

## Appendix B.3: Measure Details

The following tables show electric and gas technical measure inputs for the residential, commercial, and industrial sectors.

Table 1 – Residential Electric Measures Detail

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Air Purifier	Equipment	Air Purifier - ENERGY STAR	ENERGY STAR Air Purifier	Standard Air Purifier	Existing	Per Air Purifier	391	9	\$10.00	100%	75%	-\$0.02	161
Electric	Energy Efficiency	Manufactured	Air Purifier	Equipment	Air Purifier - ENERGY STAR	ENERGY STAR Air Purifier	Standard Air Purifier	New	Per Air Purifier	391	9	\$10.00	100%	75%	-\$0.02	64
Electric	Energy Efficiency	Manufactured	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	Existing	Per Cooking Oven	3	20	\$282.71	100%	95%	\$11.46	32
Electric	Energy Efficiency	Manufactured	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	New	Per Cooking Oven	3	20	\$282.71	100%	95%	\$11.46	21
Electric	Energy Efficiency	Manufactured	Cool Central	Equipment	Central Air Conditioner - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Central Air Conditioner SEER/EER 18/13 (Split System)	Federal Standard 2015 Central Air Conditioner SEER/EER 13/11.2 (Split System)	Existing	Per Central AC	69	15	\$1,788.00	100%	94%	\$3.31	491
Electric	Energy Efficiency	Manufactured	Cool Central	Equipment	Central Air Conditioner - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Central Air Conditioner SEER/EER 18/13 (Split System)	Federal Standard 2015 Central Air Conditioner SEER/EER 13/11.2 (Split System)	New	Per Central AC	55	15	\$1,490.00	100%	94%	\$3.44	155
Electric	Energy Efficiency	Manufactured	Cool Room	Equipment	Room AC - ENERGY STAR	ENERGY STAR Room AC - CEER 11.3 (8,000-13,999 Btuh)	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	Existing	Per Room AC	10	9	\$80.23	100%	49%	\$1.36	17
Electric	Energy Efficiency	Manufactured	Cool Room	Equipment	Room AC - ENERGY STAR	ENERGY STAR Room AC - CEER 11.3 (8,000-13,999 Btuh)	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	New	Per Room AC	8	9	\$80.23	100%	49%	\$1.60	5
Electric	Energy Efficiency	Manufactured	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced - Efficiency Dryer - EF 4.10	Federal Standard 2015 Dryer - CEF 3.73	Existing	Per Dryer	56	11	\$99.82	100%	100%	\$0.25	2,087
Electric	Energy Efficiency	Manufactured	Dryer	Equipment	Dryer - Heat Pump Dryer	Premium Efficiency - Heat Pump Dryer (0.23 kWh/kg Clothing)	Federal Standard 2015 Dryer - CEF 3.73	Existing	Per Dryer	375	16	\$416.53	25%	100%	\$0.12	5,946
Electric	Energy Efficiency	Manufactured	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced - Efficiency Dryer - EF 4.10	Federal Standard 2015 Dryer - CEF 3.73	New	Per Dryer	56	11	\$99.82	100%	100%	\$0.25	779
Electric	Energy Efficiency	Manufactured	Dryer	Equipment	Dryer - Heat Pump Dryer	Premium Efficiency - Heat Pump Dryer (0.23 kWh/kg Clothing)	Federal Standard 2015 Dryer - CEF 3.73	New	Per Dryer	375	16	\$416.53	25%	100%	\$0.12	2,076
Electric	Energy Efficiency	Manufactured	Freezer	Equipment	Freezer - RTF Tier 3	30%+ More Efficient Than Federal Standard	RTF Market Standard Freezer	Existing	Per Freezer	119	20	\$191.60	100%	100%	\$0.17	392
Electric	Energy Efficiency	Manufactured	Freezer	Equipment	Freezer - RTF Tier 3	30%+ More Efficient Than Federal Standard	RTF Market Standard Freezer	New	Per Freezer	119	20	\$191.60	100%	100%	\$0.17	867
Electric	Energy Efficiency	Manufactured	Heat Pump	Equipment	Heat Pump - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Heat Pump - SEER/EER 18/12.5 and HSPF 9.6 (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	Existing	Per Heat Pump	894	20	\$2,685.98	100%	99%	\$0.31	1,863
Electric	Energy Efficiency	Manufactured	Heat Pump	Equipment	Heat Pump - Ground Source	ENERGY STAR Ground Source Heat Pump - EER 17.1 and 3.6 COP (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	Existing	Per Heat Pump	1659	20	\$10,009.67	25%	99%	\$0.65	1,134

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Heat Pump	Equipment	Heat Pump - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Heat Pump - SEER/EER 18/12.5 and HSPF 9.6 (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	New	Per Heat Pump	490	20	\$2,079.47	100%	100%	\$0.45	598
Electric	Energy Efficiency	Manufactured	Heat Pump	Equipment	Heat Pump - Ground Source	ENERGY STAR Ground Source Heat Pump - EER 17.1 and 3.6 COP (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	New	Per Heat Pump	903	20	\$7,749.42	25%	100%	\$0.93	362
Electric	Energy Efficiency	Manufactured	Lighting Exterior	Equipment	CFL	CFL	Incandescent - EISA Standard	Existing	Per Lamp (Exterior)	48	4	\$1.12	92%	33%	-\$0.01	181
Electric	Energy Efficiency	Manufactured	Lighting Exterior	Equipment	LED	LED	Incandescent - EISA Standard	Existing	Per Lamp (Exterior)	59	12	\$11.05	8%	95%	\$0.01	84
Electric	Energy Efficiency	Manufactured	Lighting Exterior	Equipment	CFL	CFL	Incandescent - EISA Standard	New	Per Lamp (Exterior)	48	4	\$1.12	92%	33%	-\$0.01	100
Electric	Energy Efficiency	Manufactured	Lighting Exterior	Equipment	LED	LED	Incandescent - EISA Standard	New	Per Lamp (Exterior)	59	12	\$11.05	8%	95%	\$0.01	79
Electric	Energy Efficiency	Manufactured	Lighting Interior Specialty	Equipment	CFL - Specialty	CFL - Specialty	Incandescent - Specialty	Existing	Per Lamp (Interior Specialty)	31	8	\$1.28	45%	75%	-\$0.01	781
Electric	Energy Efficiency	Manufactured	Lighting Interior Specialty	Equipment	LED - Specialty	LED - Specialty	Incandescent - Specialty	Existing	Per Lamp (Interior Specialty)	36	12	\$11.88	55%	98%	\$0.03	5,020
Electric	Energy Efficiency	Manufactured	Lighting Interior Specialty	Equipment	CFL - Specialty	CFL - Specialty	Incandescent - Specialty	New	Per Lamp (Interior Specialty)	31	8	\$1.28	45%	75%	-\$0.01	432
Electric	Energy Efficiency	Manufactured	Lighting Interior Specialty	Equipment	LED - Specialty	LED - Specialty	Incandescent - Specialty	New	Per Lamp (Interior Specialty)	36	12	\$11.88	55%	98%	\$0.03	1,862
Electric	Energy Efficiency	Manufactured	Lighting Interior Standard	Equipment	LED	LED	Incandescent - EISA Standard	Existing	Per Lamp (Interior Standard)	22	12	\$11.05	75%	95%	\$0.06	4,924
Electric	Energy Efficiency	Manufactured	Lighting Interior Standard	Equipment	LED	LED	Incandescent - EISA Standard	New	Per Lamp (Interior Standard)	22	12	\$11.05	75%	95%	\$0.06	1,187
Electric	Energy Efficiency	Manufactured	Refrigerator	Equipment	Refrigerator - RTF Tier 3	30%+ more efficient than Federal Standard 2014 Refrigerator	RTF Market Baseline Refrigerator	Existing	Per Refrigerator	111	17	\$98.32	100%	100%	\$0.09	3,531
Electric	Energy Efficiency	Manufactured	Refrigerator	Equipment	Refrigerator - RTF Tier 3	30%+ more efficient than Federal Standard 2014 Refrigerator	RTF Market Baseline Refrigerator	New	Per Refrigerator	111	17	\$98.32	100%	100%	\$0.09	2,153
Electric	Energy Efficiency	Manufactured	Ventilation And Circulation	Equipment	Motor - ECM	ECM Motor	Standard Motor	Existing	Per Motor (Ventilation and Circulation)	352	20	\$172.26	50%	80%	\$0.03	484
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 2.05	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	54	15	\$681.20	60%	100%	\$1.58	43
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	80	15	\$505.75	60%	100%	\$0.78	179
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	616	15	\$6,307.25	5%	100%	\$1.28	110
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	1151	20	\$4,874.83	15%	100%	\$0.47	774
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 2.05	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	54	15	\$681.20	60%	100%	\$1.58	11
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	80	15	\$505.75	60%	100%	\$0.78	48
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	616	15	\$6,307.25	5%	100%	\$1.28	35

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	1151	20	\$4,874.83	15%	100%	\$0.47	235
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 1.43	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	1254	15	\$1,069.54	60%	100%	\$0.11	8,418
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	2024	15	\$1,605.29	60%	100%	\$0.10	41,194
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Water Heater - RTF Market Standard Storage	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	2306	20	\$5,999.89	15%	0%	\$0.29	9,494
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	2536	15	\$7,432.31	5%	100%	\$0.37	4,797
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 1.43	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	1254	15	\$1,069.54	60%	100%	\$0.11	3,213
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	2024	15	\$1,605.29	60%	100%	\$0.10	15,719
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	2306	20	\$5,999.89	15%	100%	\$0.29	6,172
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	2536	15	\$7,432.31	5%	100%	\$0.37	1,883
Electric	Energy Efficiency	Multifamily	Air Purifier	Equipment	Air Purifier - ENERGY STAR	ENERGY STAR Air Purifier	Standard Air Purifier	Existing	Per Air Purifier	391	9	\$10.00	100%	75%	-\$0.02	909
Electric	Energy Efficiency	Multifamily	Air Purifier	Equipment	Air Purifier - ENERGY STAR	ENERGY STAR Air Purifier	Standard Air Purifier	New	Per Air Purifier	391	9	\$10.00	100%	75%	-\$0.02	359
Electric	Energy Efficiency	Multifamily	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	Existing	Per Cooking Oven	3	20	\$282.71	100%	95%	\$11.46	115
Electric	Energy Efficiency	Multifamily	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	New	Per Cooking Oven	3	20	\$282.71	100%	95%	\$11.46	76
Electric	Energy Efficiency	Multifamily	Cool Central	Equipment	Central Air Conditioner - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Central Air Conditioner SEER/EER 18/13 (Split System)	Federal Standard 2015 Central Air Conditioner SEER/EER 13/11.2 (Split System)	Existing	Per Central AC	66	15	\$774.80	100%	100%	\$1.48	793
Electric	Energy Efficiency	Multifamily	Cool Central	Equipment	Central Air Conditioner - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Central Air Conditioner SEER/EER 18/13 (Split System)	Federal Standard 2015 Central Air Conditioner SEER/EER 13/11.2 (Split System)	New	Per Central AC	63	15	\$655.60	100%	100%	\$1.31	279
Electric	Energy Efficiency	Multifamily	Cool Room	Equipment	Room AC - ENERGY STAR	ENERGY STAR Room AC - CEER 11.3 (8,000-13,999 Btuh)	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	Existing	Per Room AC	4	9	\$80.23	100%	49%	\$3.72	12
Electric	Energy Efficiency	Multifamily	Cool Room	Equipment	Room AC - ENERGY STAR	ENERGY STAR Room AC - CEER 11.3 (8,000-13,999 Btuh)	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	New	Per Room AC	3	9	\$80.23	100%	49%	\$3.85	4
Electric	Energy Efficiency	Multifamily	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced - Efficiency Dryer - EF 4.10	Federal Standard 2015 Dryer - CEF 3.73	Existing	Per Dryer	56	11	\$99.82	100%	100%	\$0.25	6,233
Electric	Energy Efficiency	Multifamily	Dryer	Equipment	Dryer - Heat Pump Dryer	Premium Efficiency - Heat Pump Dryer (0.23 kWh/kg Clothing)	Federal Standard 2015 Dryer - CEF 3.73	Existing	Per Dryer	375	16	\$416.53	25%	100%	\$0.12	17,757
Electric	Energy Efficiency	Multifamily	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced - Efficiency Dryer - EF 4.10	Federal Standard 2015 Dryer - CEF 3.73	New	Per Dryer	56	11	\$99.82	100%	100%	\$0.25	2,327
Electric	Energy Efficiency	Multifamily	Dryer	Equipment	Dryer - Heat Pump Dryer	Premium Efficiency - Heat Pump Dryer (0.23 kWh/kg Clothing)	Federal Standard 2015 Dryer - CEF 3.73	New	Per Dryer	375	16	\$416.53	25%	100%	\$0.12	6,199
Electric	Energy Efficiency	Multifamily	Freezer	Equipment	Freezer - RTF Tier 3	30%+ More Efficient Than Federal	RTF Market Standard Freezer	Existing	Per Freezer	119	20	\$191.60	100%	100%	\$0.17	1,096

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						Standard										
Electric	Energy Efficiency	Multifamily	Freezer	Equipment	Freezer - RTF Tier 3	30%+ More Efficient Than Federal Standard	RTF Market Standard Freezer	New	Per Freezer	119	20	\$191.60	100%	100%	\$0.17	724
Electric	Energy Efficiency	Multifamily	Heat Pump	Equipment	Heat Pump - Advanced	Advanced Heat Pump - SEER/EER 16/12.5 and HSPF 10 (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	Existing	Per Heat Pump	886	20	\$559.04	100%	100%	\$0.04	315
Electric	Energy Efficiency	Multifamily	Heat Pump	Equipment	Heat Pump - Ground Source	ENERGY STAR Ground Source Heat Pump - EER 17.1 and 3.6 COP (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	Existing	Per Heat Pump	1379	20	\$3,551.81	25%	100%	\$0.26	164
Electric	Energy Efficiency	Multifamily	Heat Pump	Equipment	Heat Pump - Advanced	Advanced Heat Pump - SEER/EER 16/12.5 and HSPF 10 (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	New	Per Heat Pump	633	20	\$508.22	100%	100%	\$0.06	159
Electric	Energy Efficiency	Multifamily	Heat Pump	Equipment	Heat Pump - Ground Source	ENERGY STAR Ground Source Heat Pump - EER 17.1 and 3.6 COP (Split System)	Federal Standard 2015 Heat Pump - SEER/EER 14/12 and HSPF 8.2 (Split System)	New	Per Heat Pump	991	20	\$3,228.92	25%	100%	\$0.33	83
Electric	Energy Efficiency	Multifamily	Lighting Exterior	Equipment	CFL	CFL	Incandescent - EISA Standard	Existing	Per Lamp (Exterior)	48	4	\$1.12	92%	30%	-\$0.01	399
Electric	Energy Efficiency	Multifamily	Lighting Exterior	Equipment	LED	LED	Incandescent - EISA Standard	Existing	Per Lamp (Exterior)	59	12	\$11.05	8%	97%	\$0.01	485
Electric	Energy Efficiency	Multifamily	Lighting Exterior	Equipment	CFL	CFL	Incandescent - EISA Standard	New	Per Lamp (Exterior)	48	4	\$1.12	92%	30%	-\$0.01	216
Electric	Energy Efficiency	Multifamily	Lighting Exterior	Equipment	LED	LED	Incandescent - EISA Standard	New	Per Lamp (Exterior)	59	12	\$11.05	8%	97%	\$0.01	243
Electric	Energy Efficiency	Multifamily	Lighting Interior Specialty	Equipment	CFL - Specialty	CFL - Specialty	Incandescent - Specialty	Existing	Per Lamp (Interior Specialty)	31	8	\$1.28	45%	64%	-\$0.01	1,096
Electric	Energy Efficiency	Multifamily	Lighting Interior Specialty	Equipment	LED - Specialty	LED - Specialty	Incandescent - Specialty	Existing	Per Lamp (Interior Specialty)	36	12	\$11.88	55%	98%	\$0.03	19,436
Electric	Energy Efficiency	Multifamily	Lighting Interior Specialty	Equipment	CFL - Specialty	CFL - Specialty	Incandescent - Specialty	New	Per Lamp (Interior Specialty)	31	8	\$1.28	45%	64%	-\$0.01	529
Electric	Energy Efficiency	Multifamily	Lighting Interior Specialty	Equipment	LED - Specialty	LED - Specialty	Incandescent - Specialty	New	Per Lamp (Interior Specialty)	36	12	\$11.88	55%	98%	\$0.03	7,208
Electric	Energy Efficiency	Multifamily	Lighting Interior Standard	Equipment	LED	LED	Incandescent - EISA Standard	Existing	Per Lamp (Interior Standard)	22	12	\$11.05	75%	95%	\$0.06	10,317
Electric	Energy Efficiency	Multifamily	Lighting Interior Standard	Equipment	LED	LED	Incandescent - EISA Standard	New	Per Lamp (Interior Standard)	22	12	\$11.05	75%	95%	\$0.06	2,589
Electric	Energy Efficiency	Multifamily	Microwave	Equipment	Microwave - High Efficiency	High Efficiency Microwave	Federal Standard 2016 Microwave	Existing	Per Microwave Oven	10	20	\$79.60	100%	98%	\$0.92	563
Electric	Energy Efficiency	Multifamily	Microwave	Equipment	Microwave - High Efficiency	High Efficiency Microwave	Federal Standard 2016 Microwave	New	Per Microwave Oven	10	20	\$79.60	100%	98%	\$0.92	361
Electric	Energy Efficiency	Multifamily	Refrigerator	Equipment	Refrigerator - RTF Tier 3	30%+ more efficient than Federal Standard 2014 Refrigerator	RTF Market Baseline Refrigerator	Existing	Per Refrigerator	111	17	\$98.32	100%	100%	\$0.09	11,503
Electric	Energy Efficiency	Multifamily	Refrigerator	Equipment	Refrigerator - RTF Tier 3	30%+ more efficient than Federal Standard 2014 Refrigerator	RTF Market Baseline Refrigerator	New	Per Refrigerator	111	17	\$98.32	100%	100%	\$0.09	6,015
Electric	Energy Efficiency	Multifamily	Ventilation And Circulation	Equipment	Motor - ECM	ECM Motor	Standard Motor	Existing	Per Motor (Ventilation and Circulation)	243	20	\$172.26	50%	80%	\$0.06	401

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Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 2.05	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	31	15	\$681.20	30%	100%	\$2.81	67
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	45	15	\$505.75	30%	100%	\$1.40	92
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	347	15	\$6,307.25	5%	100%	\$2.29	112
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	512	20	\$4,874.83	15%	100%	\$1.07	628
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 2.05	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	31	15	\$681.20	30%	100%	\$2.81	14
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	45	15	\$505.75	30%	100%	\$1.40	20
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	347	15	\$6,307.25	5%	100%	\$2.29	30
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	512	20	\$4,874.83	15%	100%	\$1.07	158
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 1.43	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	706	15	\$1,069.54	30%	100%	\$0.21	20,153
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	1026	20	\$5,999.89	15%	100%	\$0.67	20,816
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	1139	15	\$1,605.29	30%	100%	\$0.18	32,795
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	1428	15	\$7,432.31	5%	100%	\$0.66	7,603
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 1.43	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	706	15	\$1,069.54	30%	100%	\$0.21	7,417
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	1026	20	\$5,999.89	15%	100%	\$0.67	7,463
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	1139	15	\$1,605.29	30%	100%	\$0.18	12,069
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	1428	15	\$7,432.31	5%	100%	\$0.66	2,890
Electric	Energy Efficiency	Single Family	Air Purifier	Equipment	Air Purifier - ENERGY STAR	ENERGY STAR Air Purifier	Standard Air Purifier	Existing	Per Air Purifier	391	9	\$10.00	100%	75%	-\$0.02	3,668
Electric	Energy Efficiency	Single Family	Air Purifier	Equipment	Air Purifier - ENERGY STAR	ENERGY STAR Air Purifier	Standard Air Purifier	New	Per Air Purifier	391	9	\$10.00	100%	75%	-\$0.02	1,448
Electric	Energy Efficiency	Single Family	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	Existing	Per Cooking Oven	3	20	\$282.71	100%	95%	\$11.46	384
Electric	Energy Efficiency	Single Family	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	New	Per Cooking Oven	3	20	\$282.71	100%	95%	\$11.46	254
Electric	Energy Efficiency	Single Family	Cool Central	Equipment	Central Air Conditioner - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Central Air Conditioner SEER/EER 18/13 (Split System)	Federal Standard 2015 Central Air Conditioner SEER/EER 13/11.2 (Split System)	Existing	Per Central AC	171	15	\$2,443.60	100%	95%	\$1.81	12,376
Electric	Energy Efficiency	Single Family	Cool Central	Equipment	Central Air Conditioner - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Central Air Conditioner SEER/EER 18/13 (Split System)	Federal Standard 2015 Central Air Conditioner SEER/EER 13/11.2 (Split System)	New	Per Central AC	125	15	\$1,966.80	100%	95%	\$1.99	2,598
Electric	Energy Efficiency	Single Family	Cool Room	Equipment	Room AC - ENERGY STAR	ENERGY STAR Room AC - CEER 11.3 (8,000-13,999 Btuh)	Federal Standard 2014 Room AC - CEER 10.9 (8,000-	Existing	Per Room AC	2	9	\$80.23	100%	49%	\$7.47	12

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
							13,999 Btuh)									
Electric	Energy Efficiency	Single Family	Cool Room	Equipment	Room AC - ENERGY STAR	ENERGY STAR Room AC - CEER 11.3 (8,000-13,999 Btuh)	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	New	Per Room AC	1	9	\$80.23	100%	49%	\$12.88	1
Electric	Energy Efficiency	Single Family	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced - Efficiency Dryer - EF 4.10	Federal Standard 2015 Dryer - CEF 3.73	Existing	Per Dryer	56	11	\$99.82	100%	100%	\$0.25	22,745
Electric	Energy Efficiency	Single Family	Dryer	Equipment	Dryer - Heat Pump Dryer	Premium Efficiency - Heat Pump Dryer (0.23 kWh/kg Clothing)	Federal Standard 2015 Dryer - CEF 3.73	Existing	Per Dryer	375	16	\$416.53	25%	100%	\$0.12	64,795
Electric	Energy Efficiency	Single Family	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced - Efficiency Dryer - EF 4.10	Federal Standard 2015 Dryer - CEF 3.73	New	Per Dryer	56	11	\$99.82	100%	100%	\$0.25	8,491
Electric	Energy Efficiency	Single Family	Dryer	Equipment	Dryer - Heat Pump Dryer	Premium Efficiency - Heat Pump Dryer (0.23 kWh/kg Clothing)	Federal Standard 2015 Dryer - CEF 3.73	New	Per Dryer	375	16	\$416.53	25%	100%	\$0.12	22,621
Electric	Energy Efficiency	Single Family	Freezer	Equipment	Freezer - RTF Tier 3	30%+ More Efficient Than Federal Standard	RTF Market Standard Freezer	Existing	Per Freezer	119	20	\$191.60	100%	100%	\$0.17	2,229
Electric	Energy Efficiency	Single Family	Freezer	Equipment	Freezer - RTF Tier 3	30%+ More Efficient Than Federal Standard	RTF Market Standard Freezer	New	Per Freezer	119	20	\$191.60	100%	100%	\$0.17	5,703
Electric	Energy Efficiency	Single Family	Heat Pump	Equipment	Heat Pump - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Heat Pump - SEER/EER 18/12.5 and HSPF 9.6 (Split System)	RTF Single Family Market Standard Heat Pump - SEER/EER 13/11.2 and HSPF 8.5 (Split System)	Existing	Per Heat Pump	1015	20	\$4,258.82	100%	100%	\$0.43	7,671
Electric	Energy Efficiency	Single Family	Heat Pump	Equipment	Heat Pump - Ground Source	ENERGY STAR Ground Source Heat Pump - EER 17.1 and 3.6 COP (Split System)	RTF Single Family Market Standard Heat Pump - SEER/EER 13/11.2 and HSPF 8.5 (Split System)	Existing	Per Heat Pump	2048	20	\$13,944.98	25%	100%	\$0.73	5,161
Electric	Energy Efficiency	Single Family	Heat Pump	Equipment	Heat Pump - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Heat Pump - SEER/EER 18/12.5 and HSPF 9.6 (Split System)	RTF Single Family Market Standard Heat Pump - SEER/EER 13/11.2 and HSPF 8.5 (Split System)	New	Per Heat Pump	547	20	\$3,220.09	100%	100%	\$0.62	2,322
Electric	Energy Efficiency	Single Family	Heat Pump	Equipment	Heat Pump - Ground Source	ENERGY STAR Ground Source Heat Pump - EER 17.1 and 3.6 COP (Split System)	RTF Single Family Market Standard Heat Pump - SEER/EER 13/11.2 and HSPF 8.5 (Split System)	New	Per Heat Pump	1074	20	\$10,543.78	25%	100%	\$1.06	1,520
Electric	Energy Efficiency	Single Family	Lighting Exterior	Equipment	CFL	CFL	Incandescent - EISA Standard	Existing	Per Lamp (Exterior)	48	4	\$1.12	92%	30%	-\$0.01	6,757
Electric	Energy Efficiency	Single Family	Lighting Exterior	Equipment	LED	LED	Incandescent - EISA Standard	Existing	Per Lamp (Exterior)	59	12	\$11.05	8%	95%	\$0.01	2,402
Electric	Energy Efficiency	Single Family	Lighting Exterior	Equipment	CFL	CFL	Incandescent - EISA Standard	New	Per Lamp (Exterior)	48	4	\$1.12	92%	30%	-\$0.01	3,795
Electric	Energy Efficiency	Single Family	Lighting Exterior	Equipment	LED	LED	Incandescent - EISA Standard	New	Per Lamp (Exterior)	59	12	\$11.05	8%	95%	\$0.01	3,200
Electric	Energy Efficiency	Single Family	Lighting Interior Specialty	Equipment	CFL - Specialty	CFL - Specialty	Incandescent - Specialty	Existing	Per Lamp (Interior Specialty)	31	8	\$1.28	45%	68%	-\$0.01	13,780
Electric	Energy Efficiency	Single Family	Lighting Interior Specialty	Equipment	LED - Specialty	LED - Specialty	Incandescent - Specialty	Existing	Per Lamp (Interior Specialty)	36	12	\$11.88	55%	98%	\$0.03	179,290
Electric	Energy Efficiency	Single Family	Lighting Interior Specialty	Equipment	CFL - Specialty	CFL - Specialty	Incandescent - Specialty	New	Per Lamp (Interior Specialty)	31	8	\$1.28	45%	68%	-\$0.01	7,980
Electric	Energy Efficiency	Single Family	Lighting Interior Specialty	Equipment	LED - Specialty	LED - Specialty	Incandescent - Specialty	New	Per Lamp (Interior Specialty)	36	12	\$11.88	55%	98%	\$0.03	66,154

