.07	-3.29	$36	$19	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED recessed down fixture (18W or less per fixture), replacing 60-100W incandescent lamp	293.01	0.06	-3.69	$36	$19	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Hard wired CFL fixtures replacing existing incandescent fixtures	339.35	0.09	-3.79	$45	$24	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Exterior Lighting	501.00	0.00	0.00	$110	$53	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Permanent Fixture/Lamp Removal	624.25	0.11	-7.36	$12	$4	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Glass Door LED Cooler/Freezer Lighting	889.32	0.11	0.00	$208	$41	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Glass Door LED cooler/Freezer Lighting Controls/Sensors	100.21	0.04	0.00	$54	$16	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Fixture mounted occupancy sensor or daylighting controls for HID systems	335.56	0.03	-5.41	$125	$52	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED, T-1 or electroluminescent exit sign	326.29	0.03	-4.24	$30	$26	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
LED Exit Sign Retro-fit Kit 6W or less	380.56	0.10	-34.71	$30	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Interior LED Lamps and Fixtures	136.00	0.08	-13.63	$40	$14	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Air Conditioner Tune-Up	878.00	0.39	0.00	$175	$163	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (up to 65,000 Btuh input, minimum 15 SEER)	514.38	0.50	0.00	$300	$65	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (65,000 to 134,999 Btuh input, minimum 12 EER)	744.50	0.75	0.00	$600	$65	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (240,000 to 759,999 Btuh input, minimum 10.8 EER/12.0 IPLV)	9,363.21	9.27	0.00	$4,300	$390	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps (760,000 or more Btuh input, minimum 10.2 EER/11.0 IPLV)	15,220.95	15.56	0.00	$6,500	$650	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Air-Cooled Chillers (up to 150 tons)	11,888.10	9.00	0.00	$9,525	$650	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Unitary and Split AC Systems and Air Source Heat Pumps 135,000 to 239,999 Btuh input, greater than 12.0 EER)	2,850.23	2.84	0.00	$900	$195	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Air-Cooled Chillers (150 tons and larger)	17,844.89	18.33	0.00	$25,400	$650	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
PTAC/PTHP less than 65kBtuh input, new installation	179.18	0.20	0.00	$84	$21	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Variable Frequency Drives on HVAC Motors	11,645.00	1.12	0.00	$1,700	$1,430	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
High Efficiency Tanked Water Heater (electric)	5,005.72	0.57	0.00	$1,350	$195	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
High Efficiency Tankless Water Heaters (electric)	7,925.10	0.90	0.00	$1,350	$390	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
PTAC/PTHP less than 65,000 Btuh input, replacing an existing unit	358.62	0.27	0.00	$84	$29	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Beverage Machine Control	1,411.33	0.00	0.00	$180	$130	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Snack Machine Control	342.75	0.00	0.00	$80	$39	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Automatic Door Closer for Walk-in Freezer/Cooler (back access door) or Walk-in Cooler Door, or Walk-in Freezer Door	1,625.00	0.22	0.00	$157	$39	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Auto Closer for Display Case Door: Reach-in Cooler Door or Reach-in Freezer Door	1,625.00	0.22	0.00	$157	$39	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Strip Curtain on Walk-in Coolers or Freezers	1,698.00	0.20	0.00	$286	$85	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Night Curtain for Open Cooler	94.50	0.00	0.00	$38	$27	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Glass Door Freezer (31-50 cu ft)	0.00	0.00	0.00	$166	$390	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Glass Door Freezer (51 cu ft or more)	0.00	0.00	0.00	$407	$650	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Anti Sweat Heater Control, Freezer	0.00	0.00	0.00	$250	$325	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Anti Sweat Heater Control, Cooler	0.00	0.00	0.00	$250	$325	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Evaporator Fan Controls	478.00	0.06	0.00	$291	$78	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (up to 15 cu ft)	269.90	0.03	0.00	$142	$46	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (15-30 cu ft)	595.40	0.06	0.00	$166	$65	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (31-50 cu ft)	958.40	0.10	0.00	$166	$130	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Solid Door Freezer (51 cu ft or more)	2,765.50	0.30	0.00	$407	$260	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Walk-in Cooler	357.50	0.04	0.00	$50	$33	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Walk-in Freezer	577.00	0.09	0.00	$50	$46	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Reach-In Cooler	343.00	0.03	0.00	$50	$33	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
EC Motor for Reach-In Freezer	516.50	0.04	0.00	$50	$46	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
High Efficiency High Speed Exhaust/Ventilation Fans (24-35 in diameter)	372.14	0.12	0.00	$150	$33	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency High Speed Exhaust/Ventilation Fans (36-47 in diameter)	625.23	0.20	0.00	$150	$65	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency High Speed Exhaust/Ventilation Fans (48-71 in diameter)	1,122.36	0.36	0.00	$150	$130	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Circulation Fans (24-35 in diameter)	372.14	0.12	0.00	$150	$33	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Circulation Fans (36-47 in diameter)	625.23	0.20	0.00	$150	$65	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Circulation Fans (48-71 in diameter)	1,122.36	0.36	0.00	$150	$130	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Volume Low Speed (HVLS) Fans	8,379.47	3.07	0.00	$4,185	$1,300	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Equipment Heater Timers	664.00	0.00	0.00	$10	$13	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Live Stock Waterer (electrically heated)	1,592.85	0.53	0.00	$788	$98	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Live Stock Waterer (energy free or ground source heat)	3,337.40	0.83	0.00	$1,450	$130	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Guest Room Energy Management (GREM) Controls on PTAC System	1,686.50	0.84	0.00	$260	$104	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Guest Room Energy Management (GREM) Controls on PTHP System	1,076.50	0.84	0.00	$260	$65	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