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
									Specialty)							
Electric	Energy Efficiency	Single Family	Lighting Interior Standard	Equipment	LED	LED	Incandescent - EISA Standard	Existing	Per Lamp (Interior Standard)	22	12	\$11.05	75%	95%	\$0.06	73,551
Electric	Energy Efficiency	Single Family	Lighting Interior Standard	Equipment	LED	LED	Incandescent - EISA Standard	New	Per Lamp (Interior Standard)	22	12	\$11.05	75%	95%	\$0.06	17,034
Electric	Energy Efficiency	Single Family	Microwave	Equipment	Microwave - High Efficiency	High Efficiency Microwave	Federal Standard 2016 Microwave	Existing	Per Microwave Oven	10	20	\$79.60	100%	98%	\$0.92	2,020
Electric	Energy Efficiency	Single Family	Microwave	Equipment	Microwave - High Efficiency	High Efficiency Microwave	Federal Standard 2016 Microwave	New	Per Microwave Oven	10	20	\$79.60	100%	98%	\$0.92	1,296
Electric	Energy Efficiency	Single Family	Pool Pump	Equipment	Pool Pump - VSD	VSD Pool Pump	2 Speed Pool Pump	Existing	Per Pool Pump	251	10	\$314.00	75%	98%	\$0.18	16,550
Electric	Energy Efficiency	Single Family	Pool Pump	Equipment	Pool Pump - VSD	VSD Pool Pump	2 Speed Pool Pump	New	Per Pool Pump	251	10	\$314.00	100%	98%	\$0.18	1,321
Electric	Energy Efficiency	Single Family	Refrigerator	Equipment	Refrigerator - RTF Tier 3	30%+ more efficient than Federal Standard 2014 Refrigerator	RTF Market Baseline Refrigerator	Existing	Per Refrigerator	111	17	\$98.32	100%	100%	\$0.09	27,498
Electric	Energy Efficiency	Single Family	Refrigerator	Equipment	Refrigerator - RTF Tier 3	30%+ more efficient than Federal Standard 2014 Refrigerator	RTF Market Baseline Refrigerator	New	Per Refrigerator	111	17	\$98.32	100%	100%	\$0.09	22,077
Electric	Energy Efficiency	Single Family	Ventilation And Circulation	Equipment	Motor - ECM	ECM Motor	Standard Motor	Existing	Per Motor (Ventilation and Circulation)	433	20	\$172.26	50%	80%	\$0.02	6,239
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 2.05	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	50	15	\$681.20	60%	100%	\$1.71	273
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	74	15	\$505.75	60%	100%	\$0.85	1,123
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	569	15	\$6,307.25	5%	100%	\$1.39	686
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Heat Pump Water Heater - EF 1.99	Existing	Per Water Heater GT 55 Gal	1063	20	\$4,874.83	15%	100%	\$0.51	4,849
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 2.05	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	50	15	\$681.20	60%	100%	\$1.71	64
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	74	15	\$505.75	60%	100%	\$0.85	285
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	569	15	\$6,307.25	5%	100%	\$1.39	209
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Heat Pump Water Heater - EF 1.99	New	Per Water Heater GT 55 Gal	1063	20	\$4,874.83	15%	100%	\$0.51	1,404
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 1.43	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	1158	15	\$1,069.54	60%	100%	\$0.12	31,010
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	1870	15	\$1,605.29	60%	100%	\$0.11	151,661
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	2130	20	\$5,999.89	15%	100%	\$0.32	61,151
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.948	Existing	Per Water Heater LE 55 Gal	2343	15	\$7,432.31	5%	100%	\$0.40	17,618
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 1	RTF Tier 1 Heat Pump Water Heater - EF 1.43	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	1158	15	\$1,069.54	60%	100%	\$0.12	12,025

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - RTF Tier 2	RTF Tier 2 Heat Pump Water Heater - EF 2.08	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	1870	15	\$1,605.29	60%	100%	\$0.11	58,807
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	2130	20	\$5,999.89	15%	100%	\$0.32	23,088
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	CO2 Heat Pump Water Heater	CO2 Heat Pump Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Water Heater LE 55 Gal	2343	15	\$7,432.31	5%	100%	\$0.40	7,044
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip with Occupancy Sensor	Standard Power Strip - Home Office Only	Existing	Per Power Strip - Home Office	67	5	\$15.42	50%	95%	\$0.04	2,407
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip with Occupancy Sensor	Standard Power Strip - Home Office Only	New	Per Power Strip - Home Office	67	5	\$15.42	50%	95%	\$0.04	860
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip with Occupancy Sensor	Standard Power Strip - Home Office Only	Existing	Per Power Strip - Home Office	67	5	\$15.42	50%	95%	\$0.04	7,741
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip with Occupancy Sensor	Standard Power Strip - Home Office Only	New	Per Power Strip - Home Office	67	5	\$15.42	50%	95%	\$0.04	2,765
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip with Occupancy Sensor	Standard Power Strip - Home Office Only	Existing	Per Power Strip - Home Office	67	5	\$15.42	50%	95%	\$0.04	22,788
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip with Occupancy Sensor	Standard Power Strip - Home Office Only	New	Per Power Strip - Home Office	67	5	\$15.42	50%	95%	\$0.04	8,141
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	Existing	Per Home	319	20	\$1,486.19	25%	95%	\$0.49	1,477
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	New	Per Home	345	20	\$1,486.19	25%	95%	\$0.45	623
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	Existing	Per Home	220	20	\$1,486.19	25%	95%	\$0.73	433
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	New	Per Home	222	20	\$1,486.19	25%	95%	\$0.72	144
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	Existing	Per Home	97	20	\$1,486.19	50%	95%	\$1.68	1,047
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	New	Per Home	305	20	\$1,486.19	50%	95%	\$0.51	1,175
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	New	Per Home	138	20	\$1,486.19	50%	95%	\$1.17	588
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	158	45	\$2,063.52	75%	1%	-\$0.33	14
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	176	45	\$2,063.52	75%	1%	-\$1.13	13
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	3317	45	\$2,063.52	75%	1%	\$0.03	726
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	2412	45	\$2,063.52	75%	1%	\$0.06	201
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	3454	45	\$2,063.52	75%	1%	\$0.03	33
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	232	45	\$2,042.27	85%	3%	-\$0.03	1,011
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured	R-0 (Zero Insulation - Single Family and Manufactured	Existing	Per Home	38	45	\$2,042.27	85%	3%	\$0.17	44



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						Homes Only)	Homes Only)									
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	3187	45	\$2,042.27	85%	3%	\$0.02	3,222
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	2298	45	\$2,042.27	85%	3%	\$0.05	2,900
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	2210	45	\$2,042.27	85%	3%	\$0.05	3,311
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-8.0 (Existing Insulation - Manufactured Homes Only)	Existing	Per Home	83	45	\$2,063.52	75%	35%	\$1.03	250
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-8.0 (Existing Insulation - Manufactured Homes Only)	Existing	Per Home	92	45	\$2,063.52	75%	35%	\$0.19	235
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-8.0 (Existing Insulation - Manufactured Homes Only)	Existing	Per Home	1550	45	\$2,063.52	75%	35%	\$0.10	11,003
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-8.0 (Existing Insulation - Manufactured Homes Only)	Existing	Per Home	1075	45	\$2,063.52	75%	35%	\$0.17	2,654
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-8.0 (Existing Insulation - Manufactured Homes Only)	Existing	Per Home	1590	45	\$2,063.52	75%	35%	\$0.09	497
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-11.9 (Existing Insulation - Single Family Only)	Existing	Per Home	77	45	\$2,042.27	85%	12%	\$1.81	592
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-11.9 (Existing Insulation - Single Family Only)	Existing	Per Home	16	45	\$2,042.27	85%	12%	\$9.21	43
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-11.9 (Existing Insulation - Single Family Only)	Existing	Per Home	970	45	\$2,042.27	85%	12%	\$0.17	3,049
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-11.9 (Existing Insulation - Single Family Only)	Existing	Per Home	663	45	\$2,042.27	85%	12%	\$0.27	2,614
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-11.9 (Existing Insulation - Single Family Only)	Existing	Per Home	685	45	\$2,042.27	85%	12%	\$0.26	3,238
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	8	45	\$1,261.04	40%	95%	\$14.68	21
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	4	45	\$1,261.04	60%	95%	\$29.60	5
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	9	45	\$1,261.04	40%	95%	\$12.62	22
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	5	45	\$1,261.04	60%	95%	\$22.14	6

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	136	45	\$1,261.04	40%	95%	\$0.89	1,002
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	151	45	\$1,261.04	60%	95%	\$0.80	519
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	91	45	\$1,261.04	40%	95%	\$1.35	285
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	97	45	\$1,261.04	60%	95%	\$1.27	122
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	138	45	\$1,261.04	40%	95%	\$0.87	54
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	158	45	\$1,261.04	60%	80%	\$0.76	21
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	9	45	\$1,248.05	75%	96%	\$12.83	458
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	6	45	\$1,073.90	90%	95%	\$17.35	80
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	2	45	\$1,248.05	75%	96%	\$58.91	33
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	1	45	\$1,073.90	90%	95%	\$82.92	7
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	109	45	\$1,248.05	75%	96%	\$1.10	1,811
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	96	45	\$1,073.90	90%	95%	\$1.07	436
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	73	45	\$1,248.05	75%	96%	\$1.66	1,848
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	64	45	\$1,073.90	90%	95%	\$1.63	415
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	78	45	\$1,248.05	75%	96%	\$1.56	2,237
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	72	45	\$1,073.90	90%	95%	\$1.45	564
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-0 (Zero Insulation - Multi Family Only)	Existing	Per Home	32	25	\$300.29	50%	2%	-\$0.01	5
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-0 (Zero Insulation - Multi Family Only)	Existing	Per Home	13	25	\$300.29	50%	2%	\$0.68	2
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-0 (Zero Insulation - Multi Family Only)	Existing	Per Home	468	25	\$300.29	50%	2%	\$0.04	71

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-0 (Zero Insulation - Multi Family Only)	Existing	Per Home	297	25	\$300.29	50%	2%	\$0.08	5
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-0 (Zero Insulation - Multi Family Only)	Existing	Per Home	224	25	\$300.29	50%	2%	\$0.11	324
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-9.6 (Existing Insulation - Multi Family Only)	Existing	Per Home	7	25	\$300.29	50%	2%	\$3.53	1
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-9.6 (Existing Insulation - Multi Family Only)	Existing	Per Home	3	25	\$300.29	50%	2%	\$9.24	0
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-9.6 (Existing Insulation - Multi Family Only)	Existing	Per Home	100	25	\$300.29	50%	2%	\$0.30	11
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-9.6 (Existing Insulation - Multi Family Only)	Existing	Per Home	62	25	\$300.29	50%	2%	\$0.50	1
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-9.6 (Existing Insulation - Multi Family Only)	Existing	Per Home	48	25	\$300.29	50%	2%	\$0.66	60
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	Existing	Per Home	1	25	\$37.55	15%	89%	\$2.88	1
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	New	Per Home	0	25	\$37.55	25%	80%	\$3.65	0
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	Existing	Per Home	0	25	\$37.55	15%	89%	\$7.68	1
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	New	Per Home	0	25	\$37.55	25%	80%	\$10.77	0
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	Existing	Per Home	15	25	\$37.55	15%	89%	\$0.24	25
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	New	Per Home	41	25	\$37.55	25%	80%	\$0.07	36
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	Existing	Per Home	9	25	\$37.55	15%	89%	\$0.41	2
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	New	Per Home	32	25	\$37.55	25%	80%	\$0.10	3
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	Existing	Per Home	7	25	\$37.55	15%	89%	\$0.54	115
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	New	Per Home	19	25	\$37.55	25%	80%	\$0.19	159
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	1679	45	\$1,662.28	25%	21%	\$0.07	2,518
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	1029	45	\$1,662.28	25%	21%	\$0.14	534
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	2142	45	\$1,662.28	25%	21%	\$0.05	142
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	1131	25	\$272.14	25%	11%	-\$0.01	448
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	1025	25	\$272.14	25%	11%	\$0.00	50
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	515	25	\$272.14	25%	11%	\$0.03	1,937
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	1726	45	\$1,645.16	25%	19%	\$0.06	2,633
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	1016	45	\$1,645.16	25%	19%	\$0.13	1,931

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	1424	45	\$1,645.16	25%	19%	\$0.08	3,314
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Floor Insulation	R-30 (WA Code)	R-6.7 (Existing Insulation: Manufactured Homes)	Existing	Per Home	883	45	\$1,662.28	25%	50%	\$0.16	2,781
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Floor Insulation	R-30 (WA Code)	R-6.7 (Existing Insulation: Manufactured Homes)	Existing	Per Home	532	45	\$1,662.28	25%	50%	\$0.29	588
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Floor Insulation	R-30 (WA Code)	R-6.7 (Existing Insulation: Manufactured Homes)	Existing	Per Home	1128	45	\$1,662.28	25%	50%	\$0.12	157
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Floor Insulation	R-30 (WA Code)	R-5.2 (Existing Insulation: Multifamily)	Existing	Per Home	615	25	\$272.14	25%	17%	\$0.02	393
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Floor Insulation	R-30 (WA Code)	R-5.2 (Existing Insulation: Multifamily)	Existing	Per Home	546	25	\$272.14	25%	17%	\$0.03	43
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Floor Insulation	R-30 (WA Code)	R-5.2 (Existing Insulation: Multifamily)	Existing	Per Home	280	25	\$272.14	25%	17%	\$0.08	1,699
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Floor Insulation	R-30 (WA Code)	R-8.5 (Existing Insulation: Single Family)	Existing	Per Home	728	45	\$1,645.16	25%	24%	\$0.19	1,329
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Floor Insulation	R-30 (WA Code)	R-8.5 (Existing Insulation: Single Family)	Existing	Per Home	416	45	\$1,645.16	25%	24%	\$0.36	957
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Floor Insulation	R-30 (WA Code)	R-8.5 (Existing Insulation: Single Family)	Existing	Per Home	608	45	\$1,645.16	25%	24%	\$0.23	1,702
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	127	45	\$272.27	25%	85%	\$0.18	673
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	132	45	\$272.27	75%	85%	\$0.18	600
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	76	45	\$272.27	25%	85%	\$0.33	140
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	84	45	\$272.27	75%	85%	\$0.30	144
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	163	45	\$272.27	25%	85%	\$0.14	38
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	155	45	\$272.27	75%	85%	\$0.15	32
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	62	25	\$44.57	25%	69%	\$0.05	150
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	70	25	\$44.57	75%	85%	\$0.04	199
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	54	25	\$44.57	25%	69%	\$0.06	14
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	58	25	\$44.57	75%	85%	\$0.06	22
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	28	25	\$44.57	25%	69%	\$0.14	639
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	32	25	\$44.57	75%	85%	\$0.12	869
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	112	45	\$269.47	25%	85%	\$0.20	701
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	111	45	\$231.87	75%	85%	\$0.17	556
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	63	45	\$269.47	25%	85%	\$0.39	502
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	70	45	\$231.87	75%	85%	\$0.29	414

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	95	45	\$269.47	25%	85%	\$0.24	899
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	85	45	\$231.87	75%	85%	\$0.23	669
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	16	45	\$378.74	10%	90%	\$2.28	11
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	12	45	\$378.74	10%	90%	\$3.16	3
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	19	45	\$378.74	10%	90%	\$1.99	12
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	16	45	\$378.74	10%	90%	\$2.36	4
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	27	45	\$378.74	10%	90%	\$1.38	19
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	13	45	\$378.74	10%	90%	\$2.79	3
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	19	25	\$62.01	50%	90%	\$0.36	120
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	14	25	\$62.01	75%	90%	\$0.49	57
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	7	25	\$62.01	50%	90%	\$1.00	53
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	7	25	\$62.01	75%	90%	\$1.03	27
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	24	25	\$62.01	50%	90%	\$0.24	15
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	15	25	\$62.01	75%	90%	\$0.42	4
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	36	45	\$374.84	50%	90%	\$1.01	1,151
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	27	45	\$322.54	75%	90%	\$1.18	381
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	3	45	\$374.84	50%	90%	\$10.89	39
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	2	45	\$322.54	75%	90%	\$16.16	11
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	Existing	Per Home	34	45	\$374.84	50%	90%	\$1.05	542
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Radiant Barrier (Ceiling)	Install Radiant Barrier	No Radiant Barrier	New	Per Home	17	45	\$322.54	75%	90%	\$1.80	102
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	108	45	\$1,891.56	75%	75%	\$1.71	358
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	61	45	\$1,891.56	75%	75%	\$3.06	87
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	111	45	\$1,891.56	75%	75%	\$1.67	20
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	151	45	\$1,610.86	75%	75%	\$1.02	535
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	88	45	\$1,610.86	75%	75%	\$1.78	431
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	117	45	\$1,610.86	75%	75%	\$1.33	723
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	47	45	\$3,273.26	60%	15%	\$2.25	34

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	51	45	\$3,273.26	60%	15%	-\$0.39	45
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	2836	45	\$3,273.26	60%	15%	\$0.08	7,024
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	2024	45	\$3,273.26	60%	15%	\$0.14	1,739
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	3001	45	\$3,273.26	60%	15%	\$0.08	327
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	1277	25	\$856.28	60%	9%	\$0.04	975
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	1229	25	\$856.28	60%	9%	\$0.05	103
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	582	25	\$856.28	60%	9%	\$0.13	4,224
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	75	45	\$4,005.46	60%	23%	\$2.01	744
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	12	45	\$4,005.46	60%	23%	\$13.49	43
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	3670	45	\$4,005.46	60%	23%	\$0.07	16,498
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	2523	45	\$4,005.46	60%	23%	\$0.12	14,167
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	2528	45	\$4,005.46	60%	23%	\$0.12	17,274
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	388	45	\$1,504.31	75%	95%	\$0.36	1,937
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	261	45	\$1,504.31	75%	95%	\$0.55	491
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	417	45	\$1,504.31	75%	95%	\$0.33	96
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	0	45	\$1,840.81	75%	95%	\$5,269.62	0
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	458	45	\$1,840.81	75%	95%	\$0.36	2,429
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	313	45	\$1,840.81	75%	95%	\$0.55	2,033
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	334	45	\$1,840.81	75%	95%	\$0.51	2,766

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Wall Insulation 2x6	R-21 (Above WA Code - Multi Family Only)	R-13 + R-6 sheathing (WA Code - Multi Family Only)	New	Per Home	0	25	-\$280.58	75%	95%	-\$84.58	1
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Wall Insulation 2x6	R-21 (Above WA Code - Multi Family Only)	R-13 + R-6 sheathing (WA Code - Multi Family Only)	New	Per Home	0	25	-\$280.58	75%	95%	-\$174.19	1
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	170	10	\$731.89	85%	35%	\$0.67	647
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	120	10	\$731.89	85%	35%	\$0.94	169
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	189	10	\$731.89	85%	35%	\$0.60	559
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	158	10	\$731.89	85%	35%	\$0.72	166
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	38	10	\$731.89	85%	35%	\$2.96	138
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	16	10	\$731.89	85%	35%	\$7.30	21
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	155	10	\$302.69	85%	50%	\$0.30	941
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	111	10	\$302.69	85%	50%	\$0.42	290
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	57	10	\$302.69	85%	50%	\$0.82	415
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	54	10	\$302.69	85%	50%	\$0.87	141
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	21	10	\$302.69	85%	50%	\$2.23	16
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	10	10	\$302.69	85%	50%	\$4.50	3
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	335	10	\$810.86	85%	50%	\$0.37	22,207
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	242	10	\$810.86	85%	50%	\$0.52	5,267
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	43	10	\$810.86	85%	50%	\$2.97	724
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	28	10	\$810.86	85%	50%	\$4.56	168
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	Existing	Per Home	78	10	\$810.86	85%	50%	\$1.58	1,694
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Ceiling Fan	Ceiling Fan (no lighting kit)	No Ceiling Fan	New	Per Home	44	10	\$810.86	85%	50%	\$2.82	326
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	Existing	Per Clothes Washer	85	14	\$175.48	100%	99%	\$0.16	31
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	New	Per Clothes Washer	85	14	\$175.48	100%	100%	\$0.16	10
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	Existing	Per Clothes Washer	85	14	\$175.48	100%	99%	\$0.16	364
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	New	Per Clothes Washer	85	14	\$175.48	100%	100%	\$0.16	62

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	Existing	Per Clothes Washer	85	14	\$142.41	15%	100%	\$0.13	7
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	New	Per Clothes Washer	85	14	\$142.41	15%	100%	\$0.13	2
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	Existing	Per Clothes Washer	85	14	\$142.41	15%	100%	\$0.13	144
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	New	Per Clothes Washer	85	14	\$142.41	15%	100%	\$0.13	31
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	Existing	Per Clothes Washer	85	14	\$190.04	100%	100%	\$0.18	240
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	New	Per Clothes Washer	85	14	\$190.04	100%	100%	\$0.18	74
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	Existing	Per Clothes Washer	85	14	\$190.04	100%	100%	\$0.18	1,692
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Electric DHW & Dryer)	New	Per Clothes Washer	85	14	\$190.04	100%	100%	\$0.18	283
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	Existing	Per Clothes Washer	79	14	\$157.85	100%	100%	\$0.16	131
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	New	Per Clothes Washer	79	14	\$157.85	100%	100%	\$0.16	93
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	Existing	Per Clothes Washer	79	14	\$157.85	100%	100%	\$0.16	1,846
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	New	Per Clothes Washer	79	14	\$157.85	100%	100%	\$0.16	600
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	Existing	Per Clothes Washer	79	14	\$128.10	15%	100%	\$0.13	32
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	New	Per Clothes Washer	79	14	\$128.10	15%	100%	\$0.13	23



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	Existing	Per Clothes Washer	79	14	\$128.10	15%	100%	\$0.13	869
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	New	Per Clothes Washer	79	14	\$128.10	15%	100%	\$0.13	299
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	Existing	Per Clothes Washer	79	14	\$170.95	100%	100%	\$0.18	1,014
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	New	Per Clothes Washer	79	14	\$170.95	100%	100%	\$0.18	719
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	Existing	Per Clothes Washer	79	14	\$170.95	100%	100%	\$0.18	8,488
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Electric DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Electric DHW & Dryer)	New	Per Clothes Washer	79	14	\$170.95	100%	100%	\$0.18	2,759
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	62	15	\$25.80	95%	46%	\$0.04	51
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	62	15	\$25.80	95%	46%	\$0.04	723
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	62	15	\$25.80	95%	66%	\$0.04	130
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	62	15	\$25.80	95%	66%	\$0.04	3,477
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	62	15	\$25.80	95%	72%	\$0.04	532
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	62	15	\$25.80	95%	72%	\$0.04	4,418
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	26
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	15
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	359
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	111
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	47
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	24
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	1,268
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	407
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	Existing	Per Tank Wrap per Gallon	2	10	\$63.10	95%	20%	\$6.37	167

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
									DWH Storage							
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	93
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	1,381
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-10)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	2	10	\$63.10	95%	20%	\$6.37	447
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	4	15	\$2.25	100%	50%	-\$0.01	3
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	4	15	\$2.25	100%	50%	-\$0.01	2
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	4	15	\$2.25	100%	50%	-\$0.01	43
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	4	15	\$2.25	100%	50%	-\$0.01	14
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	4	15	\$3.18	100%	50%	-\$0.01	9
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	4	15	\$3.18	100%	50%	-\$0.01	6
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	4	15	\$3.18	100%	50%	-\$0.01	233
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	4	15	\$3.18	100%	50%	-\$0.01	79
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	4	15	\$2.95	100%	50%	-\$0.01	28
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	4	15	\$2.95	100%	50%	-\$0.01	20
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	4	15	\$2.95	100%	50%	-\$0.01	237
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	4	15	\$2.95	100%	50%	-\$0.01	76
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	54	20	\$29.11	15%	95%	\$0.03	218
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	52	20	\$29.11	15%	95%	\$0.03	80

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	36	20	\$29.11	15%	95%	\$0.07	51
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	34	20	\$29.11	15%	95%	\$0.07	21
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	57	20	\$29.11	15%	95%	\$0.03	10
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	56	20	\$29.11	15%	95%	\$0.03	4
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	138	20	\$71.91	15%	100%	\$0.02	679
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	128	20	\$71.91	15%	95%	\$0.02	184
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	90	20	\$71.91	15%	100%	\$0.05	551
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	86	20	\$71.91	15%	95%	\$0.06	151
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	97	20	\$71.91	15%	100%	\$0.04	720
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	93	20	\$71.91	15%	95%	\$0.05	192
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	107	20	\$49.32	85%	75%	\$0.02	1,986
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	72	20	\$49.32	85%	75%	\$0.05	450

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	112	20	\$49.32	85%	75%	\$0.02	90
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	271	20	\$121.82	85%	77%	\$0.01	6,121
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	174	20	\$121.82	85%	77%	\$0.04	4,769
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	188	20	\$121.82	85%	77%	\$0.03	6,299
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	332	20	\$78.43	4%	100%	-\$0.01	183
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	299	20	\$78.43	4%	80%	\$0.00	47
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	304	20	\$78.43	4%	100%	\$0.00	21
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	269	20	\$78.43	4%	80%	\$0.00	6
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	151	20	\$78.43	4%	100%	\$0.03	791
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	138	20	\$78.43	4%	80%	\$0.03	207
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	222	20	\$49.32	21%	18%	-\$0.01	103
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	200	20	\$49.32	21%	60%	\$0.00	111
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	202	20	\$49.32	21%	18%	\$0.00	12
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	180	20	\$49.32	21%	60%	\$0.00	13
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	101	20	\$49.32	21%	18%	\$0.02	449