High Efficiency Ice Maker (101-200 lbs)	243.66	0.05	0.00	$296	$130	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (201-300 lbs)	383.38	0.07	0.00	$312	$195	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (301-400 lbs)	509.43	0.10	0.00	$559	$195	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (401-500 lbs)	616.18	0.12	0.00	$981	$228	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (501-1000 lbs)	915.87	0.17	0.00	$1,485	$293	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (1001-1500 lbs)	1,567.44	0.29	0.00	$1,821	$455	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
High Efficiency Ice Maker (1501 and up lbs)	1,693.43	0.32	0.00	$2,194	$455	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Electric Steamer (3 pan)	13,649.19	2.49	0.00	$2,490	$390	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Electric Steamer (4 pan)	18,592.13	3.39	0.00	$2,490	$455	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Electric Steamer (5 pan)	23,749.42	4.33	0.00	$2,490	$520	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Electric Steamer (6 pan)	28,693.00	5.24	0.00	$2,490	$585	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Hot Holding Cabinet (half size)	2,628.00	1.20	0.00	$1,500	$260	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Hot Holding Cabinet (three-quarter size)	3,942.00	1.80	0.00	$1,800	$390	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Hot Holding Cabinet (full size)	9,308.00	4.25	0.00	$1,200	$650	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Electric Griddle	2,597.00	0.53	0.00	$0	$156	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Dishwasher, High Temp (Includes Booster Heater)	0.00	0.00	0.00	$443	$1,170	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Refrigeration Tune-up	5,220.00	0.00	0.00	$350	$260	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
VFD	11,337.00	1.12	0.00	$1,700	$1,443	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
GE UltraMax Ballast 232-MAX/L/Ultra	83.43	0.02	-1.35	$19	$8	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE UltraMax Ballast 332-MAX/L/Ultra	155.20	0.04	-2.50	$22	$12	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE UltraMax Ballast 432-MAX/L/Ultra	390.67	0.10	-6.30	$24	$15	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE Ecolux Starcoat F32T8 (case of 36)	2,205.00	0.55	-35.56	$120	$16	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 13W Eco$ave™SpringLight 1ES13	195.28	0.05	-3.15	$2	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 20W SpringLight 1ES20	256.42	0.06	-4.14	$2	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 23w Eco$ave SpringLight 1ES23	228.45	0.06	-3.68	$2	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Earthmate 15w Spiral E1552AK	177.14	0.04	-2.86	$2	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Earthmate 20w Spiral E2052AK	411.54	0.10	-6.64	$3	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w G25 Globe (2G2514)	198.53	0.05	-3.20	$4	$3	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Maxlite 25w MicroMax MLM25SWW	177.68	0.04	-2.87	$2	$1	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Harmony 20w Lightwiz Spiral(H20027S)	119.57	0.03	-1.93	$3	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Harmony Light 25w/MaxLite 25w	257.91	0.06	-4.16	$2	$2	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Feit 23w PAR-38 EcoBulb Flood (EST23PAR38T)	655.53	0.16	-10.57	$7	$4	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE 15w R30 Soft White Dimmable Flood (FLE 15/2/DV/R30)	109.60	0.03	-1.77	$13	$4	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
GE 15w R30 Soft White Flood (FLE 15/2/R30XL)	288.50	0.07	-4.65	$7	$5	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w R30 Reflector 803014	125.93	0.03	-2.03	$4	$3	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Cree LR6 Downlight Module LR6-27K	306.20	0.08	-4.94	$50	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Cree CR6 Downlight Retrofit	309.00	0.08	-4.98	$50	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Phillips 12w Endura LED A19 912E26A60)	178.67	0.04	-2.88	$29	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Phillips 12w Endura LED TM Par30	178.67	0.04	-2.88	$40	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Philips 17w EnduraLED PAR38	222.76	0.06	-3.59	$50	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Phillips 10w Endura LED A19 L Prize	115.83	0.03	-1.87	$29	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Sylvania 8W UltraLED PAR20 (LED8PAR20/DIM/830/NFL25)	125.00	0.01	-0.85	$40	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w 25 Deg Par30 LED14E26P3030KNFL	125.93	0.03	-2.03	$40	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 14w 40 Deg Beam Angle PAR30 LED	125.93	0.03	-2.03	$40	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 17w 25 Deg Par38 LED17E26P3830KNFL	227.10	0.06	-3.66	$50	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 17w 40 Deg Par38 LED17E26P3830KNFL	271.70	0.07	-4.38	$50	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP 9W LED PAR20 (LED9E26P2027KFL)	115.83	0.03	-1.87	$40	$13	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP Exit Sign Retrofit Set 20714	194.99	0.05	-3.15	$30	$7	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
TCP Red LED Exit Sign with Battery (22743D)	476.88	0.12	-7.69	$30	$16	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Hubbell White Wall Switch 120/277 1WS-ZP-3P-W	443.00	0.05	-3.00	$42	$26	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Hubbell Ivory Motion-Sensing Wall Switch 120/277 Iws-ZP-3P-I	443.00	1.17	-75.76	$42	$26	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Vending Miser VM150	1,613.00	0.40	0.00	$180	$130	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Vending Miser VM151	1,613.00	0.40	0.00	$180	$130	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Vending Miser EZ VM170	1,613.00	0.40	0.00	$180	$130	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Vending Mizer EZ VM171	1,613.00	0.40	0.00	$180	$130	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer (Primary with Sensor) SM150	387.00	0.10	0.00	$80	$39	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer SM151-Secondary W/cable	387.00	0.10	0.00	$80	$39	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer (Primary with Sensor) SM170 Machine Mount	387.00	0.10	0.00	$80	$39	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
SnackMizer (Secondary W/Cable) SM171 Machine Mount	387.00	0.10	0.00	$80	$39	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Gas Boiler Tune-Up	0.00	0.00	226.76	$2,490	$1,062	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Boiler Replacement (AFUE 85% min)	0.00	0.00	573.42	$4,900	$663	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Boiler Replacement (Thermal Eff 90%)	0.00	0.00	686.65	$9,600	$2,301	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Furnace Replacement (92% AFUE)	0.00	0.00	184.07	$477	$585	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Furnace Replacement (94% AFUE)	0.00	0.00	166.20	$657	$780	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
High Efficiency Tankless Water Heater (gas)	0.00	0.00	172.09	$2,891	$390	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80

Measure	kWh Savings / yr / unit	kW Savings / yr / unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
High Efficiency Condensing Tanked Water Heater (gas)	0.00	0.00	1,246.25	$1,350	$390	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
High Efficiency Tanked Water Heater (gas)	0.00	0.00	251.00	$209	$195	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Gas Steamer (5 pan)	0.00	0.00	1,678.29	$998	$1,300	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Gas Steamer (6 pan)	0.00	0.00	1,808.98	$998	$1,560	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Gas Griddle	0.00	0.00	149.00	$60	$65	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Gas Fryer	0.00	0.00	505.00	$1,200	$520	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Steam Trap Survey (HVAC)	0.00	0.00	0.00	$0	$39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Steam Trap Repair / Replacement (HVAC)	0.00	0.00	75.00	$77	$130	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Steam Trap Survey (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	0.00	0.00	0.00	$0	$39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Steam Trap Repair / Replacement (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	0.00	0.00	470.00	$276	$351	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

DS2 - Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Highbay Fixture Replacement Option	7,176	7,386	7,955	903.94	903.94	903.94	-9.82	-9.82	-9.82
T8 U-tube Lamps and Ballasts Replacing T12 U-bend Lamps and Ballasts	1,173	1,250	1,420	106.91	106.91	106.91	-1.07	-1.07	-1.07
New, high performance T8 (32W) lamps and ballasts replacing existing T12 lamps and ballasts	5,014	5,398	5,682	195.59	195.59	195.59	-2.86	-2.86	-2.86
Reduced wattage T8 (28W) lamps and ballasts replacing existing T12 lamps and ballasts	20,056	21,023	22,727	186.19	186.19	186.19	-2.70	-2.70	-2.70
Ultra-low wattage T8 (25W) lamps and ballasts replacing existing T12 lamps and ballasts	2,098	2,557	2,841	259.17	259.17	259.17	-3.02	-3.02	-3.02
T5 or reduced wattage T8 relamp and reballast upgrading an existing 32W T8	360	360	398	62.45	62.45	62.45	-1.13	-1.13	-1.13
2-foot T8 lamps (17W) and ballasts replacing 2-foot T12 lamps/ballasts OR replacing 4-foot T12 U-tube lamps/ballasts	256	341	398	201.17	201.17	201.17	-2.30	-2.30	-2.30
New high performance T8 fixture (with or without a reflector) replacing an existing T12 fixture	11,701	12,500	13,636	253.45	253.45	253.45	-3.61	-3.61	-3.61
New T5 fluorescent replacing an existing T12	3,884	3,977	4,545	510.45	510.45	510.45	-7.79	-7.79	-7.79
High efficiency T5 or T8 fluorescent fixtures replacing existing T12 recessed or surface mounted troffer (prismatic, parabolic, or semi-indirect fixture)	4,986	5,114	5,682	339.05	339.05	339.05	-4.08	-4.08	-4.08
Fixture mounted occupancy sensor for fluorescent or LED systems	2,250	2,841	3,693	194.31	194.31	194.31	-2.22	-2.22	-2.22
Remote mounted occupancy sensors using ultrasonic or passive infrared technology	159	182	284	685.30	685.30	685.30	-0.10	-0.10	-0.10
Wall switch plate mounted occupancy sensors using ultrasonic or passive infrared technology	364	398	511	442.95	442.95	442.95	-0.04	-0.04	-0.04
Low wattage occupancy sensors or daylight dimming controls	352	381	398	109.65	109.65	109.65	-0.03	-0.03	-0.03
LED lamp	12,773	22,727	26,420	150.96	150.96	150.96	-2.05	-2.05	-2.05
LED recessed down fixture (18W or less per fixture), replacing 60-100W incandescent lamp	193	455	568	182.55	182.55	182.55	-2.30	-2.30	-2.30
Hard wired CFL fixtures replacing existing incandescent fixtures	50	114	142	211.42	211.42	211.42	-2.36	-2.36	-2.36
Exterior Lighting	1,305	1,605	2,006	312.12	312.12	312.12	0.00	0.00	0.00
Permanent Fixture/Lamp Removal	719	1,136	1,420	388.91	388.91	388.91	-4.58	-4.58	-4.58
Glass Door LED Cooler/Freezer Lighting	124	170	227	554.04	554.04	554.04	0.00	0.00	0.00