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						Code - Multi-Family Only)	Family Only)									
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	92	20	\$49.32	21%	60%	\$0.03	483
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	47	5	\$30.22	13%	50%	\$0.13	59
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	27	5	\$30.22	13%	50%	\$0.26	14
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	69	5	\$30.22	13%	50%	\$0.08	5
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	56	5	\$30.22	13%	18%	\$0.10	14
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	53	5	\$30.22	13%	18%	\$0.11	2
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	26	5	\$30.22	13%	18%	\$0.26	60
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	288	5	\$74.65	13%	77%	\$0.03	852
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	219	5	\$74.65	13%	77%	\$0.05	823
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	210	5	\$74.65	13%	77%	\$0.05	947
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	308	40	\$463.82	29%	90%	\$0.14	152
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	308	40	\$463.82	59%	90%	\$0.14	127
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	308	40	\$463.82	29%	90%	\$0.14	2,134
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	308	40	\$463.82	59%	90%	\$0.14	864
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	366	40	\$463.82	59%	90%	\$0.11	258
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	366	40	\$463.82	59%	90%	\$0.11	3,824
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	375	40	\$463.82	29%	90%	\$0.11	1,230
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	375	40	\$463.82	59%	90%	\$0.11	1,042
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	375	40	\$463.82	29%	90%	\$0.11	10,210
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	375	40	\$463.82	59%	90%	\$0.11	4,348
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	21	30	\$278.00	75%	10%	-\$0.83	7
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	599	30	\$278.00	75%	10%	\$0.02	497
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	646	30	\$278.00	75%	10%	\$0.02	215
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	30	30	\$278.00	75%	10%	-\$0.25	114

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	492	30	\$278.00	75%	10%	\$0.02	467
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	486	30	\$278.00	75%	10%	\$0.02	627
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insulation	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	31	20	\$375.00	50%	60%	-\$1.12	113
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insulation	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	981	20	\$375.00	50%	60%	\$0.01	8,905
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insulation	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	906	20	\$375.00	50%	60%	\$0.02	3,146
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insulation	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	36	20	\$538.25	50%	60%	-\$0.03	1,619
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insulation	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	985	20	\$538.25	50%	60%	\$0.02	9,981
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insulation	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	873	20	\$538.25	50%	60%	\$0.03	11,242
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	Existing	Per Home	35	30	\$128.42	5%	95%	-\$1.92	20
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	New	Per Home	17	30	\$128.42	15%	95%	-\$1.36	11
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	Existing	Per Home	1038	30	\$128.42	5%	95%	-\$0.02	1,554
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	New	Per Home	466	30	\$128.42	15%	95%	\$0.00	747
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	Existing	Per Home	942	30	\$128.42	5%	95%	-\$0.01	544
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	New	Per Home	498	30	\$128.42	15%	95%	\$0.00	322
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	Existing	Per Home	43	30	\$128.42	5%	95%	\$0.13	301
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	New	Per Home	22	30	\$128.42	15%	95%	-\$0.28	160
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	Existing	Per Home	224	30	\$128.42	5%	95%	\$0.02	366
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not	Standard ducts with 13 SEER HVAC	New	Per Home	267	30	\$128.42	15%	95%	\$0.01	485

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						require mastic or drawbands (5 per unit)										
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	Standard ducts with 13 SEER HVAC	New	Per Home	261	30	\$128.42	15%	95%	\$0.02	645
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	71	9	\$0.00	100%	95%	-\$0.26	232
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	31	9	\$0.00	100%	95%	-\$0.35	42
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	70	9	\$0.00	100%	95%	-\$0.27	3,229
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	65	9	\$0.00	100%	95%	-\$0.17	563
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	93	9	\$0.00	100%	95%	-\$0.21	465
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	41	9	\$0.00	100%	95%	-\$0.35	110
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	92	9	\$0.00	100%	95%	-\$0.21	12,491
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	85	9	\$0.00	100%	95%	-\$0.17	2,998
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	61	9	\$0.00	100%	95%	-\$0.36	1,971
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	27	9	\$0.00	100%	95%	-\$0.35	257
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	61	9	\$0.00	100%	95%	-\$0.36	16,320
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	56	9	\$0.00	100%	95%	-\$0.17	2,054
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	34	9	\$12.35	100%	15%	-\$0.20	17
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	33	9	\$12.35	100%	15%	-\$0.21	240
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	44	9	\$9.49	100%	15%	-\$0.17	35
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	43	9	\$9.49	100%	15%	-\$0.17	928
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	29	9	\$17.11	100%	15%	-\$0.26	146
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	28	9	\$17.11	100%	15%	-\$0.26	1,213
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	94	9	\$0.00	100%	65%	-\$0.23	122
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	41	9	\$0.00	100%	65%	-\$0.51	38
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator -	93	9	\$0.00	100%	65%	-\$0.24	1,706

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
									Kitchen							
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	86	9	\$0.00	100%	65%	-\$0.25	507
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	94	9	\$0.00	100%	65%	-\$0.23	246
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	41	9	\$0.00	100%	65%	-\$0.51	76
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	93	9	\$0.00	100%	65%	-\$0.24	6,598
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	86	9	\$0.00	100%	65%	-\$0.25	2,076
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	112	9	\$0.00	100%	65%	-\$0.23	1,041
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	49	9	\$0.00	100%	65%	-\$0.51	321
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	110	9	\$0.00	100%	65%	-\$0.24	8,621
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	103	9	\$0.00	100%	65%	-\$0.25	2,563
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	107	9	\$7.24	100%	15%	-\$0.22	32
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	106	9	\$7.24	100%	15%	-\$0.23	450
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	107	9	\$7.24	100%	15%	-\$0.22	65
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	106	9	\$7.24	100%	15%	-\$0.23	1,740
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	128	9	\$7.24	100%	15%	-\$0.23	275
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	126	9	\$7.24	100%	15%	-\$0.23	2,274
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Conversion Room AC to Ductless Heat Pump	Ductless Heat Pump	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	Existing	Per Home	123	15	\$3,470.41	18%	95%	\$3.58	146
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Conversion Room AC to Ductless Heat Pump	Ductless Heat Pump	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	New	Per Home	104	15	\$3,470.41	18%	95%	\$4.23	2
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Conversion Room AC to Ductless Heat Pump	Ductless Heat Pump	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	Existing	Per Home	45	15	\$3,470.41	10%	95%	\$9.79	53
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Conversion Room AC to Ductless Heat Pump	Ductless Heat Pump	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	New	Per Home	43	15	\$3,470.41	10%	95%	\$10.14	1
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Conversion Room AC to Ductless Heat Pump	Ductless Heat Pump	Federal Standard 2014 Room AC - CEER 10.9 (8,000-13,999 Btuh)	Existing	Per Home	22	15	\$3,470.41	8%	95%	\$19.67	38
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Conversion Room AC to Ductless Heat Pump	Ductless Heat Pump	Federal Standard 2014 Room AC - CEER 10.9 (8,000-	New	Per Home	13	15	\$3,470.41	8%	95%	\$33.87	0



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
							13,999 Btuh)									
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Conversion Baseboard Heating to Ductless Heat Pump	Ductless Heat Pump	Baseboard Heating HSPF = 1	Existing	Per Home	2675	15	\$3,470.41	15%	62%	\$0.14	263
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Conversion Baseboard Heating to Ductless Heat Pump	Ductless Heat Pump	Baseboard Heating HSPF = 1	New	Per Home	1365	15	\$3,470.41	15%	95%	\$0.29	3
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Conversion Baseboard Heating to Ductless Heat Pump	Ductless Heat Pump	Baseboard Heating HSPF = 1	Existing	Per Home	708	15	\$3,470.41	66%	85%	\$0.59	47,418
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Conversion Baseboard Heating to Ductless Heat Pump	Ductless Heat Pump	Baseboard Heating HSPF = 1	New	Per Home	430	15	\$3,470.41	66%	95%	\$0.99	532
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Conversion Baseboard Heating to Ductless Heat Pump	Ductless Heat Pump	Baseboard Heating HSPF = 1	Existing	Per Home	2141	15	\$3,470.41	27%	91%	\$0.17	23,448
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Conversion Baseboard Heating to Ductless Heat Pump	Ductless Heat Pump	Baseboard Heating HSPF = 1	New	Per Home	1020	15	\$3,470.41	27%	95%	\$0.39	163
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Conversion Electric Furnace to Air Source Heat Pump	Air Source Heat Pump SEER 14 HSPF 8.2	Electric Furnace HSPF = 1	Existing	Per Home	2511	20	\$5,726.35	65%	93%	\$0.23	37,222
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Conversion Electric Furnace to Air Source Heat Pump	Air Source Heat Pump SEER 14 HSPF 8.2	Electric Furnace HSPF = 1	New	Per Home	962	20	\$5,726.35	65%	95%	\$0.64	203
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Conversion Electric Furnace to Air Source Heat Pump	Air Source Heat Pump SEER 14 HSPF 8.2	Electric Furnace HSPF = 1	Existing	Per Home	2365	20	\$5,726.35	35%	94%	\$0.24	9,744
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Conversion Electric Furnace to Air Source Heat Pump	Air Source Heat Pump SEER 14 HSPF 8.2	Electric Furnace HSPF = 1	New	Per Home	1314	20	\$5,726.35	35%	95%	\$0.45	89
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Conversion Electric Furnace to Air Source Heat Pump	Air Source Heat Pump SEER 14 HSPF 8.2	Electric Furnace HSPF = 1	Existing	Per Home	3013	20	\$5,726.35	74%	95%	\$0.17	62,733
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Conversion Electric Furnace to Air Source Heat Pump	Air Source Heat Pump SEER 14 HSPF 8.2	Electric Furnace HSPF = 1	New	Per Home	1092	20	\$5,726.35	74%	95%	\$0.55	285
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- Without PTCS Commissioning, Controls, & Sizing	Existing	Per PTCS	27	20	\$430.31	95%	95%	\$1.80	205
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- Without PTCS Commissioning, Controls, & Sizing	Existing	Per PTCS	666	20	\$430.31	95%	92%	\$0.05	6,335
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- Without PTCS Commissioning, Controls, & Sizing	Existing	Per PTCS	32	20	\$430.31	95%	95%	\$1.51	376
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- Without PTCS Commissioning, Controls, & Sizing	Existing	Per PTCS	1012	20	\$430.31	95%	94%	\$0.02	1,133
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- Without PTCS Commissioning, Controls, & Sizing	Existing	Per PTCS	94	20	\$430.31	95%	95%	\$0.50	11,638
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- Without PTCS Commissioning, Controls, & Sizing	Existing	Per PTCS	1152	20	\$430.31	95%	95%	\$0.01	53,876
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- Without PTCS Commissioning, Controls, & Sizing	New	Per PTCS	20	20	\$430.31	95%	95%	\$2.43	60
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- Without PTCS Commissioning, Controls, & Sizing	New	Per PTCS	334	20	\$430.31	95%	95%	\$0.12	1,095
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Central AC- PTCS Commissioning,	Central AC- PTCS Commissioning,	Central AC- Without PTCS Commissioning,	New	Per PTCS	28	20	\$430.31	95%	95%	\$1.73	109

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
					Controls, & Sizing	Controls, & Sizing	Controls, & Sizing									
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- Without PTCS Commissioning, Controls, & Sizing	New	Per PTCS	522	20	\$430.31	95%	95%	\$0.06	267
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- PTCS Commissioning, Controls, & Sizing	Central AC- Without PTCS Commissioning, Controls, & Sizing	New	Per PTCS	63	20	\$430.31	95%	95%	\$0.75	2,497
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- PTCS Commissioning, Controls, & Sizing	Heat Pump- Without PTCS Commissioning, Controls, & Sizing	New	Per PTCS	596	20	\$430.31	95%	95%	\$0.05	9,162
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	Existing	Per A/C Tune-up	11	5	\$150.00	95%	75%	\$3.49	55
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	New	Per A/C Tune-up	11	5	\$150.00	95%	75%	\$3.49	22
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	Existing	Per Heat Pump Tune-up	183	5	\$150.00	95%	75%	\$0.18	1,104
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	New	Per Heat Pump Tune-up	183	5	\$150.00	95%	75%	\$0.18	367
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	Existing	Per A/C Tune-up	11	5	\$150.00	95%	75%	\$3.49	74
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	New	Per A/C Tune-up	11	5	\$150.00	95%	75%	\$3.49	29
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	Existing	Per Heat Pump Tune-up	183	5	\$150.00	95%	75%	\$0.18	176
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	New	Per Heat Pump Tune-up	183	5	\$150.00	95%	75%	\$0.18	55
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	Existing	Per A/C Tune-up	11	5	\$150.00	95%	75%	\$3.49	501
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	New	Per A/C Tune-up	11	5	\$150.00	95%	75%	\$3.49	147
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	Existing	Per Heat Pump Tune-up	183	5	\$150.00	95%	75%	\$0.17	4,825
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Check Mel O&M Tune-up	Tune-up/Maintenance	No Tune-up Maintenance	New	Per Heat Pump Tune-up	183	5	\$150.00	95%	75%	\$0.17	1,308
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	132	11	\$2,176.20	64%	49%	\$2.45	798
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	72	11	\$2,176.20	64%	49%	\$4.54	184
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	195	11	\$2,176.20	64%	49%	\$1.65	63
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	649	11	\$1,499.40	64%	50%	\$0.31	2,204
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	635	11	\$1,499.40	64%	50%	\$0.33	283
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	303	11	\$1,499.40	64%	50%	\$0.71	9,544
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	345	11	\$3,400.20	64%	50%	\$1.44	2,495
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	262	11	\$3,400.20	64%	50%	\$1.92	2,885

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
					Door test											
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	252	11	\$3,400.20	64%	50%	\$1.99	3,172
Electric	Energy Efficiency	Manufactured	Lighting Interior Standard	Retrofit	Occupancy Sensors	Wall-Switch Occupancy Sensors	No Occupancy Sensor	Existing	Per Occupancy Sensor	8	8	\$319.00	20%	95%	\$6.87	611
Electric	Energy Efficiency	Manufactured	Lighting Interior Standard	Retrofit	Occupancy Sensors	Wall-Switch Occupancy Sensors	No Occupancy Sensor	New	Per Occupancy Sensor	8	8	\$319.00	20%	95%	\$6.87	218
Electric	Energy Efficiency	Multifamily	Lighting Interior Standard	Retrofit	Occupancy Sensors	Wall-Switch Occupancy Sensors	No Occupancy Sensor	Existing	Per Occupancy Sensor	8	8	\$239.25	20%	95%	\$5.45	1,453
Electric	Energy Efficiency	Multifamily	Lighting Interior Standard	Retrofit	Occupancy Sensors	Wall-Switch Occupancy Sensors	No Occupancy Sensor	New	Per Occupancy Sensor	8	8	\$239.25	20%	95%	\$5.45	518
Electric	Energy Efficiency	Single Family	Lighting Interior Standard	Retrofit	Occupancy Sensors	Wall-Switch Occupancy Sensors	No Occupancy Sensor	Existing	Per Occupancy Sensor	9	8	\$398.75	20%	95%	\$7.69	8,020
Electric	Energy Efficiency	Single Family	Lighting Interior Standard	Retrofit	Occupancy Sensors	Wall-Switch Occupancy Sensors	No Occupancy Sensor	New	Per Occupancy Sensor	9	8	\$398.75	20%	95%	\$7.69	2,864
Electric	Energy Efficiency	Manufactured	Lighting Exterior	Retrofit	Daylighting Controls (Photocell) & Occupancy Sensors - Outdoors	Install Photocell & Occupancy Sensor	No Lighting Controls	Existing	Per Photocell & Occupancy Sensor	32	8	\$416.63	5%	95%	\$2.31	34
Electric	Energy Efficiency	Manufactured	Lighting Exterior	Retrofit	Daylighting Controls (Photocell) & Occupancy Sensors - Outdoors	Install Photocell & Occupancy Sensor	No Lighting Controls	New	Per Photocell & Occupancy Sensor	32	8	\$416.63	5%	95%	\$2.31	12
Electric	Energy Efficiency	Multifamily	Lighting Exterior	Retrofit	Daylighting Controls (Photocell) & Occupancy Sensors - Outdoors	Install Photocell & Occupancy Sensor	No Lighting Controls	Existing	Per Photocell & Occupancy Sensor	32	8	\$138.88	5%	96%	\$0.76	97
Electric	Energy Efficiency	Multifamily	Lighting Exterior	Retrofit	Daylighting Controls (Photocell) & Occupancy Sensors - Outdoors	Install Photocell & Occupancy Sensor	No Lighting Controls	New	Per Photocell & Occupancy Sensor	32	8	\$138.88	5%	95%	\$0.76	35
Electric	Energy Efficiency	Single Family	Lighting Exterior	Retrofit	Daylighting Controls (Photocell) & Occupancy Sensors - Outdoors	Install Photocell & Occupancy Sensor	No Lighting Controls	Existing	Per Photocell & Occupancy Sensor	33	8	\$555.50	5%	45%	\$3.06	724
Electric	Energy Efficiency	Single Family	Lighting Exterior	Retrofit	Daylighting Controls (Photocell) & Occupancy Sensors - Outdoors	Install Photocell & Occupancy Sensor	No Lighting Controls	New	Per Photocell & Occupancy Sensor	33	8	\$555.50	5%	95%	\$3.06	562
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	11	45	\$795.60	75%	75%	\$7.16	18
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	15	45	\$795.60	75%	75%	\$5.28	22
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	12	45	\$795.60	75%	75%	\$6.27	41
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	80	45	\$795.60	75%	75%	\$0.96	122
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	14	45	\$795.60	75%	75%	\$5.43	2
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	12	25	\$795.60	40%	75%	\$6.95	14
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	6	25	\$795.60	40%	75%	\$14.46	8
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	10	25	\$795.60	40%	75%	\$8.96	10

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	88	25	\$795.60	40%	75%	\$0.97	11
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	5	25	\$795.60	40%	75%	\$19.52	43
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	25	45	\$795.60	75%	75%	\$3.12	275
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	2	45	\$795.60	75%	75%	\$42.77	8
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	16	45	\$795.60	75%	75%	\$4.99	54
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	105	45	\$795.60	75%	75%	\$0.72	573
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	11	45	\$795.60	75%	75%	\$7.36	63
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Construction - ICF	Concrete Framing	Standard Wood Framing	New	Per Home	0	25	\$2,131.41	25%	95%	\$943.81	0
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Construction - ICF	Concrete Framing	Standard Wood Framing	New	Per Home	1	45	\$4,833.41	25%	95%	\$710.00	3
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	7	45	\$920.43	25%	95%	-\$0.15	7
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	9	45	\$920.43	25%	95%	-\$6.04	8
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	1202	45	\$920.43	25%	95%	\$0.05	3,119
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	800	45	\$920.43	25%	95%	\$0.09	828
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	1285	45	\$920.43	25%	95%	\$0.04	137
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	297	25	\$634.18	25%	95%	\$0.20	330
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	260	25	\$634.18	25%	95%	\$0.24	35
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	137	25	\$634.18	25%	95%	\$0.48	1,450
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	1	45	\$1,438.14	25%	95%	\$113.53	1
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	820	45	\$1,438.14	25%	95%	\$0.14	1,757
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	560	45	\$1,438.14	25%	95%	\$0.22	1,476
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	599	45	\$1,438.14	25%	95%	\$0.20	2,010
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	483	45	\$604.50	85%	95%	\$0.10	3,956
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	301	45	\$604.50	85%	95%	\$0.18	824
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	484	45	\$604.50	85%	95%	\$0.10	164
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	343	25	\$416.50	85%	95%	\$0.10	1,422
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	282	25	\$416.50	85%	95%	\$0.13	139

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	155	25	\$416.50	85%	95%	\$0.26	6,122
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	1234	45	\$944.50	85%	95%	\$0.04	12,522
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	859	45	\$944.50	85%	95%	\$0.07	10,284
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	911	45	\$944.50	85%	95%	\$0.06	13,496
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	1-Watt Standby Power	1W or less standby power use for small appliances	Standard plug load appliance	Existing	Per Device - 1W Standby Power	1	45	\$150.00	50%	50%	\$10.62	105
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	1-Watt Standby Power	1W or less standby power use for small appliances	Standard plug load appliance	New	Per Device - 1W Standby Power	1	45	\$150.00	50%	50%	\$10.62	37
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	1-Watt Standby Power	1W or less standby power use for small appliances	Standard plug load appliance	Existing	Per Device - 1W Standby Power	1	45	\$150.00	50%	50%	\$10.62	299
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	1-Watt Standby Power	1W or less standby power use for small appliances	Standard plug load appliance	New	Per Device - 1W Standby Power	1	45	\$150.00	50%	50%	\$10.62	107
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	1-Watt Standby Power	1W or less standby power use for small appliances	Standard plug load appliance	Existing	Per Device - 1W Standby Power	1	45	\$240.00	50%	50%	\$17.00	1,592
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	1-Watt Standby Power	1W or less standby power use for small appliances	Standard plug load appliance	New	Per Device - 1W Standby Power	1	45	\$240.00	50%	50%	\$17.00	569
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	Battery Chargers, ENERGY STAR	ENERGY STAR Battery Chargers	Standard Battery Chargers	Existing	Per Charger	0	5	\$10.00	50%	80%	\$10.26	63
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	Battery Chargers, ENERGY STAR	ENERGY STAR Battery Chargers	Standard Battery Chargers	New	Per Charger	0	5	\$10.00	50%	80%	\$10.26	23
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	Battery Chargers, ENERGY STAR	ENERGY STAR Battery Chargers	Standard Battery Chargers	Existing	Per Charger	0	5	\$10.00	50%	80%	\$10.26	204
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	Battery Chargers, ENERGY STAR	ENERGY STAR Battery Chargers	Standard Battery Chargers	New	Per Charger	0	5	\$10.00	50%	80%	\$10.26	73
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	Battery Chargers, ENERGY STAR	ENERGY STAR Battery Chargers	Standard Battery Chargers	Existing	Per Charger	0	5	\$10.00	50%	80%	\$10.26	600
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	Battery Chargers, ENERGY STAR	ENERGY STAR Battery Chargers	Standard Battery Chargers	New	Per Charger	0	5	\$10.00	50%	80%	\$10.26	214
Electric	Energy Efficiency	Single Family	Pool Pump	Retrofit	Pool Pump Timers	Pool Pump Timers	Pool Pump No Timers	Existing	Per Pool Pump Timer	1208	10	\$61.91	95%	50%	-\$0.01	3,012
Electric	Energy Efficiency	Manufactured	Refrigerator	Retrofit	Refrigerator/Freezer - Removal of Secondary	Proper Disposal of Refrigerator/Freezer	Existing Non-Efficient Refrigerator/Freezer	Existing	Per Refrigerator Removed	424	7	\$125.00	24%	76%	\$0.05	5,344
Electric	Energy Efficiency	Single Family	Refrigerator	Retrofit	Refrigerator/Freezer - Removal of Secondary	Proper Disposal of Refrigerator/Freezer	Existing Non-Efficient Refrigerator/Freezer	Existing	Per Refrigerator Removed	424	7	\$125.00	46%	98%	\$0.05	134,070
Electric	Energy Efficiency	Manufactured	Freezer	Retrofit	Stand-Alone Freezer - Removal	Proper Disposal of Freezer	Existing Non-Efficient Freezer	Existing	Per Freezer Removed	478	5	\$125.00	54%	91%	\$0.05	6,720
Electric	Energy Efficiency	Single Family	Freezer	Retrofit	Stand-Alone Freezer - Removal	Proper Disposal of Freezer	Existing Non-Efficient Freezer	Existing	Per Freezer Removed	478	5	\$125.00	56%	99%	\$0.05	49,950
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$48,722.00	20%	95%	\$1,635.78	23
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$48,722.00	20%	95%	\$1,635.78	22
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$48,722.00	20%	95%	\$1,635.76	20
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$7,976.59	50%	95%	\$267.89	12
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$7,976.59	50%	95%	\$267.89	15

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$7,976.59	50%	95%	\$267.87	1
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$41,491.86	50%	95%	\$1,393.06	331
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$41,491.86	50%	95%	\$1,393.06	142
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Green Roof	Ecoroof	Standard Roof	New	Per 100 Sqft of Roof Area	3	40	\$41,491.86	50%	95%	\$1,393.03	148
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	Existing	Per Showerhead	153	10	\$0.00	95%	31%	-\$0.11	134
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	New	Per Showerhead	153	10	\$0.00	95%	85%	-\$0.11	1,681
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	Existing	Per Showerhead	165	10	\$0.00	95%	79%	-\$0.11	770
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	New	Per Showerhead	165	10	\$0.00	95%	85%	-\$0.11	7,649
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	Existing	Per Showerhead	169	10	\$0.00	95%	79%	-\$0.13	3,267
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	New	Per Showerhead	169	10	\$0.00	95%	85%	-\$0.13	9,462
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	16	20	\$437.96	25%	95%	\$2.97	29
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	12	20	\$437.96	25%	95%	\$4.12	5
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	19	20	\$437.96	25%	95%	\$2.61	32
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	16	20	\$437.96	25%	95%	\$3.09	7
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	17	20	\$437.96	25%	95%	\$2.94	31
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	12	20	\$437.96	25%	95%	\$4.10	4
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	19	20	\$437.96	3%	95%	\$2.63	4
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	14	20	\$437.96	3%	95%	\$3.59	1
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	7	20	\$437.96	3%	95%	\$7.16	2
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	7	20	\$437.96	3%	95%	\$7.41	0
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	18	20	\$437.96	3%	95%	\$2.68	1
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	14	20	\$437.96	3%	95%	\$3.56	0
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	36	20	\$437.96	25%	95%	\$1.34	584
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	27	20	\$437.96	25%	95%	\$1.81	82
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	3	20	\$437.96	25%	95%	\$14.37	20
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	2	20	\$437.96	25%	95%	\$24.75	2
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	Existing	Per Home	36	20	\$437.96	25%	95%	\$1.31	302
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Solar Attic Fan	Solar electric attic ventilation	Standard passive ventilation	New	Per Home	27	20	\$437.96	25%	95%	\$1.78	35