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Glass Door LED cooler/Freezer Lighting Controls/Sensors	2	3	3	62.43	62.43	62.43	0.00	0.00	0.00
Fixture mounted occupancy sensor or daylighting controls for HID systems	14	14	17	209.05	209.05	209.05	-3.37	-3.37	-3.37
LED, T-1 or electroluminescent exit sign	5,012	5,114	6,818	203.28	203.28	203.28	-2.64	-2.64	-2.64
LED Exit Sign Retro-fit Kit 6W or less	0	0	0	237.09	237.09	237.09	-21.63	-21.63	-21.63
Interior LED Lamps and Fixtures	1,991	3,977	7,386	84.73	84.73	84.73	-8.49	-8.49	-8.49
Air Conditioner Tune-Up	495	495	495	380.17	380.17	380.17	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (up to 65,000 Btuh input, minimum 15 SEER)	140	140	140	222.73	222.73	222.73	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (65,000 to 134,999 Btuh input, minimum 12 EER)	95	95	95	322.37	322.37	322.37	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (240,000 to 759,999 Btuh input, minimum 10.8 EER/12.0 IPLV)	15	15	15	4,054.27	4,054.27	4,054.27	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps (760,000 or more Btuh input, minimum 10.2 EER/11.0 IPLV)	1	1	1	6,590.67	6,590.67	6,590.67	0.00	0.00	0.00
Air-Cooled Chillers (up to 150 tons)	4	4	4	5,147.55	5,147.55	5,147.55	0.00	0.00	0.00
Unitary and Split AC Systems and Air Source Heat Pumps 135,000 to 239,999 Btuh input, greater than 12.0 EER)	2	2	2	1,234.15	1,234.15	1,234.15	0.00	0.00	0.00
Air-Cooled Chillers (150 tons and larger)	1	1	1	7,726.84	7,726.84	7,726.84	0.00	0.00	0.00
PTAC/PTHP less than 65kBtuh input, new installation	1	1	1	77.58	77.58	77.58	0.00	0.00	0.00
Variable Frequency Drives on HVAC Motors	9	9	9	5,042.29	5,042.29	5,042.29	0.00	0.00	0.00
High Efficiency Tanked Water Heater (electric)	1	1	1	2,167.48	2,167.48	2,167.48	0.00	0.00	0.00
High Efficiency Tankless Water Heaters (electric)	1	1	1	3,431.57	3,431.57	3,431.57	0.00	0.00	0.00
PTAC/PTHP less than 65,000 Btuh input, replacing an existing unit	1	1	1	155.28	155.28	155.28	0.00	0.00	0.00
Beverage Machine Control	0	0	0	1,175.64	1,175.64	1,175.64	0.00	0.00	0.00
Snack Machine Control	0	0	0	285.51	285.51	285.51	0.00	0.00	0.00
Automatic Door Closer for Walk-in Freezer/Cooler (back access door) or Walk-in Cooler Door, or Walk-in Freezer Door	99	99	99	1,353.63	1,353.63	1,353.63	0.00	0.00	0.00
Auto Closer for Display Case Door: Reach-in Cooler Door or Reach-in Freezer Door	0	0	0	1,353.63	1,353.63	1,353.63	0.00	0.00	0.00
Strip Curtain on Walk-in Coolers or Freezers	20	20	20	1,414.43	1,414.43	1,414.43	0.00	0.00	0.00

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Night Curtain for Open Cooler	95	95	95	78.72	78.72	78.72	0.00	0.00	0.00
Glass Door Freezer (31-50 cu ft)	1	1	1	0.00	0.00	0.00	0.00	0.00	0.00
Glass Door Freezer (51 cu ft or more)	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Anti Sweat Heater Control, Freezer	189	189	189	0.00	0.00	0.00	0.00	0.00	0.00
Anti Sweat Heater Control, Cooler	471	471	471	0.00	0.00	0.00	0.00	0.00	0.00
Evaporator Fan Controls	0	0	0	398.17	398.17	398.17	0.00	0.00	0.00
Solid Door Freezer (up to 15 cu ft)	0	0	0	224.83	224.83	224.83	0.00	0.00	0.00
Solid Door Freezer (15-30 cu ft)	0	0	0	495.97	495.97	495.97	0.00	0.00	0.00
Solid Door Freezer (31-50 cu ft)	0	0	0	798.35	798.35	798.35	0.00	0.00	0.00
Solid Door Freezer (51 cu ft or more)	0	0	0	2,303.66	2,303.66	2,303.66	0.00	0.00	0.00
EC Motor for Walk-in Cooler	59	59	59	297.80	297.80	297.80	0.00	0.00	0.00
EC Motor for Walk-in Freezer	47	47	47	480.64	480.64	480.64	0.00	0.00	0.00
EC Motor for Reach-In Cooler	180	180	180	285.72	285.72	285.72	0.00	0.00	0.00
EC Motor for Reach-In Freezer	54	54	54	430.24	430.24	430.24	0.00	0.00	0.00
High Efficiency High Speed Exhaust/Ventilation Fans (24-35 in diameter)	0	0	0	283.94	283.94	283.94	0.00	0.00	0.00
High Efficiency High Speed Exhaust/Ventilation Fans (36-47 in diameter)	0	0	0	477.05	477.05	477.05	0.00	0.00	0.00
High Efficiency High Speed Exhaust/Ventilation Fans (48-71 in diameter)	1	1	1	856.36	856.36	856.36	0.00	0.00	0.00
High Efficiency Circulation Fans (24-35 in diameter)	0	0	0	283.94	283.94	283.94	0.00	0.00	0.00
High Efficiency Circulation Fans (36-47 in diameter)	0	0	0	477.05	477.05	477.05	0.00	0.00	0.00
High Efficiency Circulation Fans (48-71 in diameter)	2	2	2	856.36	856.36	856.36	0.00	0.00	0.00
High Volume Low Speed (HVLS) Fans	0	0	0	6,393.54	6,393.54	6,393.54	0.00	0.00	0.00
Equipment Heater Timers	0	0	0	506.63	506.63	506.63	0.00	0.00	0.00
Live Stock Waterer (electrically heated)	0	0	0	1,215.34	1,215.34	1,215.34	0.00	0.00	0.00
Live Stock Waterer (energy free or ground source heat)	1	1	1	2,546.44	2,546.44	2,546.44	0.00	0.00	0.00
Guest Room Energy Management (GREM) Controls on PTAC System	153	153	153	1,286.80	1,286.80	1,286.80	0.00	0.00	0.00
Guest Room Energy Management (GREM) Controls on PTHP System	0	0	0	821.37	821.37	821.37	0.00	0.00	0.00
High Efficiency Ice Maker (101-200 lbs)	0	0	0	202.97	202.97	202.97	0.00	0.00	0.00
High Efficiency Ice Maker (201-300 lbs)	0	0	0	319.36	319.36	319.36	0.00	0.00	0.00
High Efficiency Ice Maker (301-400 lbs)	0	0	0	424.36	424.36	424.36	0.00	0.00	0.00
High Efficiency Ice Maker (401-500 lbs)	0	0	0	513.28	513.28	513.28	0.00	0.00	0.00