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Programmable Thermostat	Programmable Thermostat	Manual Thermostat	Existing	Per Home	19	10	\$29.00	95%	64%	-\$2.11	146
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Programmable Thermostat	Programmable Thermostat	Manual Thermostat	Existing	Per Home	562	10	\$29.00	95%	52%	-\$0.02	8,682
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Programmable Thermostat	Programmable Thermostat	Manual Thermostat	Existing	Per Home	433	10	\$29.00	95%	64%	-\$0.01	3,128
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Programmable Thermostat	Programmable Thermostat	Manual Thermostat	Existing	Per Home	41	10	\$29.00	95%	14%	-\$1.13	788
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Programmable Thermostat	Programmable Thermostat	Manual Thermostat	Existing	Per Home	737	10	\$29.00	95%	14%	-\$0.03	3,452
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Programmable Thermostat	Programmable Thermostat	Manual Thermostat	Existing	Per Home	555	10	\$29.00	95%	5%	-\$0.03	1,344
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	26	10	\$167.45	25%	94%	\$0.40	72
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	19	10	\$167.45	100%	95%	\$0.97	64
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	785	10	\$167.45	25%	94%	\$0.00	5,304
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	382	10	\$167.45	100%	95%	\$0.04	3,328
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	605	10	\$167.45	25%	94%	\$0.02	1,395
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	301	10	\$167.45	100%	95%	\$0.06	1,141
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	58	10	\$167.45	25%	86%	-\$0.64	1,789
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	43	10	\$167.45	100%	95%	-\$0.12	2,053
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	1030	10	\$167.45	25%	86%	-\$0.01	7,839
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	481	10	\$167.45	100%	95%	\$0.02	4,592
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	775	10	\$167.45	25%	95%	\$0.00	8,132
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	392	10	\$167.45	100%	95%	\$0.03	4,581
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Whole House Fan	Whole House Fan	No Whole House Fan	Existing	Per Whole House Fan	225	20	\$1,153.72	50%	95%	\$0.57	9,729
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Whole House Fan	Whole House Fan	No Whole House Fan	New	Per Whole House Fan	167	20	\$1,153.72	50%	95%	\$0.77	2,004
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Whole House Fan	Whole House Fan	No Whole House Fan	Existing	Per Whole House Fan	225	20	\$1,153.72	50%	95%	\$0.54	4,269
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Whole House Fan	Whole House Fan	No Whole House Fan	New	Per Whole House Fan	167	20	\$1,153.72	50%	95%	\$0.74	741
Electric	Energy Efficiency	Manufactured	Cool Central	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	15	45	\$184.53	75%	50%	\$1.23	26
Electric	Energy Efficiency	Manufactured	Cool Room	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	20	45	\$184.53	75%	50%	\$0.92	26
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	28	45	\$184.53	75%	50%	\$0.63	29
Electric	Energy Efficiency	Multifamily	Cool Central	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	32	25	\$184.53	75%	50%	\$0.64	70
Electric	Energy Efficiency	Multifamily	Cool Room	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	15	25	\$184.53	75%	50%	\$1.32	34
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	79	25	\$184.53	75%	50%	\$0.23	14
Electric	Energy Efficiency	Single Family	Cool Central	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	63	45	\$184.53	75%	70%	\$0.28	1,521

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Single Family	Cool Room	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	5	45	\$184.53	75%	50%	\$3.97	25
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Window Overhang	Overhangs over windows for shading	No window overhangs	New	Per Window Overhang	81	45	\$184.53	75%	50%	\$0.19	339
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	564	30	\$2,344.53	50%	85%	\$0.41	4,821
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	414	30	\$2,344.53	70%	75%	\$0.57	1,391
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	363	30	\$2,344.53	50%	85%	\$0.66	1,312
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	270	30	\$2,344.53	70%	75%	\$0.89	328
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	583	30	\$2,344.53	50%	85%	\$0.40	262
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	443	30	\$2,344.53	70%	75%	\$0.53	67
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	880	30	\$1,568.34	50%	85%	\$0.16	5,141
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	597	30	\$1,783.85	70%	75%	\$0.28	1,233
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	769	30	\$1,568.34	50%	85%	\$0.19	488
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	535	30	\$1,783.85	70%	75%	\$0.32	134
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	401	30	\$1,568.34	50%	85%	\$0.38	21,903
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	275	30	\$1,783.85	70%	75%	\$0.65	5,392
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	807	30	\$3,488.68	50%	75%	\$0.42	7,153
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	557	30	\$3,319.81	70%	75%	\$0.59	1,978
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	503	30	\$3,488.68	50%	75%	\$0.70	6,790
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	372	30	\$3,319.81	70%	75%	\$0.91	1,576
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	574	30	\$3,488.68	50%	75%	\$0.60	8,856
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	405	30	\$3,319.81	70%	75%	\$0.83	2,129
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	2718	30	\$3,020.50	50%	12%	\$0.09	4,230
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	1833	30	\$3,020.50	50%	12%	\$0.15	997
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	2856	30	\$3,020.50	50%	12%	\$0.08	196
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	3005	30	\$2,020.52	50%	14%	\$0.04	3,080
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	2881	30	\$2,020.52	50%	14%	\$0.04	323
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	1369	30	\$2,020.52	50%	14%	\$0.12	13,323
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	3786	30	\$4,494.53	50%	15%	\$0.09	8,629
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	2488	30	\$4,494.53	50%	15%	\$0.16	7,109
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	2631	30	\$4,494.53	50%	15%	\$0.14	9,098



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Manufactured	Heat Central	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	3392	30	\$8,978.91	50%	3%	\$0.25	1,401
Electric	Energy Efficiency	Manufactured	Heat Pump	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	2316	30	\$8,978.91	50%	3%	\$0.39	337
Electric	Energy Efficiency	Manufactured	Heat Room	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	3577	30	\$8,978.91	50%	3%	\$0.24	63
Electric	Energy Efficiency	Multifamily	Heat Central	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	3459	30	\$6,006.33	50%	4%	\$0.15	989
Electric	Energy Efficiency	Multifamily	Heat Pump	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	3394	30	\$6,006.33	50%	4%	\$0.16	115
Electric	Energy Efficiency	Multifamily	Heat Room	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	1576	30	\$6,006.33	50%	4%	\$0.37	4,606
Electric	Energy Efficiency	Single Family	Heat Central	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	4686	30	\$13,360.70	50%	5%	\$0.26	2,700
Electric	Energy Efficiency	Single Family	Heat Pump	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	3128	30	\$13,360.70	50%	5%	\$0.42	2,824
Electric	Energy Efficiency	Single Family	Heat Room	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	3240	30	\$13,360.70	50%	5%	\$0.40	3,252
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing - Home Entertainment Only	Standard Power Strip - Home Entertainment Only	Existing	Per Power Strip - Home Entertainment	43	5	\$15.42	50%	85%	\$0.07	1,383
Electric	Energy Efficiency	Manufactured	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing - Home Entertainment Only	Standard Power Strip - Home Entertainment Only	New	Per Power Strip - Home Entertainment	43	5	\$15.42	50%	85%	\$0.07	494
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing - Home Entertainment Only	Standard Power Strip - Home Entertainment Only	Existing	Per Power Strip - Home Entertainment	43	5	\$15.42	50%	85%	\$0.07	4,448
Electric	Energy Efficiency	Multifamily	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing - Home Entertainment Only	Standard Power Strip - Home Entertainment Only	New	Per Power Strip - Home Entertainment	43	5	\$15.42	50%	85%	\$0.07	1,589
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing - Home Entertainment Only	Standard Power Strip - Home Entertainment Only	Existing	Per Power Strip - Home Entertainment	43	5	\$15.42	50%	85%	\$0.07	13,094
Electric	Energy Efficiency	Single Family	Plug Load Other	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing - Home Entertainment Only	Standard Power Strip - Home Entertainment Only	New	Per Power Strip - Home Entertainment	43	5	\$15.42	50%	85%	\$0.07	4,678
Electric	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	Existing	Per Showerhead	153	10	\$0.00	95%	25%	-\$0.11	1,570
Electric	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	Existing	Per Showerhead	165	10	\$0.00	95%	80%	-\$0.11	21,197
Electric	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	Existing	Per Showerhead	169	10	\$0.00	95%	79%	-\$0.13	27,352
Electric	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	New	Per Showerhead	153	10	\$0.00	95%	85%	-\$0.11	260
Electric	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	New	Per Showerhead	165	10	\$0.00	95%	85%	-\$0.11	584
Electric	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	New	Per Showerhead	169	10	\$0.00	95%	85%	-\$0.13	2,467
Electric	Fuel Conversion	SFam	Clothes Drying	Existing	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	Existing	Per installation	619	30	\$196.88			\$0.04	3,795
Electric	Fuel Conversion	SFam	Cooking	Existing	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Federal Standard 2012 Cooking Oven	Existing	Per installation	106	30	\$455.62			\$0.40	648
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Existing	Gas Fireplace	NA: manually populated- see cell	Electric Baseboard	Existing	Per installation	7211	30	\$2,067.66			\$0.05	298

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						comments associated with savings and cost cells										
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Existing	Wall Heater 84% eff	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$184.87			\$0.01	473
Electric	Fuel Conversion	SFam	Water Heating	Existing	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$759.46			\$0.04	113
Electric	Fuel Conversion	SFam	Water Heating	Existing	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$309.70			\$0.03	108,977
Electric	Fuel Conversion	SFam	Zone Heating: Baseboard	Existing	Wall Heater 84% eff	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$184.87			\$0.01	4,342
Electric	Fuel Conversion	SFam	Space Heating: Baseboard, Water Heating	Existing	Boiler	Integrated Space Heating and Water Heating	Electric Water Heater, 55 gal.	Existing	Per installation	11099	30	\$1,142.32			\$0.07	4,591
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Existing	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	13
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Existing	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	13
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Existing	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	13
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Existing	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	13
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Existing	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	12,656
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Existing	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	527
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Existing	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	527
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Existing	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	527
Electric	Fuel Conversion	SFam	Clothes Drying	Main	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	Existing	Per installation	619	30	\$196.88			\$0.06	685
Electric	Fuel Conversion	SFam	Cooking	Main	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Federal Standard 2012 Cooking Oven	Existing	Per installation	106	30	\$455.62			\$0.42	117
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Main	Gas Fireplace	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$2,067.66			\$0.05	915
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Main	Wall Heater 84% eff	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$184.87			\$0.01	915
Electric	Fuel Conversion	SFam	Space Heating: Ducted	Main	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	Existing	Per installation	10839	30	\$113.61			\$0.03	39,654
Electric	Fuel Conversion	SFam	Space Heating: Ducted, Water Heating	Main	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	Existing	Per installation	14728	30	\$397.90			\$0.04	5,388
Electric	Fuel Conversion	SFam	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$759.46			\$0.04	74

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Fuel Conversion	SFam	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$309.70			\$0.04	71,726
Electric	Fuel Conversion	SFam	Space Heating: Baseboard, Water Heating	Main	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	Existing	Per installation	11099	30	\$1,142.32			\$0.07	14,080
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	6
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	6
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	6
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	6
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	3,405
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	142
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	142
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	142
Electric	Fuel Conversion	SFam	Clothes Drying	Main Ext - Short (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	Existing	Per installation	619	30	\$196.88			\$0.06	256
Electric	Fuel Conversion	SFam	Cooking	Main Ext - Short (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Federal Standard 2012 Cooking Oven	Existing	Per installation	106	30	\$455.62			\$0.42	44
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Main Ext - Short (ft)	Gas Fireplace	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$2,067.66			\$0.05	341
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Main Ext - Short (ft)	Wall Heater 84% eff	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$184.87			\$0.01	341
Electric	Fuel Conversion	SFam	Space Heating: Ducted	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	Existing	Per installation	10839	30	\$113.61			\$0.03	14,792
Electric	Fuel Conversion	SFam	Space Heating: Ducted, Water Heating	Main Ext - Short (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	Existing	Per installation	14728	30	\$397.90			\$0.04	2,010
Electric	Fuel Conversion	SFam	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$759.46			\$0.04	44
Electric	Fuel Conversion	SFam	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$309.70			\$0.04	26,756
Electric	Fuel Conversion	SFam	Space Heating: Baseboard, Water Heating	Main Ext - Short (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	Existing	Per installation	11099	30	\$1,142.32			\$0.07	5,252
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	2
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	2
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	2
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						Tankless										
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	1,294
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	54
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	54
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	54
Electric	Fuel Conversion	SFam	Clothes Drying	Main Ext - Medium (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	Existing	Per installation	619	30	\$196.88			\$0.06	511
Electric	Fuel Conversion	SFam	Cooking	Main Ext - Medium (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Federal Standard 2012 Cooking Oven	Existing	Per installation	106	30	\$455.62			\$0.42	87
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Main Ext - Medium (ft)	Gas Fireplace	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$2,067.66			\$0.05	682
Electric	Fuel Conversion	SFam	Space Heating: Baseboard	Main Ext - Medium (ft)	Wall Heater 84% eff	NA: manually populated- see cell comments associated with savings and cost cells	Electric Baseboard	Existing	Per installation	7211	30	\$184.87			\$0.01	682
Electric	Fuel Conversion	SFam	Space Heating: Ducted	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	Existing	Per installation	10839	30	\$113.61			\$0.03	29,585
Electric	Fuel Conversion	SFam	Space Heating: Ducted, Water Heating	Main Ext - Medium (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	Existing	Per installation	14728	30	\$397.90			\$0.04	4,020
Electric	Fuel Conversion	SFam	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$759.46			\$0.04	88
Electric	Fuel Conversion	SFam	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	3889	30	\$309.70			\$0.04	53,513
Electric	Fuel Conversion	SFam	Space Heating: Baseboard, Water Heating	Main Ext - Medium (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	Existing	Per installation	11099	30	\$1,142.32			\$0.07	10,504
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	4
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	4
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	4
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$759.46			\$0.06	4
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	2,588
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	108
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	108
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	Existing	Per installation	2778	30	\$309.70			\$0.05	108

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Fuel Conversion	MFam Mid Rise: Renter	Clothes Drying	Main	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	2
Electric	Fuel Conversion	MFam Mid Rise: Renter	Cooking	Main	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	0
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Baseboard	Main	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.14	7
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Baseboard, Water Heating	Main	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	20
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Ducted	Main	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.03	5
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Ducted, Water Heating	Main	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	1
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	19
Electric	Fuel Conversion	MFam Mid Rise: Owner	Clothes Drying	Main	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	1
Electric	Fuel Conversion	MFam Mid Rise: Owner	Cooking	Main	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Baseboard	Main	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.13	5
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Baseboard, Water Heating	Main	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	15
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Ducted	Main	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.02	4
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Ducted, Water Heating	Main	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	1
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	14
Electric	Fuel Conversion	MFam Low Rise: Renter	Clothes Drying	Main	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	42
Electric	Fuel Conversion	MFam Low Rise: Renter	Cooking	Main	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	3
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Baseboard	Main	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.13	163
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Baseboard, Water Heating	Main	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	474
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Ducted	Main	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.02	116
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Ducted, Water Heating	Main	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	22
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	1
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	448
Electric	Fuel Conversion	MFam Low Rise: Owner	Clothes Drying	Main	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	32
Electric	Fuel Conversion	MFam Low Rise: Owner	Cooking	Main	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Baseboard	Main	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.14	123
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Baseboard, Water Heating	Main	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	358
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Ducted	Main	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.03	88
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Ducted, Water Heating	Main	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	17
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	1
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	338
Electric	Fuel Conversion	MFam Mid Rise: Renter	Clothes Drying	Main Ext - Short (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	1
Electric	Fuel Conversion	MFam Mid Rise: Renter	Cooking	Main Ext - Short (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	0
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Baseboard	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.14	3
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Baseboard, Water Heating	Main Ext - Short (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	7
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Ducted	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.03	2
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Ducted, Water Heating	Main Ext - Short (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	0
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	7
Electric	Fuel Conversion	MFam Mid Rise: Owner	Clothes Drying	Main Ext - Short (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Cooking	Main Ext - Short (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Baseboard	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.13	2
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Baseboard, Water Heating	Main Ext - Short (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	6
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Ducted	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.02	1
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Ducted, Water Heating	Main Ext - Short (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	5
Electric	Fuel Conversion	MFam Low Rise: Renter	Clothes Drying	Main Ext - Short (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	16
Electric	Fuel Conversion	MFam Low Rise: Renter	Cooking	Main Ext - Short (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	1
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Baseboard	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.13	61
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Baseboard, Water Heating	Main Ext - Short (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	177

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Ducted	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.02	43
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Ducted, Water Heating	Main Ext - Short (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	8
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	167
Electric	Fuel Conversion	MFam Low Rise: Owner	Clothes Drying	Main Ext - Short (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	12
Electric	Fuel Conversion	MFam Low Rise: Owner	Cooking	Main Ext - Short (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	1
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Baseboard	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.14	46
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Baseboard, Water Heating	Main Ext - Short (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	134
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Ducted	Main Ext - Short (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.03	33
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Ducted, Water Heating	Main Ext - Short (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	6
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	126
Electric	Fuel Conversion	MFam Mid Rise: Renter	Clothes Drying	Main Ext - Medium (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	1
Electric	Fuel Conversion	MFam Mid Rise: Renter	Cooking	Main Ext - Medium (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	0
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Baseboard	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.14	5
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Baseboard, Water Heating	Main Ext - Medium (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	15
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Ducted	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.03	4
Electric	Fuel Conversion	MFam Mid Rise: Renter	Space Heating: Ducted, Water Heating	Main Ext - Medium (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	1
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Mid Rise: Renter	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	14
Electric	Fuel Conversion	MFam Mid Rise: Owner	Clothes Drying	Main Ext - Medium (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	1
Electric	Fuel Conversion	MFam Mid Rise: Owner	Cooking	Main Ext - Medium (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Baseboard	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.13	4
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Baseboard, Water Heating	Main Ext - Medium (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	11

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Ducted	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.02	3
Electric	Fuel Conversion	MFam Mid Rise: Owner	Space Heating: Ducted, Water Heating	Main Ext - Medium (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	1
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Mid Rise: Owner	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	11
Electric	Fuel Conversion	MFam Low Rise: Renter	Clothes Drying	Main Ext - Medium (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	31
Electric	Fuel Conversion	MFam Low Rise: Renter	Cooking	Main Ext - Medium (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	2
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Baseboard	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.13	121
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Baseboard, Water Heating	Main Ext - Medium (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	354
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Ducted	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.02	87
Electric	Fuel Conversion	MFam Low Rise: Renter	Space Heating: Ducted, Water Heating	Main Ext - Medium (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	16
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	1
Electric	Fuel Conversion	MFam Low Rise: Renter	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	334
Electric	Fuel Conversion	MFam Low Rise: Owner	Clothes Drying	Main Ext - Medium (ft)	Dryer - Advanced Efficiency	Dryer - Advanced Efficiency	Dryer - Federal Standard 2015	New	Per installation	619	30	\$196.88			\$0.06	24
Electric	Fuel Conversion	MFam Low Rise: Owner	Cooking	Main Ext - Medium (ft)	Cooking Oven - High Efficiency	Cooking Oven - High Efficiency	Cooking Oven - Standard	New	Per installation	106	30	\$455.62			\$0.42	1
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Baseboard	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Baseboard Heating	New	Per installation	1450	30	\$315.74			\$0.14	92
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Baseboard, Water Heating	Main Ext - Medium (ft)	Boiler	Integrated Space Heating and Water Heating	Baseboard Heating, Electric Water Heater, 55 gal.	New	Per installation	4227	30	\$1,142.32			\$0.12	267
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Ducted	Main Ext - Medium (ft)	95% Furnace	Furnace - Advanced Efficiency	Electric Furnace	New	Per installation	3152	30	-\$396.64			\$0.03	66
Electric	Fuel Conversion	MFam Low Rise: Owner	Space Heating: Ducted, Water Heating	Main Ext - Medium (ft)	Integrated Space & Water Heat	Integrated Space Heating and Water Heating	Electric Furnace, Electric Water Heater, 55 gal.	New	Per installation	5930	30	\$397.90			\$0.07	12
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$759.46			\$0.06	0
Electric	Fuel Conversion	MFam Low Rise: Owner	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 55 gal.	New	Per installation	2778	30	\$309.70			\$0.05	252



Table 2 – Commercial Electric Measure Detail

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost \$/kWh	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.28	100%	99%	\$0.30	2,300
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.22	100%	99%	\$0.44	591
Electric	Energy Efficiency	Dry Goods Retail	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	28
Electric	Energy Efficiency	Dry Goods Retail	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	12
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.75	100%	99%	\$0.33	861
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	1	30	\$31.41	25%	100%	\$4.50	621
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.59	100%	98%	\$0.51	213
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$25.12	25%	100%	\$6.79	203
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	1	20	\$2.50	100%	100%	\$0.38	50,489
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	1	15	\$0.12	95%	85%	\$0.03	9,636
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	1	20	\$0.14	50%	100%	-\$0.01	26,928
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	2	13	\$0.26	100%	100%	\$0.01	40,206
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	1	4	\$0.02	50%	65%	-\$0.02	4,225
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	1	12	\$0.12	50%	98%	-\$0.01	25,380
Electric	Energy Efficiency	Dry Goods Retail	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	217
Electric	Energy Efficiency	Dry Goods Retail	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	110
Electric	Energy Efficiency	Dry Goods Retail	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.00	100%	72%	-\$0.02	1,212
Electric	Energy Efficiency	Dry Goods Retail	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.00	100%	72%	-\$0.02	405

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.02	100%	100%	\$0.73	65
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$0.38	50%	100%	\$6.16	486
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.02	100%	100%	\$0.72	23
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$0.38	50%	100%	\$6.04	193
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	10	\$0.30	100%	100%	\$0.30	2,196
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	20	\$0.95	50%	100%	\$1.87	3,104
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	10	\$0.29	100%	100%	\$0.30	797
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	20	\$0.94	50%	100%	\$1.89	1,233
Electric	Energy Efficiency	Grocery	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.19	100%	99%	\$0.22	448
Electric	Energy Efficiency	Grocery	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.15	100%	99%	\$0.19	187
Electric	Energy Efficiency	Grocery	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	16
Electric	Energy Efficiency	Grocery	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	7
Electric	Energy Efficiency	Grocery	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.50	100%	99%	\$0.11	346
Electric	Energy Efficiency	Grocery	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	1	30	\$20.95	25%	100%	\$2.22	185
Electric	Energy Efficiency	Grocery	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.40	100%	98%	\$0.33	39
Electric	Energy Efficiency	Grocery	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	1	30	\$16.75	25%	100%	\$3.51	46
Electric	Energy Efficiency	Grocery	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	1	20	\$3.68	100%	100%	\$0.36	10,957
Electric	Energy Efficiency	Grocery	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	1	15	\$0.13	95%	85%	\$0.01	1,892

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	1	20	\$0.15	50%	100%	\$0.00	5,142
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	2	13	\$0.35	100%	100%	\$0.01	7,179
Electric	Energy Efficiency	Grocery	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	1	12	\$0.09	50%	98%	\$0.00	2,410
Electric	Energy Efficiency	Grocery	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.01	100%	100%	\$0.07	120
Electric	Energy Efficiency	Grocery	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.01	100%	100%	\$0.07	61
Electric	Energy Efficiency	Grocery	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.01	100%	72%	\$0.01	492
Electric	Energy Efficiency	Grocery	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.01	100%	72%	\$0.01	166
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.03	100%	100%	\$1.04	5
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$0.68	50%	100%	\$10.70	38
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.03	100%	100%	\$1.00	2
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$0.68	50%	100%	\$10.25	14
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	10	\$0.70	100%	100%	\$0.75	173
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	20	\$2.26	50%	100%	\$4.34	242
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	10	\$0.68	100%	100%	\$0.72	64
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	20	\$2.24	50%	100%	\$4.27	99
Electric	Energy Efficiency	Hospital	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	Existing	Per Sqft	0	20	\$0.33	100%	100%	\$0.08	1,448
Electric	Energy Efficiency	Hospital	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	New	Per Sqft	0	20	\$0.30	100%	99%	\$0.29	229
Electric	Energy Efficiency	Hospital	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.19	100%	99%	\$0.20	994
Electric	Energy Efficiency	Hospital	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.15	100%	99%	\$0.57	132
Electric	Energy Efficiency	Hospital	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	74
Electric	Energy Efficiency	Hospital	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	31
Electric	Energy Efficiency	Hospital	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr -	Premium Efficiency Air Source Heat Pump	Federal Standard 2010 Air Source Heat	Existing	Per Sqft	0	15	\$0.50	100%	99%	\$0.16	306

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
					Premium Efficiency	65 to 135 kBtu/hr - 12.0 EER, 3.8 COP	Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP									
Electric	Energy Efficiency	Hospital	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	1	30	\$20.95	25%	100%	\$2.56	189
Electric	Energy Efficiency	Hospital	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBtu/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBtu/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.40	100%	98%	\$0.27	62
Electric	Energy Efficiency	Hospital	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$16.75	25%	100%	\$5.12	41
Electric	Energy Efficiency	Hospital	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	1	20	\$2.87	100%	100%	\$0.45	13,808
Electric	Energy Efficiency	Hospital	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	15	\$0.03	95%	85%	\$0.19	462
Electric	Energy Efficiency	Hospital	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	20	\$0.03	50%	100%	\$0.02	1,264
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	1	13	\$0.26	100%	100%	\$0.02	11,149
Electric	Energy Efficiency	Hospital	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	1	4	\$0.02	50%	50%	-\$0.01	231
Electric	Energy Efficiency	Hospital	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	1	12	\$0.16	50%	98%	\$0.00	9,659
Electric	Energy Efficiency	Hospital	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.03	100%	100%	\$0.11	570
Electric	Energy Efficiency	Hospital	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.03	100%	100%	\$0.11	290
Electric	Energy Efficiency	Hospital	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	Existing	Per Sqft	0	9	\$0.07	100%	95%	\$0.77	357
Electric	Energy Efficiency	Hospital	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	New	Per Sqft	0	9	\$0.07	100%	95%	\$0.77	113
Electric	Energy Efficiency	Hospital	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.01	100%	72%	\$0.06	349
Electric	Energy Efficiency	Hospital	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.01	100%	72%	\$0.06	118
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.07	100%	100%	\$0.52	89
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$1.84	50%	100%	\$6.31	670
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.07	100%	100%	\$0.50	32
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$1.84	50%	100%	\$6.10	264

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
							1.973									
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	10	\$1.91	100%	100%	\$0.44	3,016
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	20	\$6.17	50%	100%	\$2.53	4,255
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	10	\$1.87	100%	100%	\$0.43	1,109
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	20	\$6.13	50%	100%	\$2.52	1,716
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	Existing	Per Sqft	0	20	\$0.33	100%	100%	\$0.10	741
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	New	Per Sqft	0	20	\$0.30	100%	99%	\$0.27	108
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.19	100%	99%	\$0.23	138
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.15	100%	99%	\$0.53	20
Electric	Energy Efficiency	Hotel Motel	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.01	100%	100%	\$0.19	65
Electric	Energy Efficiency	Hotel Motel	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.01	100%	100%	\$0.19	28
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.50	100%	99%	\$0.14	682
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	1	30	\$20.95	25%	100%	\$2.55	403
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.40	100%	98%	\$0.20	176
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$16.75	25%	100%	\$4.20	111
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	0	20	\$1.17	100%	100%	\$0.56	2,929
Electric	Energy Efficiency	Hotel Motel	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	15	\$0.01	95%	85%	\$0.27	120
Electric	Energy Efficiency	Hotel Motel	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	20	\$0.01	50%	100%	\$0.00	337
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package -	Standard Lighting Package	New	Per Sqft	1	13	\$0.27	100%	100%	\$0.02	4,718

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						25% LPD Reduction										
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	3	4	\$0.06	50%	59%	-\$0.01	2,025
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	4	12	\$0.49	50%	98%	\$0.00	16,029
Electric	Energy Efficiency	Hotel Motel	Photo Copiers	Equipment	Copiers - ENERGY STAR	ENERGY STAR Copier	Standard Copier	Existing	Per Sqft	0	6	\$0.00	100%	21%	-\$0.02	1
Electric	Energy Efficiency	Hotel Motel	Photo Copiers	Equipment	Copiers - ENERGY STAR	ENERGY STAR Copier	Standard Copier	New	Per Sqft	0	6	\$0.00	100%	21%	-\$0.02	0
Electric	Energy Efficiency	Hotel Motel	Printers	Equipment	Printer - ENERGY STAR	ENERGY STAR Printer	Standard Printer	Existing	Per Sqft	0	6	\$0.00	100%	1%	-\$0.02	0
Electric	Energy Efficiency	Hotel Motel	Printers	Equipment	Printer - ENERGY STAR	ENERGY STAR Printer	Standard Printer	New	Per Sqft	0	6	\$0.00	100%	1%	-\$0.02	0
Electric	Energy Efficiency	Hotel Motel	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.05	100%	100%	\$0.10	500
Electric	Energy Efficiency	Hotel Motel	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.05	100%	100%	\$0.10	254
Electric	Energy Efficiency	Hotel Motel	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.01	100%	72%	\$0.03	263
Electric	Energy Efficiency	Hotel Motel	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.01	100%	72%	\$0.03	89
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.08	100%	100%	\$0.48	38
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$1.71	50%	100%	\$4.67	279
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.08	100%	100%	\$0.46	12
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$1.71	50%	100%	\$4.46	98
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	10	\$1.77	100%	100%	\$0.32	1,188
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	20	\$5.69	50%	100%	\$1.89	1,581
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	10	\$1.73	100%	100%	\$0.31	437
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	20	\$5.65	50%	100%	\$1.85	678
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	1	20	\$2.81	100%	100%	\$0.31	22,948
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	15	\$0.03	95%	85%	\$0.06	1,023
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	20	\$0.04	50%	100%	-\$0.03	2,869
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	2	13	\$0.15	100%	100%	\$0.00	13,947

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	1	4	\$0.01	50%	62%	-\$0.03	970
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	1	12	\$0.06	50%	98%	-\$0.02	5,905
Electric	Energy Efficiency	Office	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	Existing	Per Sqft	0	20	\$0.33	100%	100%	\$0.07	10,766
Electric	Energy Efficiency	Office	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	New	Per Sqft	0	20	\$0.30	100%	99%	\$0.18	2,078
Electric	Energy Efficiency	Office	Cooling DX	Equipment	DX Package 65 to 135 kBtu/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBtu/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBtu/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.19	100%	99%	\$0.25	4,222
Electric	Energy Efficiency	Office	Cooling DX	Equipment	DX Package 65 to 135 kBtu/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBtu/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBtu/hr - 11.2 EER	New	Per Sqft	0	15	\$0.15	100%	99%	\$0.52	809
Electric	Energy Efficiency	Office	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	232
Electric	Energy Efficiency	Office	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	99
Electric	Energy Efficiency	Office	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBtu/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBtu/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.50	100%	99%	\$0.19	8,027
Electric	Energy Efficiency	Office	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	1	30	\$20.95	25%	100%	\$3.12	5,025
Electric	Energy Efficiency	Office	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBtu/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBtu/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.40	100%	98%	\$0.34	1,728
Electric	Energy Efficiency	Office	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$16.75	25%	100%	\$5.39	1,415
Electric	Energy Efficiency	Office	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	1	20	\$2.55	100%	100%	\$0.45	127,459
Electric	Energy Efficiency	Office	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	15	\$0.03	95%	85%	\$0.11	5,448
Electric	Energy Efficiency	Office	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	20	\$0.03	50%	100%	\$0.00	13,531
Electric	Energy Efficiency	Office	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	1	13	\$0.14	100%	100%	\$0.00	71,280
Electric	Energy Efficiency	Office	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	0	4	\$0.00	50%	62%	-\$0.02	4,028
Electric	Energy Efficiency	Office	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	0	12	\$0.05	50%	98%	\$0.00	27,895

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.01	100%	100%	\$0.08	1,783
Electric	Energy Efficiency	Office	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.01	100%	100%	\$0.08	907
Electric	Energy Efficiency	Office	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	Existing	Per Sqft	0	9	\$0.11	100%	95%	\$0.80	4,232
Electric	Energy Efficiency	Office	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	New	Per Sqft	0	9	\$0.11	100%	95%	\$0.80	1,355
Electric	Energy Efficiency	Office	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.00	100%	72%	-\$0.02	4,293
Electric	Energy Efficiency	Office	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.00	100%	72%	-\$0.02	1,437
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.01	100%	100%	\$0.21	383
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$0.35	50%	100%	\$3.47	2,884
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.01	100%	100%	\$0.20	142
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$0.35	50%	100%	\$3.32	1,168
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	10	\$0.36	100%	100%	\$0.26	12,958
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	20	\$1.16	50%	100%	\$1.42	18,384
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	10	\$0.35	100%	100%	\$0.25	4,829
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	20	\$1.15	50%	100%	\$1.39	7,475
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	Existing	Per Sqft	0	20	\$0.36	100%	100%	\$0.10	1,711
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	New	Per Sqft	0	20	\$0.33	100%	99%	\$0.19	384
Electric	Energy Efficiency	Other Commercial	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.20	100%	99%	\$0.22	2,386
Electric	Energy Efficiency	Other Commercial	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.16	100%	99%	\$0.36	545
Electric	Energy Efficiency	Other Commercial	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	142
Electric	Energy Efficiency	Other Commercial	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	60
Electric	Energy Efficiency	Other Commercial	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.56	100%	99%	\$0.23	1,416
Electric	Energy Efficiency	Other Commercial	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65	Advanced Efficiency Ground Source Heat Pump Replacing Air	Federal Standard 2010 Air Source Heat Pump 65 to 135	Existing	Per Sqft	1	30	\$23.56	25%	100%	\$3.31	956



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
					to 135 kBtu/hr - Advanced Efficiency	Source Heat Pump 65 to 135 kBtu/hr - 16.2 EER 4.0 COP	kBtu/hr - 11.0 EER, 3.3 COP									
Electric	Energy Efficiency	Other Commercial	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBtu/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBtu/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.45	100%	98%	\$0.38	272
Electric	Energy Efficiency	Other Commercial	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBtu/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBtu/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$18.85	25%	100%	\$5.48	243
Electric	Energy Efficiency	Other Commercial	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	0	20	\$1.72	100%	100%	\$0.56	42,120
Electric	Energy Efficiency	Other Commercial	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	1	15	\$0.15	95%	85%	\$0.04	16,070
Electric	Energy Efficiency	Other Commercial	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	1	20	\$0.18	50%	100%	\$0.01	45,108
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	1	13	\$0.11	100%	100%	\$0.00	35,395
Electric	Energy Efficiency	Other Commercial	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	0	4	\$0.01	50%	62%	-\$0.01	2,460
Electric	Energy Efficiency	Other Commercial	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	0	12	\$0.07	50%	98%	\$0.01	17,493
Electric	Energy Efficiency	Other Commercial	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.01	100%	100%	\$0.08	1,087
Electric	Energy Efficiency	Other Commercial	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.01	100%	100%	\$0.08	553
Electric	Energy Efficiency	Other Commercial	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	Existing	Per Sqft	0	9	\$0.57	100%	95%	\$0.76	15,173
Electric	Energy Efficiency	Other Commercial	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	New	Per Sqft	0	9	\$0.57	100%	95%	\$0.76	4,931
Electric	Energy Efficiency	Other Commercial	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.01	100%	72%	\$0.04	2,164
Electric	Energy Efficiency	Other Commercial	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.01	100%	72%	\$0.04	725
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.02	100%	100%	\$0.55	124
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$0.50	50%	100%	\$6.38	907
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.02	100%	100%	\$0.53	39
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$0.50	50%	100%	\$6.18	318
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	10	\$0.51	100%	100%	\$0.44	4,146
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water	Existing	Per Sqft	0	20	\$1.65	50%	100%	\$2.52	5,727

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
							Heater - EF 0.93									
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	10	\$0.50	100%	100%	\$0.44	1,486
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	20	\$1.64	50%	100%	\$2.51	2,301
Electric	Energy Efficiency	Restaurant	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.36	100%	99%	\$0.17	1,040
Electric	Energy Efficiency	Restaurant	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.29	100%	99%	\$0.35	162
Electric	Energy Efficiency	Restaurant	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	16
Electric	Energy Efficiency	Restaurant	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	7
Electric	Energy Efficiency	Restaurant	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$1.00	100%	99%	\$0.30	323
Electric	Energy Efficiency	Restaurant	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	1	30	\$41.89	25%	100%	\$3.25	266
Electric	Energy Efficiency	Restaurant	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.79	100%	98%	\$0.55	44
Electric	Energy Efficiency	Restaurant	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	1	30	\$33.50	25%	100%	\$6.13	51
Electric	Energy Efficiency	Restaurant	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	1	20	\$1.74	100%	100%	\$0.43	6,905
Electric	Energy Efficiency	Restaurant	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	15	\$0.04	95%	85%	\$0.25	558
Electric	Energy Efficiency	Restaurant	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	20	\$0.04	50%	100%	-\$0.07	1,530
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	2	13	\$0.34	100%	100%	\$0.02	7,250
Electric	Energy Efficiency	Restaurant	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	3	4	\$0.05	50%	56%	-\$0.02	1,134
Electric	Energy Efficiency	Restaurant	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	3	12	\$0.36	50%	98%	\$0.00	13,646
Electric	Energy Efficiency	Restaurant	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.01	100%	100%	\$0.08	121
Electric	Energy Efficiency	Restaurant	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.01	100%	100%	\$0.08	62

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.06	100%	100%	\$0.06	199
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	1	20	\$1.39	50%	100%	\$0.74	1,461
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.06	100%	100%	\$0.06	60
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	1	20	\$1.39	50%	100%	\$0.72	497
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	5	10	\$1.43	100%	100%	\$0.04	6,705
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	5	20	\$4.65	50%	100%	\$0.29	9,256
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	4	10	\$1.40	100%	100%	\$0.04	2,370
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	5	20	\$4.62	50%	100%	\$0.29	3,670
Electric	Energy Efficiency	School	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	Existing	Per Sqft	0	20	\$0.43	100%	100%	\$0.62	568
Electric	Energy Efficiency	School	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	New	Per Sqft	0	20	\$0.39	100%	99%	\$1.02	147
Electric	Energy Efficiency	School	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.24	100%	99%	\$1.46	146
Electric	Energy Efficiency	School	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.20	100%	99%	\$2.32	36
Electric	Energy Efficiency	School	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	54
Electric	Energy Efficiency	School	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	23
Electric	Energy Efficiency	School	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.66	100%	99%	\$0.23	1,840
Electric	Energy Efficiency	School	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	30	\$27.92	25%	100%	\$5.93	725
Electric	Energy Efficiency	School	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.54	100%	98%	\$0.44	328
Electric	Energy Efficiency	School	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$22.33	25%	100%	\$10.29	178

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	0	20	\$2.78	100%	100%	\$0.63	25,277
Electric	Energy Efficiency	School	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	15	\$0.08	95%	85%	\$0.04	2,596
Electric	Energy Efficiency	School	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	20	\$0.09	50%	100%	\$0.02	7,095
Electric	Energy Efficiency	School	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	1	13	\$0.15	100%	100%	\$0.01	13,624
Electric	Energy Efficiency	School	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	0	12	\$0.03	50%	98%	\$0.02	1,551
Electric	Energy Efficiency	School	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.01	100%	100%	\$0.09	418
Electric	Energy Efficiency	School	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.01	100%	100%	\$0.09	213
Electric	Energy Efficiency	School	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	Existing	Per Sqft	0	9	\$0.03	100%	95%	\$0.76	302
Electric	Energy Efficiency	School	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	New	Per Sqft	0	9	\$0.03	100%	95%	\$0.76	97
Electric	Energy Efficiency	School	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.01	100%	72%	\$0.04	918
Electric	Energy Efficiency	School	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.01	100%	72%	\$0.04	311
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.02	100%	100%	\$0.13	125
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$0.38	50%	100%	\$1.23	936
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.02	100%	100%	\$0.13	43
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$0.38	50%	100%	\$1.24	354
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	10	\$0.39	100%	100%	\$0.08	4,207
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	20	\$1.29	50%	100%	\$0.48	5,938
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	10	\$0.38	100%	100%	\$0.08	1,487
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	20	\$1.28	50%	100%	\$0.50	2,301
Electric	Energy Efficiency	University	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	Existing	Per Sqft	0	20	\$0.43	100%	100%	\$0.62	30
Electric	Energy Efficiency	University	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	New	Per Sqft	0	20	\$0.39	100%	99%	\$1.02	8
Electric	Energy Efficiency	University	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.24	100%	99%	\$1.46	12

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.20	100%	99%	\$2.32	3
Electric	Energy Efficiency	University	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	21
Electric	Energy Efficiency	University	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	9
Electric	Energy Efficiency	University	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.66	100%	99%	\$0.23	39
Electric	Energy Efficiency	University	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	30	\$27.92	25%	100%	\$5.93	16
Electric	Energy Efficiency	University	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.54	100%	98%	\$0.44	7
Electric	Energy Efficiency	University	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$22.33	25%	100%	\$10.29	4
Electric	Energy Efficiency	University	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	0	20	\$2.08	100%	100%	\$0.60	7,450
Electric	Energy Efficiency	University	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	15	\$0.05	95%	85%	\$0.04	658
Electric	Energy Efficiency	University	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	0	20	\$0.06	50%	100%	\$0.02	1,856
Electric	Energy Efficiency	University	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	Advanced Efficiency Lighting Package - 25% LPD Reduction	Standard Lighting Package	New	Per Sqft	1	13	\$0.25	100%	100%	\$0.03	5,351
Electric	Energy Efficiency	University	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	1	12	\$0.14	50%	98%	\$0.01	3,473
Electric	Energy Efficiency	University	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.01	100%	100%	\$0.09	159
Electric	Energy Efficiency	University	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.01	100%	100%	\$0.09	81
Electric	Energy Efficiency	University	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	Existing	Per Sqft	0	9	\$0.03	100%	95%	\$0.76	116
Electric	Energy Efficiency	University	Servers	Equipment	Server - High Efficiency	High Efficiency Server	Standard Server	New	Per Sqft	0	9	\$0.03	100%	95%	\$0.76	37
Electric	Energy Efficiency	University	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.01	100%	72%	\$0.04	348
Electric	Energy Efficiency	University	Vending Machines	Equipment	Vending Machines-High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.01	100%	72%	\$0.04	119
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.02	100%	100%	\$0.13	48
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump	Existing	Per Sqft	0	20	\$0.39	50%	100%	\$1.24	357

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
							Water Heater - EF 1.973									
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.02	100%	100%	\$0.13	16
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$0.39	50%	100%	\$1.24	135
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	10	\$0.39	100%	100%	\$0.08	1,603
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	1	20	\$1.29	50%	100%	\$0.49	2,262
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	10	\$0.38	100%	100%	\$0.08	566
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	1	20	\$1.28	50%	100%	\$0.51	877
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	Existing	Per Sqft	0	20	\$0.25	100%	100%	\$0.72	85
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Equipment	Chillers 150-300 tons (screw) - Advanced Efficiency	Advanced Efficiency Standard Chiller - 0.50 kW/Ton (Full Load)	Standard Chiller - 0.68 kW/Ton (Full Load)	New	Per Sqft	0	20	\$0.22	100%	99%	\$0.47	49
Electric	Energy Efficiency	Warehouse	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	Existing	Per Sqft	0	15	\$0.14	100%	99%	\$1.54	95
Electric	Energy Efficiency	Warehouse	Cooling DX	Equipment	DX Package 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency DX Package 65 to 135 kBTU/hr - 12 EER	Federal Standard 2010 DX Package 65 to 135 kBTU/hr - 11.2 EER	New	Per Sqft	0	15	\$0.11	100%	99%	\$0.91	53
Electric	Energy Efficiency	Warehouse	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	32
Electric	Energy Efficiency	Warehouse	Freezer	Equipment	Freezer - RTF Tier 3	RTF Tier 3 Freezer (ENERGY STAR 30% to 35% More Efficient)	RTF Market Standard Freezer	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	14
Electric	Energy Efficiency	Warehouse	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	15	\$0.37	100%	99%	\$0.54	203
Electric	Energy Efficiency	Warehouse	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	Existing	Per Sqft	0	30	\$15.70	25%	100%	\$11.27	98
Electric	Energy Efficiency	Warehouse	Heat Pump	Equipment	Air Source Heat Pump 65 to 135 kBTU/hr - Premium Efficiency	Premium Efficiency Air Source Heat Pump 65 to 135 kBTU/hr - 12.0 EER, 3.8 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	15	\$0.30	100%	98%	\$0.61	66
Electric	Energy Efficiency	Warehouse	Heat Pump	Equipment	Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - Advanced Efficiency	Advanced Efficiency Ground Source Heat Pump Replacing Air Source Heat Pump 65 to 135 kBTU/hr - 16.2 EER 4.0 COP	Federal Standard 2010 Air Source Heat Pump 65 to 135 kBTU/hr - 11.0 EER, 3.3 COP	New	Per Sqft	0	30	\$12.57	25%	100%	\$10.41	49
Electric	Energy Efficiency	Warehouse	Lighting Interior Fluorescent	Equipment	Lighting Interior - LED Tube - Above Standard	Above Standard LED Tube	Standard Fluorescent T-8	Existing	Per Sqft	0	20	\$0.83	100%	100%	\$0.50	15,861
Electric	Energy Efficiency	Warehouse	Lighting Interior HID	Equipment	Lighting Interior - High Bay Fluorescent High Output - Above Standard	High Bay Fluorescent High Output (HO)	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure	Existing	Per Sqft	1	15	\$0.23	95%	85%	\$0.03	14,230

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
							Sodium, Metal Halide									
Electric	Energy Efficiency	Warehouse	Lighting Interior HID	Equipment	Lighting Interior - High Bay LED - Above Standard	High Bay LED Advanced Efficiency	Below Standard HID Baseline - represents a mix of Mercury Vapor, High Pressure Sodium, Metal Halide	Existing	Per Sqft	1	20	\$0.26	50%	100%	\$0.01	40,367
Electric	Energy Efficiency	Warehouse	Lighting Interior Other	Equipment	Lighting Package - Advanced Efficiency	25% LPD Reduction	Standard Lighting Package	New	Per Sqft	0	13	\$0.06	100%	100%	\$0.00	15,139
Electric	Energy Efficiency	Warehouse	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base CFL - Above Standard	CFL	EISA Standard Incandescent	Existing	Per Sqft	0	4	\$0.00	50%	60%	-\$0.02	1,448
Electric	Energy Efficiency	Warehouse	Lighting Interior Screw Base	Equipment	Lighting Interior - Screw Base LED - Above Standard	LED	EISA Standard Incandescent	Existing	Per Sqft	0	12	\$0.05	50%	98%	\$0.00	10,733
Electric	Energy Efficiency	Warehouse	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	Existing	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	248
Electric	Energy Efficiency	Warehouse	Refrigerator	Equipment	Refrigerator - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Refrigerator	RTF Market Standard Refrigerator	New	Per Sqft	0	20	\$0.00	100%	100%	-\$0.01	126
Electric	Energy Efficiency	Warehouse	Vending Machines	Equipment	Vending Machines- High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	Existing	Per Sqft	0	10	\$0.01	100%	72%	\$0.12	585
Electric	Energy Efficiency	Warehouse	Vending Machines	Equipment	Vending Machines- High Efficiency	High Efficiency Vending Machines	Standard Vending Machines	New	Per Sqft	0	10	\$0.01	100%	72%	\$0.12	196
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	10	\$0.00	100%	100%	-\$0.02	70
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	Existing	Per Sqft	0	20	\$0.07	50%	100%	\$1.93	523
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	10	\$0.00	100%	100%	-\$0.02	26
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Heat Pump Water Heater - EF 1.973	New	Per Sqft	0	20	\$0.07	50%	100%	\$1.87	210
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	10	\$0.07	100%	100%	\$0.09	2,357
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	RTF Market Standard Storage Water Heater - EF 0.93	Existing	Per Sqft	0	20	\$0.21	50%	100%	\$0.56	3,338
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Heat Pump Water Heater - Advanced Efficiency	Advanced Efficiency Heat Pump Water Heater - EF 2.04	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	10	\$0.07	100%	100%	\$0.09	869
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Hot Water (SHW)	Federal Standard 2015 Storage Water Heater - EF 0.948	New	Per Sqft	0	20	\$0.21	50%	100%	\$0.56	1,346
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	Existing	0	113461	8	\$16,039.42	90%	45%	\$0.01	17,407
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	New	0	113461	8	\$16,039.42	90%	45%	\$0.01	6,254
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	Existing	0	1478	8	\$208.91	15%	45%	\$0.01	104
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	New	0	1478	8	\$208.91	15%	45%	\$0.01	62
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	Existing	0	417	8	\$58.99	15%	45%	\$0.01	57
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	New	0	417	8	\$58.99	15%	45%	\$0.01	104
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	Existing	0	3347	8	\$473.12	25%	45%	\$0.01	1,359

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	New	0	3347	8	\$473.12	25%	45%	\$0.01	523
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	Existing	0	4651	8	\$657.45	15%	45%	\$0.01	240
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	New	0	4651	8	\$657.45	15%	45%	\$0.01	111
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	Existing	0	4868	8	\$688.17	15%	45%	\$0.01	96
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Anti-Sweat (Humidistat) Controls	Anti-Sweat (Humidistat) Controls	No Anti-Sweat (Humidistat) Controls	New	0	4868	8	\$688.17	15%	45%	\$0.01	42
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	14657	5	\$2,133.33	1%	85%	\$0.02	776
Electric	Energy Efficiency	Grocery	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	40786	5	\$5,936.23	5%	85%	\$0.02	635
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	21668	5	\$3,153.63	20%	85%	\$0.02	6,651
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	22305	5	\$3,246.37	20%	85%	\$0.02	2,997
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	9878	5	\$1,437.68	20%	85%	\$0.02	22,232
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	15295	5	\$2,226.09	5%	85%	\$0.02	6,391
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	34095	5	\$4,962.32	1%	85%	\$0.02	325
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Automated Exhaust VFD Control - Parking Garage CO sensor	CO Sensors	No CO Sensors	Existing	0	35688	5	\$5,194.20	20%	85%	\$0.02	2,398
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2257	15	\$2,875.00	25%	94%	\$0.09	1,536
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	3015	15	\$2,875.00	25%	94%	\$0.10	390
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	3343	15	\$4,250.00	5%	94%	-\$0.16	116
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	5575	15	\$4,250.00	5%	94%	\$0.08	26
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	3364	15	\$4,250.00	5%	94%	\$0.11	45
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	609	15	\$4,375.00	50%	94%	\$0.79	24
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	1202	15	\$4,375.00	50%	94%	\$0.44	80
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	609	15	\$4,375.00	50%	94%	\$0.72	36
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors /	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2465	15	\$3,875.00	75%	94%	-\$0.02	8,181



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
					CO2 Sensors)											
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	4205	15	\$3,875.00	75%	94%	\$0.10	10,401
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	3445	15	\$3,875.00	75%	94%	\$0.05	5,909
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2302	15	\$3,000.00	50%	94%	\$0.04	3,217
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	3264	15	\$3,000.00	50%	94%	\$0.10	1,253
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2270	15	\$3,000.00	50%	94%	\$0.07	576
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	1892	15	\$13,375.00	25%	94%	\$0.14	94
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	13035	15	\$13,375.00	25%	94%	\$0.10	623
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2064	15	\$13,375.00	25%	94%	\$0.16	95
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	1981	15	\$14,000.00	25%	94%	-\$0.06	7
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	13644	15	\$14,000.00	25%	94%	\$0.10	13
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2160	15	\$14,000.00	25%	94%	-\$0.41	4
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	1049	9	\$618.13	10%	75%	\$0.08	517
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	937	9	\$618.13	10%	75%	\$0.09	107
Electric	Energy Efficiency	Grocery	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	4439	9	\$1,720.00	75%	75%	\$0.05	943
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	3761	9	\$1,720.00	75%	75%	\$0.06	191
Electric	Energy Efficiency	Hospital	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	1399	9	\$913.75	85%	75%	\$0.09	1,597
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	1143	9	\$913.75	85%	75%	\$0.12	303

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	524	9	\$940.63	85%	75%	\$0.28	273
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	437	9	\$940.63	85%	75%	\$0.34	53
Electric	Energy Efficiency	Office	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	1214	9	\$833.13	85%	75%	\$0.10	11,036
Electric	Energy Efficiency	Office	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	1029	9	\$833.13	85%	75%	\$0.12	2,195
Electric	Energy Efficiency	Other Commercial	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	527	9	\$645.00	25%	75%	\$0.19	1,082
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	442	9	\$645.00	25%	75%	\$0.23	212
Electric	Energy Efficiency	Restaurant	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	237	9	\$188.13	10%	75%	\$0.12	73
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	209	9	\$188.13	10%	75%	\$0.14	15
Electric	Energy Efficiency	School	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	3242	9	\$2,875.63	50%	75%	\$0.13	1,215
Electric	Energy Efficiency	School	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	2658	9	\$2,875.63	50%	75%	\$0.17	242
Electric	Energy Efficiency	University	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	2642	9	\$3,010.00	50%	75%	\$0.18	360
Electric	Energy Efficiency	University	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	2487	9	\$3,010.00	50%	75%	\$0.19	83
Electric	Energy Efficiency	Warehouse	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	1351	9	\$3,251.88	10%	75%	\$0.39	161
Electric	Energy Efficiency	Warehouse	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	889	9	\$3,251.88	10%	75%	\$0.59	25
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Case Electronically Commutated Motor	ECM Case Fans	Standard Efficiency Motor	Existing	0	15258	15	\$673.28	100%	77%	-\$0.01	4,781
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Case Electronically Commutated Motor	ECM Case Fans	Standard Efficiency Motor	Existing	0	334	15	\$14.72	10%	77%	-\$0.01	13
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Case Electronically Commutated Motor	ECM Case Fans	Standard Efficiency Motor	Existing	0	2670	15	\$117.82	5%	77%	-\$0.01	5
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Case Replacement Low Temp	Case Replacement Low Temp	No replacement	Existing	0	31279	15	\$3,387.59	100%	98%	\$0.00	12,809
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Case Replacement Low Temp	Case Replacement Low Temp	No replacement	Existing	0	171	15	\$18.53	10%	98%	\$0.00	18
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Case Replacement Low Temp	Case Replacement Low Temp	No replacement	Existing	0	2615	15	\$283.18	5%	98%	\$0.00	82