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
High Efficiency Ice Maker (501-1000 lbs)	0	0	0	762.92	762.92	762.92	0.00	0.00	0.00
High Efficiency Ice Maker (1001-1500 lbs)	0	0	0	1,305.68	1,305.68	1,305.68	0.00	0.00	0.00
High Efficiency Ice Maker (1501 and up lbs)	0	0	0	1,410.63	1,410.63	1,410.63	0.00	0.00	0.00
Electric Steamer (3 pan)	0	0	0	7,411.51	7,411.51	7,411.51	0.00	0.00	0.00
Electric Steamer (4 pan)	0	0	0	10,095.53	10,095.53	10,095.53	0.00	0.00	0.00
Electric Steamer (5 pan)	0	0	0	12,895.94	12,895.94	12,895.94	0.00	0.00	0.00
Electric Steamer (6 pan)	0	0	0	15,580.30	15,580.30	15,580.30	0.00	0.00	0.00
Hot Holding Cabinet (half size)	0	0	0	1,427.00	1,427.00	1,427.00	0.00	0.00	0.00
Hot Holding Cabinet (three-quarter size)	0	0	0	2,140.51	2,140.51	2,140.51	0.00	0.00	0.00
Hot Holding Cabinet (full size)	0	0	0	5,054.24	5,054.24	5,054.24	0.00	0.00	0.00
Electric Griddle	0	0	0	1,410.17	1,410.17	1,410.17	0.00	0.00	0.00
Dishwasher, High Temp (Includes Booster Heater)	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Refrigeration Tune-up	288	288	288	4,332.60	4,332.60	4,332.60	0.00	0.00	0.00
VFD	151	151	151	9,103.61	9,103.61	9,103.61	0.00	0.00	0.00
GE UltraMax Ballast 232-MAX/L/Ultra	415	413	412	51.98	51.98	51.98	-0.84	-0.84	-0.84
GE UltraMax Ballast 332-MAX/L/Ultra	66	66	65	96.69	96.69	96.69	-1.56	-1.56	-1.56
GE UltraMax Ballast 432-MAX/L/Ultra	360	359	357	243.39	243.39	243.39	-3.93	-3.93	-3.93
GE Ecolux Starcoat F32T8 (case of 36)	1	1	1	1,373.72	1,373.72	1,373.72	-22.16	-22.16	-22.16
TCP 13W Eco$ave™SpringLight 1ES13	1,714	1,708	1,702	121.66	121.66	121.66	-1.96	-1.96	-1.96
TCP 20W SpringLight 1ES20	349	348	346	159.75	159.75	159.75	-2.58	-2.58	-2.58
TCP 23w Eco$ave SpringLight 1ES23	904	900	897	142.32	142.32	142.32	-2.30	-2.30	-2.30
Earthmate 15w Spiral E1552AK	49	49	49	110.36	110.36	110.36	-1.78	-1.78	-1.78
Earthmate 20w Spiral E2052AK	188	187	187	256.39	256.39	256.39	-4.14	-4.14	-4.14
TCP 14w G25 Globe (2G2514)	70	70	70	123.68	123.68	123.68	-1.99	-1.99	-1.99
Maxlite 25w MicroMax MLM25SWW	419	417	416	110.69	110.69	110.69	-1.79	-1.79	-1.79
Harmony 20w Lightwiz Spiral(H20027S)	65	64	64	74.49	74.49	74.49	-1.20	-1.20	-1.20
Harmony Light 25w/MaxLite 25w	442	441	439	160.68	160.68	160.68	-2.59	-2.59	-2.59
Feit 23w PAR-38 EcoBulb Flood (EST23PAR38T)	55	55	55	408.40	408.40	408.40	-6.59	-6.59	-6.59
GE 15w R30 Soft White Dimmable Flood (FLE 15/2/DV/R30)	69	68	68	68.28	68.28	68.28	-1.10	-1.10	-1.10
GE 15w R30 Soft White Flood (FLE 15/2/R30XL)	16	16	16	179.74	179.74	179.74	-2.90	-2.90	-2.90
TCP 14w R30 Reflector 803014	758	755	753	78.45	78.45	78.45	-1.27	-1.27	-1.27
Cree LR6 Downlight Module LR6-27K	14	14	14	190.76	190.76	190.76	-3.08	-3.08	-3.08
Cree CR6 Downlight Retrofit	1	1	1	192.51	192.51	192.51	-3.10	-3.10	-3.10
Phillips 12w Endura LED A19 912E26A60)	25	25	25	111.31	111.31	111.31	-1.80	-1.80	-1.80