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Case Replacement Low Temp	Case Replacement Low Temp	No replacement	Existing	0	2737	15	\$296.41	5%	98%	\$0.00	34
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Case Replacement Med Temp	Case Replacement Med Temp	No replacement	Existing	0	2668	15	\$1,755.08	100%	98%	\$0.07	1,096
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Case Replacement Med Temp	Case Replacement Med Temp	No replacement	Existing	0	28	15	\$18.65	5%	98%	\$0.07	1
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Case Replacement Med Temp	Case Replacement Med Temp	No replacement	Existing	0	20	15	\$13.16	3%	98%	\$0.07	1
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Case Replacement Med Temp	Case Replacement Med Temp	No replacement	Existing	0	15	15	\$9.60	10%	98%	\$0.07	5
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Case Replacement Med Temp	Case Replacement Med Temp	No replacement	Existing	0	223	15	\$146.71	5%	98%	\$0.07	11
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Case Replacement Med Temp	Case Replacement Med Temp	No replacement	Existing	0	233	15	\$153.57	5%	98%	\$0.07	4
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	Existing	0	404	5	\$170.34	95%	81%	\$0.10	78
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	New	0	89	5	\$170.34	95%	81%	\$0.47	6
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	Existing	0	366	5	\$170.34	95%	81%	\$0.11	38
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	New	0	99	5	\$170.34	95%	81%	\$0.42	4
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	Existing	0	414	5	\$170.34	95%	81%	\$0.09	590
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	New	0	129	5	\$170.34	95%	81%	\$0.32	74
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	Existing	0	273	5	\$170.34	95%	81%	\$0.15	90
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	New	0	105	5	\$170.34	95%	81%	\$0.40	14
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	Existing	0	248	5	\$170.34	95%	81%	\$0.17	32
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	New	0	107	5	\$170.34	95%	81%	\$0.39	5
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	Existing	0	260	5	\$170.34	95%	81%	\$0.16	2
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	New	0	112	5	\$170.34	95%	81%	\$0.37	0
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	Existing	0	141	5	\$170.34	95%	81%	\$0.30	5
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Chilled Water / Condenser Water Settings-Optimization	Additional Control Features	EMS already installed - No Optimization	New	0	147	5	\$170.34	95%	81%	\$0.28	2
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	Existing	0	3955	10	\$13,369.55	25%	70%	\$0.52	151
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	New	0	833	10	\$12,032.60	25%	70%	\$2.24	14
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	Existing	0	3808	10	\$13,762.78	25%	70%	\$0.55	80
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed	New	0	971	10	\$12,386.50	25%	70%	\$1.98	8

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
							pump									
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	Existing	0	4180	10	\$12,189.89	25%	70%	\$0.45	1,233
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	New	0	1157	10	\$10,970.90	25%	70%	\$1.47	146
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	Existing	0	3114	10	\$10,617.00	25%	70%	\$0.53	214
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	New	0	1085	10	\$9,555.30	25%	70%	\$1.37	32
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	Existing	0	3804	10	\$56,099.70	25%	70%	\$2.29	100
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	New	0	1358	10	\$50,489.74	25%	70%	\$5.79	15
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	Existing	0	3457	10	\$58,721.18	25%	70%	\$2.64	4
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	New	0	1380	10	\$52,849.06	25%	70%	\$5.97	1
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	Existing	0	1347	10	\$35,684.92	25%	70%	\$4.13	10
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Chilled Water Piping Loop w/ VSD Control	VSD for secondary chilled water loop	Primary loop only w/ constant speed pump	New	0	1323	10	\$32,116.43	25%	70%	\$3.78	4
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Chiller-Water Side Economizer	Install Economizer	No Economizer	Existing	0	8152	15	\$88,555.43	45%	90%	\$1.37	686
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Chiller-Water Side Economizer	Install Economizer	No Economizer	Existing	0	7379	15	\$91,160.00	45%	30%	\$1.56	109
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Chiller-Water Side Economizer	Install Economizer	No Economizer	Existing	0	8347	15	\$80,741.71	45%	45%	\$1.22	2,552
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Chiller-Water Side Economizer	Install Economizer	No Economizer	Existing	0	5500	15	\$70,323.43	45%	30%	\$1.62	258
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Chiller-Water Side Economizer	Install Economizer	No Economizer	Existing	0	5000	15	\$371,585.52	45%	90%	\$9.43	266
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Chiller-Water Side Economizer	Install Economizer	No Economizer	Existing	0	5234	15	\$388,949.32	45%	90%	\$9.43	14
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Chiller-Water Side Economizer	Install Economizer	No Economizer	Existing	0	2839	15	\$236,364.85	45%	90%	\$10.57	42
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	3631	10	\$241.65	1%	95%	-\$0.01	11
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	1661	10	\$241.65	1%	95%	\$0.01	3
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	3405	10	\$241.65	1%	95%	-\$0.01	10
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	3457	10	\$241.65	1%	95%	-\$0.01	3
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	4612	10	\$2,255.37	2%	95%	\$0.06	12

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	2138	10	\$2,255.37	2%	95%	\$0.15	3
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	4326	10	\$2,255.37	2%	95%	\$0.07	11
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	4450	10	\$2,255.37	2%	95%	\$0.06	3
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	691	10	\$80.55	0%	95%	\$0.00	5
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	316	10	\$80.55	0%	95%	\$0.02	2
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	648	10	\$80.55	0%	95%	\$0.00	5
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	657	10	\$80.55	0%	95%	\$0.00	1
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	12217	10	\$603.31	2%	95%	\$0.00	34
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	5399	10	\$603.31	2%	95%	\$0.01	10
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	11459	10	\$603.31	2%	95%	\$0.00	33
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	11237	10	\$603.31	2%	95%	\$0.00	9
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	12787	10	\$631.51	2%	95%	\$0.00	13
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	5651	10	\$631.51	2%	95%	\$0.01	4
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	11994	10	\$631.51	2%	95%	\$0.00	13
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	11762	10	\$631.51	2%	95%	\$0.00	4
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	113	7	\$43.17	95%	80%	\$0.06	35
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	113	7	\$43.17	95%	80%	\$0.06	22
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	113	7	\$43.17	95%	80%	\$0.06	36

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						WF = 4.0	WF = 8.5									
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	113	7	\$43.17	95%	80%	\$0.06	10
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	1050	7	\$402.89	95%	80%	\$0.06	118
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	1050	7	\$402.89	95%	80%	\$0.06	75
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	1050	7	\$402.89	95%	80%	\$0.06	121
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	1050	7	\$402.89	95%	80%	\$0.06	35
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	38	7	\$14.39	95%	80%	\$0.06	90
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	38	7	\$14.39	95%	80%	\$0.06	57
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	38	7	\$14.39	95%	80%	\$0.06	92
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	38	7	\$14.39	95%	80%	\$0.06	27
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	281	7	\$107.77	95%	80%	\$0.06	35
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	281	7	\$107.77	95%	80%	\$0.06	22
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	281	7	\$107.77	95%	80%	\$0.06	36
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	281	7	\$107.77	95%	80%	\$0.06	10
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	294	7	\$112.81	95%	80%	\$0.06	13
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	294	7	\$112.81	95%	80%	\$0.06	9
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	0	294	7	\$112.81	95%	80%	\$0.06	14
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	0	294	7	\$112.81	95%	80%	\$0.06	4

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	83	6	\$9.63	70%	94%	\$0.01	95
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	161	6	\$18.65	70%	94%	\$0.01	217
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	71	6	\$8.26	70%	94%	\$0.01	5
Electric	Energy Efficiency	Grocery	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	78	6	\$9.06	70%	94%	\$0.01	8
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	105	6	\$12.09	70%	94%	\$0.01	32
Electric	Energy Efficiency	Hospital	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	301	6	\$34.83	70%	94%	\$0.01	131
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	11	6	\$1.27	70%	94%	\$0.01	2
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	110	6	\$12.71	70%	94%	\$0.01	20
Electric	Energy Efficiency	Office	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	55	6	\$6.30	70%	94%	\$0.01	136
Electric	Energy Efficiency	Office	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	71	6	\$8.25	70%	94%	\$0.01	218
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	92	6	\$10.59	70%	94%	\$0.01	175
Electric	Energy Efficiency	Other Commercial	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	148	6	\$17.10	70%	94%	\$0.01	345
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	34	6	\$3.96	70%	94%	\$0.01	25
Electric	Energy Efficiency	Restaurant	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	201	6	\$23.24	70%	94%	\$0.01	189
Electric	Energy Efficiency	School	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	139	6	\$16.10	70%	94%	\$0.01	25
Electric	Energy Efficiency	School	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	58	6	\$6.76	70%	94%	\$0.01	17
Electric	Energy Efficiency	University	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	364	6	\$42.10	70%	94%	\$0.01	24
Electric	Energy Efficiency	University	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	812	6	\$93.87	70%	94%	\$0.01	86
Electric	Energy Efficiency	Warehouse	Lighting Interior Other	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	New	0	44	6	\$5.11	70%	94%	\$0.01	12
Electric	Energy Efficiency	Warehouse	Lighting Interior Screw Base	Retrofit	Cold Cathode Lighting	Cold Cathode Lighting 5 watts	30 W Incandescent Bulb	Existing	0	98	6	\$11.37	70%	94%	\$0.01	34
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	Existing	0	831	10	\$43.42	90%	90%	-\$0.01	144
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	New	0	831	10	\$43.42	90%	90%	-\$0.01	51
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	Existing	0	63	10	\$3.29	90%	90%	-\$0.01	20
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	New	0	63	10	\$3.29	90%	90%	-\$0.01	10
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	Existing	0	202	10	\$10.57	90%	90%	-\$0.01	6
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	New	0	202	10	\$10.57	90%	90%	-\$0.01	4
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	Existing	0	121	10	\$6.34	90%	90%	-\$0.01	588
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	New	0	121	10	\$6.34	90%	90%	-\$0.01	202
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	Existing	0	6227	10	\$325.56	90%	90%	-\$0.01	3,981

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	New	0	6227	10	\$325.56	90%	90%	-\$0.01	1,295
Electric	Energy Efficiency	School	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	Existing	0	94	10	\$4.92	90%	90%	-\$0.01	34
Electric	Energy Efficiency	School	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	New	0	94	10	\$4.92	90%	90%	-\$0.01	15
Electric	Energy Efficiency	University	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	Existing	0	180	10	\$9.39	90%	90%	-\$0.01	28
Electric	Energy Efficiency	University	Cooking	Retrofit	Combination Oven	60% cooking efficiency	Non ENERGY STAR	New	0	180	10	\$9.39	90%	90%	-\$0.01	11
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	Existing	0	48293	10	\$53,410.96	90%	85%	\$0.16	15,522
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	New	0	48293	10	\$53,410.96	90%	85%	\$0.16	5,036
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	Existing	0	629	10	\$695.67	90%	85%	\$0.16	930
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	New	0	629	10	\$695.67	90%	85%	\$0.16	302
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	Existing	0	178	10	\$196.42	90%	85%	\$0.16	1,615
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	New	0	178	10	\$196.42	90%	85%	\$0.16	524
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	Existing	0	1425	10	\$1,575.48	90%	85%	\$0.16	4,896
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	New	0	1425	10	\$1,575.48	90%	85%	\$0.16	1,588
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	Existing	0	1980	10	\$2,189.30	90%	85%	\$0.16	1,714
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	New	0	1980	10	\$2,189.30	90%	85%	\$0.16	556
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	Existing	0	2072	10	\$2,291.61	90%	85%	\$0.16	652
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Commercial Refrigerator - Semivertical - No Doors - Med Temp	Standard Case	New	0	2072	10	\$2,291.61	90%	85%	\$0.16	212
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	Existing	0	18102	10	\$72,408.27	90%	85%	\$0.61	5,818
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	New	0	18102	10	\$72,408.27	90%	85%	\$0.61	1,888
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med	Standard Case	Existing	0	236	10	\$943.10	90%	85%	\$0.61	349



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						Temp										
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	New	0	236	10	\$943.10	90%	85%	\$0.61	113
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	Existing	0	67	10	\$266.29	90%	85%	\$0.61	606
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	New	0	67	10	\$266.29	90%	85%	\$0.61	196
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	Existing	0	534	10	\$2,135.85	90%	85%	\$0.61	1,835
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	New	0	534	10	\$2,135.85	90%	85%	\$0.61	595
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	Existing	0	742	10	\$2,968.00	90%	85%	\$0.61	642
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	New	0	742	10	\$2,968.00	90%	85%	\$0.61	208
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	Existing	0	777	10	\$3,106.69	90%	85%	\$0.61	245
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Commercial Refrigerator - Vertical - No Doors - Med Temp	Commercial Refrigerator - Vertical - No Doors - Med Temp	Standard Case	New	0	777	10	\$3,106.69	90%	85%	\$0.61	79
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Compressor VSD Retrofit	VSD Compressor	Constant Speed Compressor	Existing	0	4052	13	\$1,600.00	60%	77%	\$0.04	648
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Compressor VSD Retrofit	VSD Compressor	Constant Speed Compressor	Existing	0	29	13	\$5.89	60%	77%	\$0.01	148
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	5189	15	\$34,943.57	15%	68%	\$0.77	962
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7978	15	\$34,943.57	15%	68%	\$0.54	324
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7466	15	\$34,943.57	15%	68%	\$0.58	4,065
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7688	15	\$51,655.72	15%	68%	\$0.48	470
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	14749	15	\$51,655.72	15%	68%	\$0.43	106
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	21851	15	\$51,655.72	15%	68%	\$0.28	3,264
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7736	15	\$51,655.72	15%	68%	\$0.79	167
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7002	15	\$53,175.00	15%	68%	\$0.82	58
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	15906	15	\$53,175.00	15%	68%	\$0.41	235

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	13575	15	\$53,175.00	15%	68%	\$0.48	860
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7003	15	\$53,175.00	15%	68%	\$0.74	87
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	5667	15	\$47,097.85	15%	68%	\$0.80	1,877
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	11124	15	\$47,097.85	15%	68%	\$0.52	2,836
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	5679	15	\$47,097.85	15%	68%	\$1.04	6,061
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7921	15	\$47,097.85	15%	68%	\$0.64	1,322
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	5295	15	\$36,462.85	15%	68%	\$0.73	1,012
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	8636	15	\$36,462.85	15%	68%	\$0.52	512
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	6094	15	\$36,462.85	15%	68%	\$0.74	5,086
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	5219	15	\$36,462.85	15%	68%	\$0.77	202
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	4352	15	\$162,563.57	15%	68%	\$3.85	61
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	34485	15	\$162,563.57	15%	68%	\$0.57	537
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	16952	15	\$162,563.57	15%	68%	\$1.20	1,617
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	4746	15	\$162,563.57	15%	68%	\$3.57	70
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	4555	15	\$170,160.00	15%	68%	\$3.61	5
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	36096	15	\$170,160.00	15%	68%	\$0.57	11
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	17744	15	\$170,160.00	15%	68%	\$1.20	542
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	4967	15	\$170,160.00	15%	68%	\$2.89	4
Electric	Energy Efficiency	Grocery	Ventilation and Circulation	Retrofit	Cooking Hood Controls	Demand-Ventilation Control	No Controls	Existing	0	1119	18	\$3,750.00	95%	65%	\$0.38	253
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Cooking Hood Controls	Demand-Ventilation Control	No Controls	Existing	0	131	18	\$437.50	95%	85%	\$0.37	190
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Cooking Hood Controls	Demand-Ventilation Control	No Controls	Existing	0	1119	18	\$3,750.00	95%	45%	\$0.38	378
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Cooking Hood Controls	Demand-Ventilation Control	No Controls	Existing	0	93	18	\$312.50	95%	65%	\$0.37	566
Electric	Energy Efficiency	Restaurant	Ventilation and Circulation	Retrofit	Cooking Hood Controls	Demand-Ventilation Control	No Controls	Existing	0	1865	18	\$6,250.00	95%	25%	\$0.38	1,779
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Cooking Hood Controls	Demand-Ventilation Control	No Controls	Existing	0	1119	18	\$3,750.00	95%	85%	\$0.38	1,013

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Cooking Hood Controls	Demand-Ventilation Control	No Controls	Existing	0	1119	18	\$3,750.00	95%	85%	\$0.38	357
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	Existing	0	2588	8	\$1,652.78	10%	94%	\$0.11	69
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	New	0	571	8	\$1,487.50	10%	94%	\$0.46	5
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	Existing	0	2343	8	\$1,701.39	10%	94%	\$0.12	30
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	New	0	633	8	\$1,531.25	10%	94%	\$0.43	3
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	Existing	0	2650	8	\$1,506.95	10%	94%	\$0.09	472
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	New	0	826	8	\$1,356.25	10%	94%	\$0.29	58
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	Existing	0	1746	8	\$1,312.50	10%	94%	\$0.13	72
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	New	0	671	8	\$1,181.25	10%	94%	\$0.31	11
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	Existing	0	1587	8	\$6,935.19	10%	94%	\$0.78	24
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	New	0	686	8	\$6,241.67	10%	94%	\$1.64	4
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	Existing	0	1662	8	\$7,259.26	10%	94%	\$0.78	1
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	New	0	718	8	\$6,533.33	10%	94%	\$1.64	0
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	Existing	0	901	8	\$4,411.45	10%	94%	\$0.88	4
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Cooling Tower- Decrease Approach Temperature	6 Deg F	10 Deg F	New	0	940	8	\$3,970.31	10%	94%	\$0.76	1
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Cooling Tower-VSD Fan Control	Variable-Speed Tower Fans replace Two-Speed	Cooling Tower-Two-Speed Fan Motor	Existing	0	1956	13	\$710.41	75%	75%	\$0.04	326
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Cooling Tower-VSD Fan Control	Variable-Speed Tower Fans replace Two-Speed	Cooling Tower-Two-Speed Fan Motor	Existing	0	1753	13	\$731.31	75%	75%	\$0.05	141
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Cooling Tower-VSD Fan Control	Variable-Speed Tower Fans replace Two-Speed	Cooling Tower-Two-Speed Fan Motor	Existing	0	1986	13	\$647.73	75%	75%	\$0.04	2,519
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Cooling Tower-VSD Fan Control	Variable-Speed Tower Fans replace Two-Speed	Cooling Tower-Two-Speed Fan Motor	Existing	0	1196	13	\$564.15	75%	75%	\$0.06	346
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Cooling Tower-VSD Fan Control	Variable-Speed Tower Fans replace Two-Speed	Cooling Tower-Two-Speed Fan Motor	Existing	0	567	13	\$2,980.96	75%	75%	\$0.71	53
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Cooling Tower-VSD Fan Control	Variable-Speed Tower Fans replace Two-Speed	Cooling Tower-Two-Speed Fan Motor	Existing	0	1245	13	\$3,120.27	75%	75%	\$0.34	6
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Cooling Tower-VSD Fan Control	Variable-Speed Tower Fans replace Two-Speed	Cooling Tower-Two-Speed Fan Motor	Existing	0	676	13	\$1,896.19	75%	75%	\$0.38	19
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	1077	10	\$299.67	20%	95%	\$0.03	1,450
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	1077	10	\$299.67	20%	95%	\$0.03	470

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	2997	10	\$833.87	20%	95%	\$0.03	239
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	2997	10	\$833.87	20%	95%	\$0.03	78
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	1592	10	\$442.99	20%	95%	\$0.03	585
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	1592	10	\$442.99	20%	95%	\$0.03	190
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	1639	10	\$456.02	20%	95%	\$0.03	274
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	1639	10	\$456.02	20%	95%	\$0.03	89
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	1452	10	\$403.91	20%	95%	\$0.03	4,293
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	1452	10	\$403.91	20%	95%	\$0.03	1,393
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	1124	10	\$312.70	20%	95%	\$0.03	2,539
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	1124	10	\$312.70	20%	95%	\$0.03	824
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	328	10	\$91.20	20%	95%	\$0.03	280
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	328	10	\$91.20	20%	95%	\$0.03	91
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	5011	10	\$1,394.13	20%	95%	\$0.03	1,077
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	5011	10	\$1,394.13	20%	95%	\$0.03	350
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	5245	10	\$1,459.27	20%	95%	\$0.03	410
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	5245	10	\$1,459.27	20%	95%	\$0.03	133
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	Existing	0	5667	10	\$1,576.54	20%	95%	\$0.03	1,859
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Covered Parking Lighting	Covered Parking Lighting	Normal Lighting	New	0	5667	10	\$1,576.54	20%	95%	\$0.03	603
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	6103	10	\$9,780.75	10%	80%	\$0.24	1,198
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	15464	10	\$18,144.00	10%	90%	\$0.18	250
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	9041	10	\$9,639.00	10%	30%	\$0.16	168
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	8235	10	\$9,922.50	10%	30%	\$0.18	25
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	6665	10	\$8,788.50	10%	20%	\$0.20	546
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	6227	10	\$7,654.50	10%	70%	\$0.19	1,070
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	4052	10	\$3,969.00	10%	50%	\$0.15	347
Electric	Energy Efficiency	School	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	5118	10	\$40,446.00	10%	60%	\$1.23	53
Electric	Energy Efficiency	University	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	5357	10	\$42,336.00	10%	60%	\$1.23	4
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	DX Package-Air Side Economizer	Air-Side Economizer	No Economizer	Existing	0	3209	10	\$25,727.63	10%	40%	\$1.24	27
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	3051	5	\$2,760.00	7%	75%	\$0.22	375

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	7732	5	\$5,120.00	7%	75%	\$0.16	71
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	4521	5	\$2,720.00	7%	75%	\$0.14	146
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	4117	5	\$2,800.00	7%	75%	\$0.16	22
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	3332	5	\$2,480.00	7%	75%	\$0.18	664
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	3113	5	\$2,160.00	7%	75%	\$0.17	378
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	2026	5	\$1,120.00	7%	75%	\$0.13	131
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	2559	5	\$11,413.34	7%	75%	\$1.11	21
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	2678	5	\$11,946.66	7%	75%	\$1.11	2
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Economizer Tune-up	Economizer Tune-up	No Economizer Tune-Up	Existing	0	1605	5	\$7,260.00	7%	75%	\$1.13	17
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	691	8	\$156.73	75%	70%	\$0.03	2,526
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	1172	8	\$266.03	75%	70%	\$0.03	250
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	722	8	\$163.74	75%	70%	\$0.02	706
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	569	8	\$129.02	75%	70%	\$0.03	254
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	657	8	\$149.15	75%	70%	\$0.02	5,122
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	706	8	\$160.16	75%	70%	\$0.03	4,342
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	374	8	\$84.95	75%	70%	\$0.03	875
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	1538	8	\$348.93	75%	70%	\$0.03	890
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	1050	8	\$238.33	75%	70%	\$0.03	221
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Daylighting Controls, Outdoors (Photocell)	Photocell	No Controls	Existing	0	1643	8	\$372.80	75%	70%	\$0.02	1,393
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	Existing	0	34684	10	\$69,392.40	95%	68%	\$0.30	9,344
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	New	0	34684	10	\$69,392.40	95%	68%	\$0.30	3,032
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	Existing	0	452	10	\$903.82	5%	68%	\$0.30	29
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	New	0	452	10	\$903.82	5%	68%	\$0.30	10
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	Existing	0	128	10	\$255.20	5%	68%	\$0.30	51
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	New	0	128	10	\$255.20	5%	68%	\$0.30	17
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	Existing	0	1023	10	\$2,046.89	5%	68%	\$0.30	155
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	New	0	1023	10	\$2,046.89	5%	68%	\$0.30	50
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	Existing	0	1422	10	\$2,844.38	5%	68%	\$0.30	54
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	New	0	1422	10	\$2,844.38	5%	68%	\$0.30	18

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	Existing	0	1488	10	\$2,977.30	5%	68%	\$0.30	21
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Demand Control Defrost - Hot Gas	Refrigerant Defrost	Defrost - Electric	New	0	1488	10	\$2,977.30	5%	68%	\$0.30	7
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	166	10	\$3,194.70	75%	94%	\$2.99	232
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	75	10	\$3,194.70	75%	94%	\$6.65	64
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	156	10	\$3,194.70	75%	94%	\$3.19	224
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	156	10	\$3,194.70	75%	94%	\$3.19	63
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	487	10	\$8,889.60	75%	94%	\$2.83	18
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	225	10	\$8,889.60	75%	94%	\$6.15	5
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	457	10	\$8,889.60	75%	94%	\$3.02	17
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	468	10	\$8,889.60	75%	94%	\$2.95	5
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	1200	10	\$4,722.60	55%	94%	\$0.60	232
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	549	10	\$4,722.60	55%	94%	\$1.32	64
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	1126	10	\$4,722.60	55%	94%	\$0.64	222
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	1143	10	\$4,722.60	55%	94%	\$0.63	64
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	1525	10	\$4,861.50	55%	80%	\$0.48	83
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	707	10	\$4,861.50	55%	80%	\$1.06	21
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	1430	10	\$4,861.50	55%	80%	\$0.52	71
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	1471	10	\$4,861.50	55%	80%	\$0.50	22
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems	Constant Circulation	Existing	0	365	10	\$4,305.90	55%	80%	\$1.82	847

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						(VFD control by demand)										
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	169	10	\$4,305.90	55%	80%	\$3.96	241
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	342	10	\$4,305.90	55%	80%	\$1.95	816
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	351	10	\$4,305.90	55%	80%	\$1.90	235
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	229	10	\$3,333.60	55%	94%	\$2.26	312
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	104	10	\$3,333.60	55%	94%	\$4.97	77
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	214	10	\$3,333.60	55%	94%	\$2.41	298
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	217	10	\$3,333.60	55%	94%	\$2.38	85
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	1548	10	\$972.30	75%	94%	\$0.08	717
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	702	10	\$972.30	75%	94%	\$0.20	166
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	1452	10	\$972.30	75%	94%	\$0.09	673
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	1461	10	\$972.30	75%	94%	\$0.09	190
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	4039	10	\$14,862.30	55%	94%	\$0.56	324
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	1785	10	\$14,862.30	55%	94%	\$1.29	86
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	3788	10	\$14,862.30	55%	94%	\$0.60	311
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	3715	10	\$14,862.30	55%	94%	\$0.61	85
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	4227	10	\$15,556.80	55%	94%	\$0.56	123
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	1868	10	\$15,556.80	55%	94%	\$1.29	33