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Phillips 12w Endura LED TM Par30	18	18	18	111.31	111.31	111.31	-1.80	-1.80	-1.80
Philips 17w EnduraLED PAR38	23	23	23	138.78	138.78	138.78	-2.24	-2.24	-2.24
Phillips 10w Endura LED A19 L Prize	1	1	1	72.16	72.16	72.16	-1.16	-1.16	-1.16
Sylvania 8W UltraLED PAR20 (LED8PAR20/DIM/830/NFL25)	1	1	1	77.88	77.88	77.88	-0.53	-0.53	-0.53
TCP 14w 25 Deg Par30 LED14E26P3030KNFL	1	1	1	78.45	78.45	78.45	-1.27	-1.27	-1.27
TCP 14w 40 Deg Beam Angle PAR30 LED	1	1	1	78.45	78.45	78.45	-1.27	-1.27	-1.27
TCP 17w 25 Deg Par38 LED17E26P3830KNFL	1	1	1	141.48	141.48	141.48	-2.28	-2.28	-2.28
TCP 17w 40 Deg Par38 LED17E26P3830KNFL	1	1	1	169.27	169.27	169.27	-2.73	-2.73	-2.73
TCP 9W LED PAR20 (LED9E26P2027KFL)	1	1	1	72.16	72.16	72.16	-1.16	-1.16	-1.16
TCP Exit Sign Retrofit Set 20714	110	109	109	121.48	121.48	121.48	-1.96	-1.96	-1.96
TCP Red LED Exit Sign with Battery (22743D)	530	528	526	297.10	297.10	297.10	-4.79	-4.79	-4.79
Hubbell White Wall Switch 120/277 1WS-ZP-3P-W	1	1	1	275.99	275.99	275.99	-1.87	-1.87	-1.87
Hubbell Ivory Motion-Sensing Wall Switch 120/277 Iws-ZP-3P-I	116	116	116	275.99	275.99	275.99	-47.20	-47.20	-47.20
Vending Miser VM150	4	4	4	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
Vending Miser VM151	3	3	3	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
Vending Miser EZ VM170	3	3	3	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
Vending Mizer EZ VM171	1	1	1	1,343.63	1,343.63	1,343.63	0.00	0.00	0.00
SnackMizer (Primary with Sensor) SM150	1	1	1	322.37	322.37	322.37	0.00	0.00	0.00
SnackMizer SM151-Secondary W/cable	1	1	1	322.37	322.37	322.37	0.00	0.00	0.00
SnackMizer (Primary with Sensor) SM170 Machine Mount	2	2	2	322.37	322.37	322.37	0.00	0.00	0.00
SnackMizer (Secondary W/Cable) SM171 Machine Mount	0	0	0	322.37	322.37	322.37	0.00	0.00	0.00
Gas Boiler Tune-Up	7	7	7	0.00	0.00	0.00	181.41	181.41	181.41
Gas Boiler Replacement (AFUE 85% min)	1	1	1	0.00	0.00	0.00	458.74	458.74	458.74
Gas Boiler Replacement (Thermal Eff 90%)	20	20	20	0.00	0.00	0.00	549.32	549.32	549.32
Gas Furnace Replacement (92% AFUE)	2	2	2	0.00	0.00	0.00	147.25	147.25	147.25
Gas Furnace Replacement (94% AFUE)	29	29	29	0.00	0.00	0.00	132.96	132.96	132.96
High Efficiency Tankless Water Heater (gas)	13	13	13	0.00	0.00	0.00	137.67	137.67	137.67
High Efficiency Condensing Tanked Water Heater (gas)	1	1	1	0.00	0.00	0.00	997.00	997.00	997.00
High Efficiency Tanked Water Heater (gas)	3	3	3	0.00	0.00	0.00	200.80	200.80	200.80
Gas Steamer (5 pan)	0	0	0	0.00	0.00	0.00	1,225.15	1,225.15	1,225.15
Gas Steamer (6 pan)	0	0	0	0.00	0.00	0.00	1,320.56	1,320.56	1,320.56