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	3965	10	\$15,556.80	55%	94%	\$0.60	118
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	3888	10	\$15,556.80	55%	94%	\$0.61	32
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	604	10	\$16,806.90	55%	94%	\$4.32	181
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	276	10	\$16,806.90	55%	94%	\$9.48	51
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	0	566	10	\$16,806.90	55%	94%	\$4.61	175
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	0	574	10	\$16,806.90	55%	94%	\$4.55	50
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	6487	8	\$2,370.73	30%	84%	\$0.05	10,477
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	5797	8	\$2,370.73	30%	84%	\$0.06	2,459
Electric	Energy Efficiency	Grocery	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	16174	8	\$3,886.54	30%	96%	\$0.03	1,719
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	13704	8	\$3,886.54	30%	96%	\$0.04	394
Electric	Energy Efficiency	Hospital	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	8282	8	\$3,354.52	30%	51%	\$0.06	2,200
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	6769	8	\$3,354.52	30%	51%	\$0.07	471
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	3936	8	\$4,382.50	30%	92%	\$0.19	806
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	3287	8	\$4,382.50	30%	92%	\$0.23	177
Electric	Energy Efficiency	Office	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	7893	8	\$3,357.72	30%	78%	\$0.06	25,556
Electric	Energy Efficiency	Office	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	6689	8	\$3,357.72	30%	78%	\$0.07	5,728
Electric	Energy Efficiency	Other Commercial	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	3190	8	\$2,420.87	30%	84%	\$0.12	8,371
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	2673	8	\$2,420.87	30%	84%	\$0.15	1,853
Electric	Energy Efficiency	Restaurant	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	2707	8	\$1,331.22	30%	98%	\$0.07	3,077
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	2384	8	\$1,331.22	30%	98%	\$0.09	735
Electric	Energy Efficiency	School	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	9005	8	\$4,953.95	30%	81%	\$0.09	2,141



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	7383	8	\$4,953.95	30%	81%	\$0.11	483
Electric	Energy Efficiency	University	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	10745	8	\$7,591.60	30%	81%	\$0.11	929
Electric	Energy Efficiency	University	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	10115	8	\$7,591.60	30%	81%	\$0.12	241
Electric	Energy Efficiency	Warehouse	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	3514	8	\$5,243.44	30%	98%	\$0.25	1,550
Electric	Energy Efficiency	Warehouse	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	2313	8	\$5,243.44	30%	98%	\$0.39	270
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	5425	15	\$23,958.33	50%	94%	\$0.55	5,443
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	2682	15	\$23,958.33	50%	94%	\$1.13	1,156
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	13745	15	\$66,666.67	50%	94%	\$0.61	1,003
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	11528	15	\$66,666.67	50%	94%	\$0.73	365
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	8037	15	\$35,416.67	50%	94%	\$0.55	2,228
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	2096	15	\$35,416.67	50%	94%	\$2.14	258
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	7320	15	\$36,458.33	50%	94%	\$0.63	323
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	2324	15	\$36,458.33	50%	94%	\$1.99	41
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	5924	15	\$32,291.67	50%	94%	\$0.69	10,325
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	2109	15	\$32,291.67	50%	94%	\$1.94	1,605
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	5535	15	\$25,000.00	50%	94%	\$0.57	5,569
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	2464	15	\$25,000.00	50%	94%	\$1.28	1,082
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	3602	15	\$7,291.67	50%	94%	\$0.25	2,656
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	1348	15	\$7,291.67	50%	94%	\$0.68	319
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	4549	15	\$111,458.33	50%	94%	\$3.11	338
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	2189	15	\$111,458.33	50%	94%	\$6.46	70
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	4762	15	\$116,666.67	50%	94%	\$3.11	28
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	2291	15	\$116,666.67	50%	94%	\$6.46	6

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	Existing	0	2853	15	\$126,041.67	50%	94%	\$5.60	230
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Direct / Indirect Evaporative Cooling, Pre-Cooling	Evaporative Cooler	Standard DX cooling	New	0	3449	15	\$126,041.67	50%	94%	\$4.63	104
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	0	3713	8	\$11,216.93	75%	59%	\$0.46	1,035
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	0	5708	8	\$11,216.93	75%	59%	\$0.34	348
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	0	9408	8	\$31,212.31	75%	61%	\$0.38	228
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	0	25021	8	\$31,212.31	75%	61%	\$0.21	122
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3713	8	\$8,510.00	50%	80%	\$0.32	3,263
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	5708	8	\$8,510.00	50%	80%	\$0.25	906
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	9408	8	\$23,680.00	50%	80%	\$0.23	569
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	25021	8	\$23,680.00	50%	80%	\$0.16	279
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	5501	8	\$12,580.00	75%	80%	\$0.04	2,348
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	10553	8	\$12,580.00	75%	80%	\$0.20	454
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	5535	8	\$12,580.00	75%	80%	\$0.35	784
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	5010	8	\$12,950.00	50%	80%	\$0.32	169
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	11381	8	\$12,950.00	50%	80%	\$0.19	686
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	5011	8	\$12,950.00	50%	80%	\$0.25	260
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	4055	8	\$11,470.00	50%	80%	\$0.26	6,186
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	7959	8	\$11,470.00	50%	80%	\$0.24	8,266
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	5668	8	\$11,470.00	50%	80%	\$0.26	4,032
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3788	8	\$8,880.00	50%	80%	\$0.28	3,282
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	6179	8	\$8,880.00	50%	80%	\$0.24	1,397
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3734	8	\$8,880.00	50%	80%	\$0.31	564

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	2466	8	\$2,590.00	50%	100%	\$0.16	1,637
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	2920	8	\$2,590.00	50%	100%	\$0.15	442
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3114	8	\$39,590.00	50%	80%	\$1.40	137
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	24674	8	\$39,590.00	50%	80%	\$0.26	1,568
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3395	8	\$39,590.00	50%	80%	\$1.33	194
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	25827	8	\$41,440.00	50%	80%	\$0.26	14
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3554	8	\$41,440.00	50%	80%	\$0.65	3
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	1953	8	\$44,770.00	50%	98%	\$3.76	82
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	7553	8	\$44,770.00	50%	98%	\$1.04	184
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	1928	8	\$44,770.00	50%	98%	\$3.83	18
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	74	12	\$42.32	95%	95%	\$0.07	4
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	74	12	\$42.32	95%	95%	\$0.07	3
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	74	12	\$42.32	95%	95%	\$0.07	4
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	74	12	\$42.32	95%	95%	\$0.07	1
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	114	12	\$65.11	95%	95%	\$0.06	42
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	114	12	\$65.11	95%	95%	\$0.06	27
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	114	12	\$65.11	95%	95%	\$0.06	43
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	114	12	\$65.11	95%	95%	\$0.06	13
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	256	12	\$145.60	95%	95%	\$0.07	35
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	256	12	\$145.60	95%	95%	\$0.07	22
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	256	12	\$145.60	95%	95%	\$0.07	36
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	256	12	\$145.60	95%	95%	\$0.07	10
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	4	12	\$2.51	95%	95%	\$0.07	13

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	4	12	\$2.51	95%	95%	\$0.07	8
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	4	12	\$2.51	95%	95%	\$0.07	13
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	4	12	\$2.51	95%	95%	\$0.07	4
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	2856	12	\$1,624.40	95%	95%	\$0.07	1,945
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	2856	12	\$1,624.40	95%	95%	\$0.07	1,237
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	2856	12	\$1,624.40	95%	95%	\$0.07	2,001
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	2856	12	\$1,624.40	95%	95%	\$0.07	579
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	409	12	\$232.68	95%	95%	\$0.07	62
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	409	12	\$232.68	95%	95%	\$0.07	40
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	409	12	\$232.68	95%	95%	\$0.07	64
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	409	12	\$232.68	95%	95%	\$0.07	18
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	409	12	\$232.68	95%	95%	\$0.07	23
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	409	12	\$232.68	95%	95%	\$0.07	14
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	0	409	12	\$232.68	95%	95%	\$0.07	23
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - High Temp	High Efficiency Dishwasher (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	0	409	12	\$232.68	95%	95%	\$0.07	7
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	Existing	0	5307	8	\$1,237.71	90%	85%	\$0.03	1,411
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	New	0	5307	8	\$1,237.71	90%	85%	\$0.03	505
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	Existing	0	69	8	\$16.12	90%	85%	\$0.03	93
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	New	0	69	8	\$16.12	90%	85%	\$0.03	31
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	Existing	0	20	8	\$4.55	90%	85%	\$0.03	118
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	New	0	20	8	\$4.55	90%	85%	\$0.03	41
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	Existing	0	157	8	\$36.51	90%	85%	\$0.03	448
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	New	0	157	8	\$36.51	90%	85%	\$0.03	162
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	Existing	0	218	8	\$50.73	90%	85%	\$0.03	163
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	New	0	218	8	\$50.73	90%	85%	\$0.03	54

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	Existing	0	228	8	\$53.10	90%	85%	\$0.03	62
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Display Case Motion Sensors	Display Case Motion Sensors	No Motion Sensors	New	0	228	8	\$53.10	90%	85%	\$0.03	21
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	663	25	\$1,250.03	5%	92%	\$0.19	63
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	299	25	\$1,250.03	25%	92%	\$0.45	91
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	622	25	\$1,250.03	5%	92%	\$0.21	60
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	622	25	\$1,250.03	25%	92%	\$0.21	88
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	1949	25	\$8,333.50	5%	92%	\$0.46	5
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	900	25	\$8,333.50	25%	92%	\$1.01	7
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	1828	25	\$8,333.50	5%	92%	\$0.49	5
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	1872	25	\$8,333.50	25%	92%	\$0.48	7
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	4801	25	\$12,083.58	5%	92%	\$0.26	86
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	2196	25	\$12,083.58	25%	92%	\$0.59	123
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	4503	25	\$12,083.58	5%	92%	\$0.28	82
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	4571	25	\$12,083.58	25%	92%	\$0.28	122
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	6099	25	\$11,458.56	5%	92%	\$0.19	36
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	2827	25	\$11,458.56	25%	92%	\$0.43	46
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	5721	25	\$11,458.56	5%	92%	\$0.21	31
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	5885	25	\$11,458.56	25%	92%	\$0.20	49
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	1460	25	\$2,083.38	5%	92%	\$0.14	366
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	675	25	\$2,083.38	25%	92%	\$0.33	540
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	1369	25	\$2,083.38	5%	92%	\$0.15	352
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	1405	25	\$2,083.38	25%	92%	\$0.15	526
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	914	25	\$2,291.71	5%	92%	\$0.26	126
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water	Install (Power-Pipe or GFX) - Heat Recovery	No Heat Recovery System	New	0	417	25	\$2,291.71	25%	92%	\$0.59	149

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
					Heater	Water Heater										
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	857	25	\$2,291.71	5%	92%	\$0.28	121
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	868	25	\$2,291.71	25%	92%	\$0.28	180
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	6194	25	\$1,875.04	5%	92%	\$0.02	207
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	2807	25	\$1,875.04	25%	92%	\$0.06	301
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	5810	25	\$1,875.04	5%	92%	\$0.02	200
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	5842	25	\$1,875.04	25%	92%	\$0.02	293
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	16154	25	\$7,916.83	5%	92%	\$0.04	121
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	7139	25	\$7,916.83	25%	92%	\$0.11	169
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	15152	25	\$7,916.83	5%	92%	\$0.05	117
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	14858	25	\$7,916.83	25%	92%	\$0.05	166
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	16909	25	\$8,333.50	5%	92%	\$0.04	46
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	7473	25	\$8,333.50	25%	92%	\$0.11	64
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	15860	25	\$8,333.50	5%	92%	\$0.05	44
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	15553	25	\$8,333.50	25%	92%	\$0.05	63
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	2415	25	\$1,458.36	5%	92%	\$0.05	67
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	1103	25	\$1,458.36	25%	92%	\$0.13	98
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	0	2265	25	\$1,458.36	5%	92%	\$0.05	64
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	0	2297	25	\$1,458.36	25%	92%	\$0.05	95
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	1887	18	\$8,625.00	45%	65%	\$0.47	1,329
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	2901	18	\$8,625.00	45%	65%	\$0.33	392
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	4781	18	\$16,000.00	45%	65%	\$0.24	259
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	12715	18	\$16,000.00	45%	65%	\$0.13	151
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	2795	18	\$8,500.00	45%	65%	\$0.12	523

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	5363	18	\$8,500.00	45%	65%	\$0.17	147
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	2546	18	\$8,750.00	45%	65%	\$0.26	79
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	5783	18	\$8,750.00	45%	65%	\$0.16	313
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	2061	18	\$7,750.00	45%	65%	\$0.26	2,544
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	4045	18	\$7,750.00	45%	65%	\$0.20	3,752
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	1925	18	\$6,750.00	45%	65%	\$0.31	1,361
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	3140	18	\$6,750.00	45%	65%	\$0.23	615
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	1253	18	\$3,500.00	45%	65%	\$0.30	466
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	1484	18	\$3,500.00	45%	65%	\$0.26	164
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	1582	18	\$35,666.67	45%	65%	\$1.96	83
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	12539	18	\$35,666.67	45%	65%	\$0.30	624
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	1656	18	\$37,333.33	45%	65%	\$1.65	7
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	13125	18	\$37,333.33	45%	65%	\$0.30	13
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	992	18	\$22,687.50	45%	65%	\$2.41	60
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	3838	18	\$22,687.50	45%	65%	\$0.66	85
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$0.88	100%	20%	\$1.01	0
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$0.88	100%	20%	\$1.01	0
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	1	5	\$3.75	100%	20%	\$1.01	0
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	1	5	\$3.75	100%	20%	\$1.01	0
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	2	5	\$7.10	100%	20%	\$1.01	1
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	2	5	\$7.10	100%	20%	\$1.01	0
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$1.61	100%	20%	\$1.01	0
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$1.61	100%	20%	\$1.01	0
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$0.70	100%	20%	\$1.01	1
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$0.70	100%	20%	\$1.01	0
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$0.82	100%	20%	\$1.02	0
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$0.82	100%	20%	\$1.02	0
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$0.53	100%	20%	\$1.01	0
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$0.53	100%	20%	\$1.01	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$0.13	100%	20%	\$1.04	0
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$0.13	100%	20%	\$1.04	0
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$0.13	100%	20%	\$1.00	0
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$0.13	100%	20%	\$1.00	0
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	Existing	0	0	5	\$1.83	100%	20%	\$1.01	0
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	ENERGY STAR - Battery Charging System	ENERGY STAR Battery Charging System	Non-ENERGY STAR Battery Chargers	New	0	0	5	\$1.83	100%	20%	\$1.01	0
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	66	10	\$0.19	95%	20%	-\$0.02	89
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	66	10	\$0.19	95%	20%	-\$0.02	29
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	64	10	\$0.18	95%	20%	-\$0.02	5
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	64	10	\$0.18	95%	20%	-\$0.02	2
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	269	10	\$0.74	95%	20%	-\$0.02	99
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	269	10	\$0.74	95%	20%	-\$0.02	32
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	50	10	\$0.13	95%	20%	-\$0.02	8
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	50	10	\$0.13	95%	20%	-\$0.02	3
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	427	10	\$1.18	95%	20%	-\$0.02	1,263
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	427	10	\$1.18	95%	20%	-\$0.02	410
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	44	10	\$0.12	95%	20%	-\$0.02	100
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	44	10	\$0.12	95%	20%	-\$0.02	32
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	160	10	\$0.44	95%	20%	-\$0.02	137
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	160	10	\$0.44	95%	20%	-\$0.02	44
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	41	10	\$0.11	95%	20%	-\$0.02	9
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	41	10	\$0.11	95%	20%	-\$0.02	3
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	93	10	\$0.26	95%	20%	-\$0.02	7
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	93	10	\$0.26	95%	20%	-\$0.02	2



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	Existing	0	308	10	\$0.86	95%	20%	-\$0.02	101
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	ENERGY STAR - Water Cooler	ENERGY STAR Water Cooler (Hot/Cold Water)	Non-ENERGY STAR Water Cooler	New	0	308	10	\$0.86	95%	20%	-\$0.02	33
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	Existing	0	3178	15	\$22,988.88	90%	65%	\$0.90	781
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	New	0	3178	15	\$22,988.88	90%	65%	\$0.90	253
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	Existing	0	37	15	\$299.43	90%	65%	\$1.02	42
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	New	0	37	15	\$299.43	90%	65%	\$1.02	14
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	Existing	0	7	15	\$84.55	90%	65%	\$1.57	47
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	New	0	7	15	\$84.55	90%	65%	\$1.57	15
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	Existing	0	92	15	\$678.11	90%	65%	\$0.92	241
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	New	0	92	15	\$678.11	90%	65%	\$0.92	78
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	Existing	0	109	15	\$942.31	90%	65%	\$1.08	72
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	New	0	109	15	\$942.31	90%	65%	\$1.08	23
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	Existing	0	114	15	\$986.34	90%	65%	\$1.08	27
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Evaporative Condenser - High-Efficiency	High-Efficiency Evaporative Condenser	Air-Cooled Condenser	New	0	114	15	\$986.34	90%	65%	\$1.08	9
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	Existing	0	643	16	\$555.60	90%	85%	\$0.09	162
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	New	0	643	16	\$555.60	90%	85%	\$0.09	59
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	Existing	0	214	16	\$185.20	90%	85%	\$0.09	277
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	New	0	214	16	\$185.20	90%	85%	\$0.09	91
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	Existing	0	214	16	\$185.20	90%	85%	\$0.09	1,274
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	New	0	214	16	\$185.20	90%	85%	\$0.09	439
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	Existing	0	429	16	\$370.40	90%	85%	\$0.09	1,177
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	New	0	429	16	\$370.40	90%	85%	\$0.09	425
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	Existing	0	429	16	\$370.40	90%	85%	\$0.09	305
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	New	0	429	16	\$370.40	90%	85%	\$0.09	102
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	Existing	0	429	16	\$370.40	90%	85%	\$0.09	111
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Evaporator Fan Controller	ECM Evaporator Fan Controller	No Controller	New	0	429	16	\$370.40	90%	85%	\$0.09	37

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	5004	14	\$28,078.84	5%	94%	\$0.72	92
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	2465	14	\$28,078.84	5%	94%	\$1.48	20
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	21933	14	\$78,132.42	5%	94%	\$0.45	32
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	7927	14	\$78,132.42	5%	94%	\$1.28	4
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	9251	14	\$41,507.85	5%	94%	\$0.57	30
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	3931	14	\$41,507.85	5%	94%	\$1.37	5
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	9976	14	\$42,728.68	5%	94%	\$0.55	66
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	5087	14	\$42,728.68	5%	94%	\$1.09	14
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	6977	14	\$37,845.39	5%	94%	\$0.69	799
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	3022	14	\$37,845.39	5%	94%	\$1.62	148
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	5417	14	\$29,299.66	5%	94%	\$0.69	145
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	2473	14	\$29,299.66	5%	94%	\$1.54	24
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	2560	14	\$8,545.73	5%	94%	\$0.43	37
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	1015	14	\$8,545.73	5%	94%	\$1.09	4
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	21629	14	\$130,627.65	5%	94%	\$0.76	152
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	9296	14	\$130,627.65	5%	94%	\$1.82	24
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	22640	14	\$136,731.75	5%	94%	\$0.76	3
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	9731	14	\$136,731.75	5%	94%	\$1.82	1
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	6621	14	\$147,719.12	5%	94%	\$2.90	18
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	4833	14	\$147,719.12	5%	94%	\$3.98	5
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	341	10	\$439.33	64%	85%	\$0.18	33
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	341	10	\$439.33	64%	85%	\$0.18	13

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	388	10	\$439.33	64%	85%	\$0.16	7
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	388	10	\$439.33	64%	85%	\$0.16	2
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	69	10	\$88.86	62%	85%	\$0.17	22
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	69	10	\$88.86	62%	85%	\$0.17	10
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	78	10	\$88.86	62%	85%	\$0.16	3
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	78	10	\$88.86	62%	85%	\$0.16	1
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	69	10	\$88.86	62%	85%	\$0.18	9
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	69	10	\$88.86	62%	85%	\$0.18	3
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	83	10	\$106.96	58%	85%	\$0.19	4
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	83	10	\$106.96	58%	85%	\$0.19	2
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	94	10	\$106.96	58%	85%	\$0.16	7
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	94	10	\$106.96	58%	85%	\$0.16	3
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	83	10	\$106.96	58%	85%	\$0.18	6
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	83	10	\$106.96	58%	85%	\$0.18	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	50	10	\$64.17	100%	85%	\$0.18	99
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	50	10	\$64.17	100%	85%	\$0.18	40
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	57	10	\$64.17	100%	85%	\$0.16	31
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	57	10	\$64.17	100%	85%	\$0.16	11
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	50	10	\$64.17	100%	85%	\$0.18	19
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	50	10	\$64.17	100%	85%	\$0.18	7
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	1203	10	\$1,550.00	100%	85%	\$0.18	1,726
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	1203	10	\$1,550.00	100%	85%	\$0.18	634
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	1368	10	\$1,550.00	100%	85%	\$0.16	427
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	1368	10	\$1,550.00	100%	85%	\$0.16	133
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	28	10	\$36.20	73%	85%	\$0.18	3
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	28	10	\$36.20	73%	85%	\$0.18	1
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	32	10	\$36.20	73%	85%	\$0.15	3
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	32	10	\$36.20	73%	85%	\$0.15	1

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	28	10	\$36.20	73%	85%	\$0.17	3
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	28	10	\$36.20	73%	85%	\$0.17	1
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	54	10	\$69.11	73%	85%	\$0.18	0
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	54	10	\$69.11	73%	85%	\$0.18	0
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	61	10	\$69.11	73%	85%	\$0.15	0
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	61	10	\$69.11	73%	85%	\$0.15	0
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	54	10	\$69.11	73%	85%	\$0.18	0
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	54	10	\$69.11	73%	85%	\$0.18	0
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Floating Condenser Head Pressure Controls	Floating Condenser Head Pressure Controls	No Floating Condenser Head Pressure Controls	Existing	0	22159	15	\$7,538.71	50%	81%	\$0.03	3,116
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Floating Condenser Head Pressure Controls	Floating Condenser Head Pressure Controls	No Floating Condenser Head Pressure Controls	New	0	22159	15	\$7,538.71	50%	81%	\$0.03	1,129
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Floating Condenser Head Pressure Controls	Floating Condenser Head Pressure Controls	No Floating Condenser Head Pressure Controls	Existing	0	81	15	\$27.72	50%	81%	\$0.03	159
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Floating Condenser Head Pressure Controls	Floating Condenser Head Pressure Controls	No Floating Condenser Head Pressure Controls	New	0	81	15	\$27.72	50%	81%	\$0.03	92
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	Existing	0	152	8	\$36.39	35%	85%	\$0.03	9
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	New	0	152	8	\$36.39	35%	85%	\$0.03	3
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	Existing	0	12	8	\$2.76	25%	85%	\$0.03	1
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	New	0	12	8	\$2.76	25%	85%	\$0.03	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						watt at idle										
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	Existing	0	37	8	\$8.86	55%	85%	\$0.03	1
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	New	0	37	8	\$8.86	55%	85%	\$0.03	0
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	Existing	0	37	8	\$8.86	35%	85%	\$0.03	67
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	New	0	37	8	\$8.86	35%	85%	\$0.03	23
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	Existing	0	1143	8	\$272.85	70%	85%	\$0.03	537
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	New	0	1143	8	\$272.85	70%	85%	\$0.03	175
Electric	Energy Efficiency	School	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	Existing	0	17	8	\$4.12	35%	85%	\$0.03	2
Electric	Energy Efficiency	School	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	New	0	17	8	\$4.12	35%	85%	\$0.03	1
Electric	Energy Efficiency	University	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	Existing	0	33	8	\$7.87	35%	85%	\$0.03	2
Electric	Energy Efficiency	University	Cooking	Retrofit	Fryers - New CEE Efficient Electric Deep Fat Fryers	15 inch width Deep Fryer CEE 2006 rating: 80% under heavy load, Less than 1000 watt at idle	15 inch width standard electric deep fat fryers	New	0	33	8	\$7.87	35%	85%	\$0.03	1
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	New	0	48	12	\$586.98	95%	77%	\$1.72	5
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	Existing	0	42	12	\$603.90	95%	77%	\$2.02	26
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	New	0	42	12	\$603.90	95%	77%	\$2.02	19
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	New	0	8	12	\$187.31	95%	77%	\$3.30	23
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	New	0	4	12	\$55.20	95%	77%	\$2.02	4
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	Existing	0	53	12	\$756.86	95%	77%	\$2.02	6

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	New	0	53	12	\$756.86	95%	77%	\$2.02	14
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	Existing	0	56	12	\$792.23	95%	77%	\$2.02	4
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Glass Door ENERGY STAR Refrigerators/Freezers	Glass Door ENERGY STAR Refrigerators/Freezers	Standard Glass Doors	New	0	56	12	\$792.23	95%	77%	\$2.02	5
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	115	40	\$141,183.47	75%	98%	\$123.17	150
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	47	40	\$141,183.47	75%	98%	\$302.26	28
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	177	40	\$141,183.47	75%	98%	\$80.11	50
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	72	40	\$141,183.47	75%	98%	\$197.35	9
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	292	40	\$406,747.61	75%	98%	\$140.05	29
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	202	40	\$406,747.61	75%	98%	\$202.61	9
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	778	40	\$406,747.61	75%	98%	\$52.65	18
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	232	40	\$406,747.61	75%	98%	\$176.79	2
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	171	40	\$154,094.96	75%	98%	\$90.74	64
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	37	40	\$154,094.96	75%	98%	\$422.21	6
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	328	40	\$154,094.96	75%	98%	\$47.29	17
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	115	40	\$154,094.96	75%	98%	\$135.06	2
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	172	40	\$154,094.96	75%	98%	\$90.17	23
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	31	40	\$154,094.96	75%	98%	\$495.59	2
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	156	40	\$95,671.89	75%	98%	\$61.86	9
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	41	40	\$95,671.89	75%	98%	\$236.42	1
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	354	40	\$95,671.89	75%	98%	\$27.22	36
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	149	40	\$95,671.89	75%	98%	\$64.78	6
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	156	40	\$95,671.89	75%	98%	\$61.84	12
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	35	40	\$95,671.89	75%	98%	\$277.57	1
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	126	40	\$127,857.73	75%	98%	\$102.14	291
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	37	40	\$127,857.73	75%	98%	\$348.13	38
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	247	40	\$127,857.73	75%	98%	\$52.02	437
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	88	40	\$127,857.73	75%	98%	\$145.78	67
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	176	40	\$127,857.73	75%	98%	\$73.07	183