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Gas Griddle	0	0	0	0.00	0.00	0.00	108.77	108.77	108.77
Gas Fryer	0	0	0	0.00	0.00	0.00	368.65	368.65	368.65
Steam Trap Survey (HVAC)	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Steam Trap Repair / Replacement (HVAC)	287	287	287	0.00	0.00	0.00	75.00	75.00	75.00
Steam Trap Survey (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Steam Trap Repair / Replacement (Industrial Process or Multi-use HVAC/Process Boilers over 7,750 hours per year operation)	1,060	1,060	1,060	0.00	0.00	0.00	470.00	470.00	470.00

Business Custom Incentive Program

Measure Characterization

Measure	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Custom Electric (Includes New Const.)	Elec	Miscellaneous	Existing equipment	Upgraded equipment	13
Custom Gas (Includes New Const.)	Gas	Miscellaneous	Existing equipment	Upgraded equipment	13

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Custom Electric (Includes New Const.)	67,509,397	16,877	0	4,996,335	3,983,054	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Custom Gas (Includes New Const.)	0	0	1,073,807	1,402,070	674,351	0.83	0.83	0.83	0.76	0.76	0.76	0.76	0.76	0.76

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Custom Electric (Includes New Const.)	1	1	1	51,307,141	51,132,697	50,958,846	0	0	0
Custom Gas (Includes New Const.)	1	1	1	0	0	0	891,260	888,230	885,210

Business Retro-commissioning

Measure Characterization

Measure	Fuel	End Use	Baseline Description	Efficient Description	Measure life
Retro-commissioning Electric	Elec	Miscellaneous	No reset or correction	Efficiency improvements	5
Retro-commissioning Gas	Gas	Miscellaneous	No reset or correction	Efficiency improvements	5

Gross Measure Savings, Costs, and Net-to-Gross

Measure	kWh Savings / yr / unit	kW Savings / yr/ unit	Thm Savings / yr / unit	Incremental Cost / unit (yr 1)	Incentive / unit (yr 1)	kWh Net-To-Gross			kW Net-To-Gross			Thm Net-To-Gross		
						PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Retro-commissioning Electric	17,973,281	4,493	0	1,646,784	952,584	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Retro-commissioning Gas	0	0	140,717	111,870	87,667	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95

Measure Participation and Net Savings

Measure	Incremental Participants			YR1 net kWh savings (incremental)			YR1 net Thm savings (incremental)		
	PY7	PY8	PY9	PY7	PY8	PY9	PY7	PY8	PY9
Retro-commissioning Electric	1	1	1	17,074,617	17,016,563	16,958,707	0	0	0
Retro-commissioning Gas	1	1	1	0	0	0	133,681	133,227	132,774