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	45	40	\$127,857.73	75%	98%	\$284.41	19
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	118	40	\$147,425.31	75%	98%	\$126.06	158
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	43	40	\$147,425.31	75%	98%	\$343.66	26
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	192	40	\$147,425.31	75%	98%	\$77.27	80
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	72	40	\$147,425.31	75%	98%	\$205.38	11
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	116	40	\$147,425.31	75%	98%	\$127.88	29
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	37	40	\$147,425.31	75%	98%	\$403.49	4
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	77	40	\$41,475.09	75%	98%	\$54.49	67
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	24	40	\$41,475.09	75%	98%	\$176.70	8
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	91	40	\$41,475.09	75%	98%	\$46.00	20
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	30	40	\$41,475.09	75%	98%	\$140.80	2
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	97	40	\$699,771.51	75%	98%	\$728.05	10
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	38	40	\$699,771.51	75%	98%	\$1,835.83	2
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	767	40	\$699,771.51	75%	98%	\$91.84	84
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	272	40	\$699,771.51	75%	98%	\$259.34	11
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	106	40	\$699,771.51	75%	98%	\$667.62	9
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	38	40	\$699,771.51	75%	98%	\$1,873.82	1
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	101	40	\$326,482.54	75%	98%	\$324.51	1
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	40	40	\$326,482.54	75%	98%	\$818.28	0
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	803	40	\$326,482.54	75%	98%	\$40.92	2
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	284	40	\$326,482.54	75%	98%	\$115.58	0
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	110	40	\$326,482.54	75%	98%	\$297.58	0
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	39	40	\$326,482.54	75%	98%	\$835.21	0
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	61	40	\$798,784.14	75%	98%	\$1,325.21	6
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	60	40	\$798,784.14	75%	98%	\$1,330.05	2
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	235	40	\$798,784.14	75%	98%	\$342.56	10
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	141	40	\$798,784.14	75%	98%	\$569.44	2
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	Existing	0	60	40	\$798,784.14	75%	98%	\$1,342.48	1
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Green Roof	Vegetation on Roof	Standard Dark Colored Roof	New	0	52	40	\$798,784.14	75%	98%	\$1,561.63	0



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	Existing	0	322	12	\$113.38	95%	35%	\$0.04	25
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	New	0	322	12	\$113.38	95%	35%	\$0.04	8
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	Existing	0	65	12	\$22.93	95%	35%	\$0.03	13
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	New	0	65	12	\$22.93	95%	35%	\$0.03	4
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	Existing	0	78	12	\$27.60	95%	35%	\$0.04	2
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	New	0	78	12	\$27.60	95%	35%	\$0.04	1
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	Existing	0	78	12	\$27.60	95%	35%	\$0.04	165
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	New	0	78	12	\$27.60	95%	35%	\$0.04	54
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	Existing	0	1135	12	\$400.00	95%	35%	\$0.04	299
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	New	0	1135	12	\$400.00	95%	35%	\$0.04	97
Electric	Energy Efficiency	School	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	Existing	0	27	12	\$9.34	95%	35%	\$0.03	5
Electric	Energy Efficiency	School	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	New	0	27	12	\$9.34	95%	35%	\$0.03	2
Electric	Energy Efficiency	University	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	Existing	0	51	12	\$17.83	95%	35%	\$0.03	4
Electric	Energy Efficiency	University	Cooking	Retrofit	Griddle	70% cooking efficiency	Non ENERGY STAR	New	0	51	12	\$17.83	95%	35%	\$0.03	1
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	0	862	10	\$228.30	19%	55%	\$0.03	7
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	0	174	10	\$46.17	7%	55%	\$0.02	1
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	0	210	10	\$55.58	19%	55%	\$0.03	0
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	0	210	10	\$55.58	7%	55%	\$0.03	17
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	0	3040	10	\$805.45	40%	55%	\$0.03	507
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	0	3040	10	\$805.45	40%	55%	\$0.03	170
Electric	Energy Efficiency	School	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	0	71	10	\$18.81	26%	55%	\$0.03	2
Electric	Energy Efficiency	University	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	0	136	10	\$35.91	26%	55%	\$0.03	1
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	Existing	0	7752	10	\$7,518.61	85%	72%	\$0.14	1,418
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	New	0	7752	10	\$7,518.61	85%	72%	\$0.14	569
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	Existing	0	303	10	\$97.93	85%	72%	\$0.04	285
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	New	0	303	10	\$97.93	85%	72%	\$0.04	107
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	Existing	0	56	10	\$27.65	85%	72%	\$0.06	120
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	New	0	56	10	\$27.65	85%	72%	\$0.06	81

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	Existing	0	755	10	\$221.78	85%	72%	\$0.03	1,685
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	New	0	755	10	\$221.78	85%	72%	\$0.03	624
Electric	Energy Efficiency	School	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	Existing	0	897	10	\$308.19	85%	72%	\$0.04	493
Electric	Energy Efficiency	School	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	New	0	897	10	\$308.19	85%	72%	\$0.04	179
Electric	Energy Efficiency	University	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	Existing	0	938	10	\$322.58	85%	72%	\$0.04	190
Electric	Energy Efficiency	University	Refrigeration	Retrofit	High-Efficiency Compressor	High-Efficiency Compressor (15% More Efficient)	Standard Compressor, 40% Efficiency	New	0	938	10	\$322.58	85%	72%	\$0.04	68
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	Existing	0	262	20	\$146.59	55%	54%	\$0.05	13
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	New	0	262	20	\$146.59	55%	54%	\$0.05	6
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	New	0	53	20	\$29.65	15%	54%	\$0.05	1
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	New	0	64	20	\$35.69	55%	54%	\$0.05	0
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	Existing	0	38	20	\$21.41	15%	54%	\$0.05	7
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	New	0	38	20	\$21.41	15%	54%	\$0.05	6
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	Existing	0	923	20	\$517.17	35%	54%	\$0.05	134
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	New	0	923	20	\$517.17	35%	54%	\$0.05	45
Electric	Energy Efficiency	School	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	Existing	0	22	20	\$12.08	75%	54%	\$0.05	1
Electric	Energy Efficiency	School	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	New	0	22	20	\$12.08	75%	54%	\$0.05	2
Electric	Energy Efficiency	University	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	Existing	0	41	20	\$23.06	75%	54%	\$0.05	2
Electric	Energy Efficiency	University	Cooking	Retrofit	Hot Food Holding Cabinet	ENERGY STAR Hot Food Holding Cabinet	Non ENERGY STAR Hot Food Holding Cabinet	New	0	41	20	\$23.06	75%	54%	\$0.05	1
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Hotel Occupancy Control System	Includes multiple hotel control schemes including: Key card system, room occupancy sensors, and front desk control to control room HVAC and lighting during non-occupied periods	325 sqft room, \$100/room; No HVAC or lighting occupancy controls	New	0	483	15	\$15,556.15	60%	97%	\$4.08	9
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Hotel Occupancy Control System	Includes multiple hotel control schemes including: Key card system, room occupancy sensors, and front desk control to control room HVAC and lighting during	325 sqft room, \$100/room; No HVAC or lighting occupancy controls	New	0	1764	15	\$15,556.15	60%	97%	\$1.10	60

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						non-occupied periods										
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	Existing	0	1096	8	\$9.00	100%	86%	-\$0.01	389
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	New	0	1096	8	\$9.00	100%	86%	-\$0.01	128
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	Existing	0	61	8	\$0.50	100%	86%	-\$0.01	97
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	New	0	61	8	\$0.50	100%	86%	-\$0.01	33
Electric	Energy Efficiency	Hotel Motel	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	Existing	0	365	8	\$3.00	100%	86%	-\$0.01	273
Electric	Energy Efficiency	Hotel Motel	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	New	0	365	8	\$3.00	100%	86%	-\$0.01	89
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	Existing	0	61	8	\$0.50	100%	86%	-\$0.01	609
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	New	0	61	8	\$0.50	100%	86%	-\$0.01	201
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	Existing	0	1036	8	\$8.50	100%	86%	-\$0.01	3,974
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	New	0	1036	8	\$8.50	100%	86%	-\$0.01	1,291
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	Existing	0	914	8	\$7.50	100%	86%	-\$0.01	880
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	New	0	914	8	\$7.50	100%	86%	-\$0.01	287
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	Existing	0	914	8	\$7.50	100%	86%	-\$0.01	320
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Ice Maker	High-Efficiency Ice Maker	Standard Ice Maker	New	0	914	8	\$7.50	100%	86%	-\$0.01	104
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1085	13	\$782.39	10%	39%	-\$0.07	125
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	3336	13	\$782.39	10%	39%	\$0.01	74
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	2749	13	\$1,546.21	10%	39%	-\$0.36	23
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	14622	13	\$1,546.21	10%	39%	\$0.00	26
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1607	13	\$1,070.63	10%	39%	-\$0.65	52
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	6167	13	\$1,070.63	10%	39%	\$0.01	25
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1617	13	\$1,070.63	10%	39%	-\$0.02	19
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1464	13	\$2,269.19	10%	39%	-\$0.07	7
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	6651	13	\$2,269.19	10%	39%	\$0.03	51
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1464	13	\$2,269.19	10%	39%	-\$0.22	9
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1185	13	\$1,223.44	10%	39%	-\$0.36	248

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	4651	13	\$1,223.44	10%	39%	\$0.01	647
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1656	13	\$1,223.44	10%	39%	-\$0.11	160
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1107	13	\$417.73	10%	39%	-\$0.23	131
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	3611	13	\$417.73	10%	39%	\$0.00	125
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1091	13	\$417.73	10%	39%	-\$0.18	24
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	720	13	\$347.05	10%	39%	\$0.01	57
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1707	13	\$347.05	10%	39%	\$0.01	34
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	910	13	\$3,427.28	10%	39%	-\$1.27	8
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	14419	13	\$3,427.28	10%	39%	\$0.00	129
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	992	13	\$3,427.28	10%	39%	-\$1.08	8
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	952	13	\$3,587.43	10%	39%	-\$1.75	1
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	15093	13	\$3,587.43	10%	39%	\$0.00	3
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	1039	13	\$3,587.43	10%	39%	-\$2.43	0
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	571	13	\$1,036.14	10%	39%	-\$0.51	5
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	4414	13	\$1,036.14	10%	39%	\$0.00	14
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	563	13	\$1,036.14	10%	39%	-\$0.46	1
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$1,121.61	25%	83%	\$95.46	0
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	1	45	\$1,121.61	75%	83%	\$203.30	0
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	245	45	\$1,121.61	25%	83%	\$0.43	21
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	120	45	\$1,121.61	75%	83%	\$0.91	13
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	3	45	\$3,231.34	25%	70%	\$99.96	0
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	2	45	\$3,231.34	75%	70%	\$136.80	0
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	2190	45	\$3,231.34	25%	70%	\$0.13	15
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	204	45	\$3,231.34	75%	70%	\$1.56	1
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	2	45	\$1,224.18	25%	70%	\$58.93	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$1,224.18	75%	70%	\$231.20	0
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	608	45	\$1,224.18	25%	70%	\$0.18	10
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	368	45	\$1,224.18	75%	70%	\$0.31	5
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	2	45	\$1,224.18	25%	70%	\$62.56	0
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$1,224.18	75%	70%	\$307.67	0
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$760.06	25%	70%	\$12.29	0
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$760.06	75%	70%	\$83.74	0
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	597	45	\$760.06	25%	70%	\$0.11	19
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	386	45	\$760.06	75%	70%	\$0.18	12
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$760.06	25%	70%	\$38.16	0
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$760.06	75%	70%	\$157.53	0
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$1,015.76	25%	50%	\$58.92	0
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$1,015.76	75%	50%	\$218.10	0
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	433	45	\$1,015.76	25%	50%	\$0.21	171
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	216	45	\$1,015.76	75%	50%	\$0.45	88
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	2	45	\$1,015.76	25%	50%	\$38.70	0
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	1	45	\$1,015.76	75%	50%	\$179.32	0
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$1,171.20	25%	70%	\$84.55	0
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$1,171.20	75%	70%	\$223.35	0
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	336	45	\$1,171.20	25%	70%	\$0.33	36
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	164	45	\$1,171.20	75%	70%	\$0.69	18
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$1,171.20	25%	70%	\$85.69	0
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$1,171.20	75%	70%	\$263.21	0
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$329.50	25%	83%	\$43.29	0
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	0	45	\$329.50	75%	83%	\$118.81	0
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	65	45	\$329.50	25%	83%	\$0.49	3
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	45	45	\$329.50	75%	83%	\$0.72	3
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1852	45	\$5,559.24	25%	70%	\$0.27	62
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	796	45	\$5,559.24	75%	70%	\$0.66	24

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1938	45	\$2,593.70	25%	70%	\$0.10	1
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	833	45	\$2,593.70	75%	70%	\$0.28	1
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	1	45	\$6,345.83	75%	70%	\$901.26	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	788	45	\$6,345.83	25%	70%	\$0.77	10
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	449	45	\$6,345.83	75%	70%	\$1.37	6
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1	45	\$6,345.83	25%	70%	\$965.09	0
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	1	45	\$6,345.83	75%	70%	\$1,024.57	0
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$1,121.61	25%	98%	\$67.68	0
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1	45	\$1,121.61	75%	98%	\$171.96	0
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	91	45	\$1,121.61	25%	98%	\$1.21	9
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	45	45	\$1,121.61	75%	98%	\$2.48	6
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	3	45	\$3,231.36	25%	85%	\$27.43	0
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	2	45	\$3,231.36	75%	85%	\$118.38	0
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1273	45	\$3,231.36	25%	85%	\$0.24	9
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	50	45	\$3,231.36	75%	85%	\$6.40	0
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	2	45	\$1,224.19	25%	85%	-\$76.81	0
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$1,224.19	75%	85%	-\$276.60	0
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	352	45	\$1,224.19	25%	85%	\$0.33	6
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	252	45	\$1,224.19	75%	85%	\$0.47	4
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	2	45	\$1,224.19	25%	85%	\$55.52	0
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$1,224.19	75%	85%	\$275.87	0
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$760.04	25%	85%	\$13.59	0
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$760.04	75%	85%	\$86.36	0
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	426	45	\$760.04	25%	85%	\$0.16	17
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	294	45	\$760.04	75%	85%	\$0.24	11
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$760.04	25%	85%	-\$21.34	0
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$760.04	75%	85%	-\$0.44	0
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$1,015.74	25%	65%	\$13.99	1
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$1,015.74	75%	65%	\$155.75	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	260	45	\$1,015.74	25%	65%	\$0.37	115
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	137	45	\$1,015.74	75%	65%	\$0.72	72
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	2	45	\$1,015.74	25%	65%	\$29.50	0
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1	45	\$1,015.74	75%	65%	\$164.24	0
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$1,171.20	25%	85%	\$55.27	0
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$1,171.20	75%	85%	\$189.72	0
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	144	45	\$1,171.20	25%	85%	\$0.79	17
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	73	45	\$1,171.20	75%	85%	\$1.57	10
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$1,171.20	25%	85%	\$64.66	0
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$1,171.20	75%	85%	\$235.10	0
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$329.48	25%	98%	\$35.44	0
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	0	45	\$329.48	75%	98%	\$103.22	0
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	19	45	\$329.48	25%	98%	\$1.75	1
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	17	45	\$329.48	75%	98%	\$1.96	1
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	2572	45	\$5,559.24	25%	85%	\$0.19	109
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1106	45	\$5,559.24	75%	85%	\$0.47	41
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	2692	45	\$2,593.70	25%	85%	\$0.07	2
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1157	45	\$2,593.70	75%	85%	\$0.19	1
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$6,345.83	25%	85%	\$988.65	0
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1	45	\$6,345.83	75%	85%	\$866.89	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	514	45	\$6,345.83	25%	85%	\$1.19	7
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	238	45	\$6,345.83	75%	85%	\$2.61	4
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1	45	\$6,345.83	25%	85%	\$970.24	0
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1	45	\$6,345.83	75%	85%	\$1,026.20	0
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	99	45	\$8,202.62	25%	85%	\$3.93	37
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	2528	45	\$8,202.62	25%	85%	\$0.30	251
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	250	45	\$23,631.63	25%	10%	-\$1.63	1
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	21879	45	\$23,631.63	25%	10%	\$0.09	23
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	73	45	\$8,952.76	25%	13%	-\$15.33	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	4513	45	\$8,952.76	25%	13%	\$0.18	14
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	74	45	\$8,952.76	25%	13%	\$8.49	0
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	67	45	\$5,558.44	25%	25%	\$1.42	0
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	4427	45	\$5,558.44	25%	25%	\$0.11	52
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	67	45	\$5,558.44	25%	25%	-\$4.87	1
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	54	45	\$7,428.40	25%	4%	\$0.83	3
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	3216	45	\$7,428.40	25%	4%	\$0.21	104
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	76	45	\$7,428.40	25%	4%	\$4.09	1
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	51	45	\$8,565.26	25%	30%	\$7.86	7
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	2506	45	\$8,565.26	25%	30%	\$0.32	122
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	50	45	\$8,565.26	25%	30%	\$9.52	1
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	33	45	\$2,409.66	25%	85%	\$5.47	8
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	505	45	\$2,409.66	25%	85%	\$0.46	33
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	88704	45	\$40,656.02	25%	15%	\$0.02	767
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	92849	45	\$18,968.30	25%	13%	-\$0.01	14
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	52	45	\$46,408.56	25%	10%	\$74.35	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	7835	45	\$46,408.56	25%	10%	\$0.55	16
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	51	45	\$46,408.56	25%	10%	\$71.47	0
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	911	20	\$2,834.63	75%	59%	\$0.29	1,004
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	1401	20	\$2,834.63	75%	59%	\$0.21	332
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	2309	20	\$7,887.68	75%	60%	\$0.23	195
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	6141	20	\$7,887.68	75%	60%	\$0.13	116
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	1350	20	\$4,190.34	75%	60%	\$0.12	394
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	2590	20	\$4,190.34	75%	60%	\$0.16	112
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	1230	20	\$4,313.57	75%	60%	\$0.25	59
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	2793	20	\$4,313.57	75%	60%	\$0.15	236
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	995	20	\$3,820.59	75%	59%	\$0.25	1,879
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	1954	20	\$3,820.59	75%	59%	\$0.20	2,772
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	930	20	\$2,957.88	75%	59%	\$0.25	1,027



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	1517	20	\$2,957.88	75%	59%	\$0.20	523
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	605	20	\$862.71	75%	56%	\$0.14	441
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	717	20	\$862.71	75%	56%	\$0.12	138
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	764	20	\$13,187.21	75%	55%	\$1.26	58
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	6056	20	\$13,187.21	75%	55%	\$0.21	499
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	800	20	\$13,803.44	75%	55%	\$0.94	5
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	6339	20	\$13,803.44	75%	55%	\$0.21	11
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	479	20	\$14,912.65	75%	58%	\$3.22	41
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	1854	20	\$14,912.65	75%	58%	\$0.87	59
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	887	45	\$10,918.19	35%	90%	\$1.20	108
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	16618	45	\$31,455.14	35%	45%	\$0.17	108
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	2019	45	\$11,916.68	35%	35%	\$0.57	18
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	7707	45	\$7,398.62	35%	45%	\$0.08	237
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	3118	45	\$9,887.66	35%	15%	\$0.29	446
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	2174	45	\$11,400.89	35%	50%	\$0.50	242
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	68	45	\$3,207.40	35%	90%	\$4.70	6
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	31446	45	\$54,115.67	35%	35%	\$0.14	806
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	25135	45	\$25,247.98	35%	35%	\$0.07	13
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	9677	45	\$61,772.64	35%	45%	\$0.60	120
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	175	45	\$1,788.32	35%	90%	\$0.99	22
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	86	45	\$1,788.32	35%	90%	\$2.05	5
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	3238	45	\$5,152.14	35%	45%	\$0.14	21
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	40	45	\$5,152.14	35%	45%	\$12.70	0
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	831	45	\$1,951.87	35%	35%	\$0.21	8
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	663	45	\$1,951.87	35%	35%	\$0.27	2
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	1097	45	\$1,211.85	35%	45%	\$0.09	33
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	820	45	\$1,211.85	35%	45%	\$0.13	8
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	611	45	\$1,619.53	35%	15%	\$0.24	101
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	339	45	\$1,619.53	35%	15%	\$0.45	19

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	315	45	\$1,867.38	35%	50%	\$0.57	32
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	164	45	\$1,867.38	35%	50%	\$1.11	6
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	15	45	\$525.35	35%	90%	\$3.57	1
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	30	45	\$525.35	35%	90%	\$1.73	1
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	6111	45	\$8,863.77	35%	35%	\$0.11	157
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	2534	45	\$8,863.77	35%	35%	\$0.32	18
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	4886	45	\$4,135.45	35%	35%	\$0.05	3
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	2042	45	\$4,135.45	35%	35%	\$0.17	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	1352	45	\$10,117.93	35%	45%	\$0.71	16
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	593	45	\$10,117.93	35%	45%	\$1.66	2
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	1101	45	\$8,787.76	10%	35%	\$0.77	15
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	18074	45	\$22,153.46	10%	35%	\$0.11	27
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	6904	45	\$9,105.59	10%	35%	\$0.11	24
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	14787	45	\$14,308.63	10%	35%	\$0.08	99
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	5627	45	\$13,364.83	10%	35%	\$0.21	637
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	1901	45	\$6,977.60	10%	35%	\$0.35	43
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	145	45	\$3,663.90	10%	35%	\$2.51	2
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	54624	45	\$16,486.32	10%	35%	\$0.00	449
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	57177	45	\$17,256.71	10%	35%	\$0.00	9
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	7187	45	\$36,252.27	10%	35%	\$0.47	20
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	1073	30	\$1,725.00	10%	95%	\$0.11	103
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	1643	30	\$1,725.00	10%	95%	\$0.09	29
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	4611	30	\$4,800.00	10%	95%	\$0.07	30
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	5285	30	\$4,800.00	10%	95%	\$0.08	6
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	838	30	\$2,550.00	10%	95%	-\$0.51	23
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	2621	30	\$2,550.00	10%	95%	\$0.08	7
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	930	30	\$2,625.00	10%	95%	\$0.01	4

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	3392	30	\$2,625.00	10%	95%	\$0.06	20
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	844	30	\$2,325.00	10%	95%	\$0.09	147
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	2014	30	\$2,325.00	10%	95%	\$0.10	217
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	985	30	\$1,800.00	10%	95%	\$0.10	89
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	1649	30	\$1,800.00	10%	95%	\$0.10	44
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	539	30	\$525.00	10%	95%	\$0.07	36
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	677	30	\$525.00	10%	95%	\$0.07	11
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	876	30	\$8,025.00	10%	95%	\$0.16	6
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	6197	30	\$8,025.00	10%	95%	\$0.11	43
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	917	30	\$8,400.00	10%	95%	\$0.06	1
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	6487	30	\$8,400.00	10%	95%	\$0.11	1
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	1380	30	\$9,075.00	10%	95%	\$0.59	8
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	3222	30	\$9,075.00	10%	95%	\$0.26	8
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Low Pressure Distribution Complex HVAC	Low Pressure Distribution Complex HVAC	VAV/CV	New	0	8625	50	\$25,300.00	8%	98%	\$0.27	1,185
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Low Pressure Distribution Complex HVAC	Low Pressure Distribution Complex HVAC	VAV/CV	New	0	12750	50	\$37,400.00	24%	98%	\$0.27	1,523
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Low Pressure Distribution Complex HVAC	Low Pressure Distribution Complex HVAC	VAV/CV	New	0	13125	50	\$38,500.00	8%	98%	\$0.27	229
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Low Pressure Distribution Complex HVAC	Low Pressure Distribution Complex HVAC	VAV/CV	New	0	13950	50	\$34,100.00	17%	98%	\$0.22	8,654
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Low Pressure Distribution Complex HVAC	Low Pressure Distribution Complex HVAC	VAV/CV	New	0	9000	50	\$26,400.00	16%	98%	\$0.27	3,902
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Low Pressure Distribution Complex HVAC	Low Pressure Distribution Complex HVAC	VAV/CV	New	0	40125	50	\$117,700.00	15%	98%	\$0.27	1,798
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Low Pressure Distribution Complex HVAC	Low Pressure Distribution Complex HVAC	VAV/CV	New	0	42000	50	\$123,200.00	15%	98%	\$0.27	664
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	44	9	\$3.89	95%	25%	\$0.00	22
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	41	9	\$3.89	95%	25%	\$0.00	22
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	130	9	\$10.82	95%	25%	\$0.00	2
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	122	9	\$10.82	95%	25%	\$0.00	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	320	9	\$14.37	95%	25%	-\$0.01	31
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	300	9	\$14.37	95%	25%	-\$0.01	30
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	407	9	\$59.15	95%	25%	\$0.01	15
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	381	9	\$59.15	95%	25%	\$0.01	14
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	97	9	\$5.24	95%	25%	-\$0.01	130
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	91	9	\$5.24	95%	25%	-\$0.01	126
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	61	9	\$4.06	95%	25%	\$0.00	46
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	57	9	\$4.06	95%	25%	\$0.00	44
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	413	9	\$3.38	95%	25%	-\$0.01	74
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	387	9	\$3.38	95%	25%	-\$0.01	71
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	1077	9	\$18.08	95%	25%	-\$0.01	43
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	1010	9	\$18.08	95%	25%	-\$0.01	42
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	1127	9	\$18.93	95%	25%	-\$0.01	16
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	1057	9	\$18.93	95%	25%	-\$0.01	16
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	161	9	\$4.09	95%	25%	-\$0.01	24
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	0	151	9	\$4.09	95%	25%	-\$0.01	23
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	645	4	\$195.00	95%	74%	\$0.08	27
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	645	4	\$195.00	95%	74%	\$0.08	17
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	645	4	\$195.00	95%	74%	\$0.08	28
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	645	4	\$195.00	95%	74%	\$0.08	8
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	129	4	\$39.00	95%	83%	\$0.07	41
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	129	4	\$39.00	95%	83%	\$0.07	26
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	129	4	\$39.00	95%	83%	\$0.07	42
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	129	4	\$39.00	95%	83%	\$0.07	12
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	645	4	\$195.00	95%	93%	\$0.08	85
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	645	4	\$195.00	95%	93%	\$0.08	54
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	645	4	\$195.00	95%	93%	\$0.08	87
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	645	4	\$195.00	95%	93%	\$0.08	25
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	430	4	\$130.00	95%	93%	\$0.07	1,193

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	430	4	\$130.00	95%	93%	\$0.07	759
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	430	4	\$130.00	95%	93%	\$0.07	1,228
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	430	4	\$130.00	95%	93%	\$0.07	355
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	817	4	\$247.00	95%	46%	\$0.08	271
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	817	4	\$247.00	95%	46%	\$0.08	172
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	817	4	\$247.00	95%	46%	\$0.08	278
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	817	4	\$247.00	95%	46%	\$0.08	81
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	774	4	\$234.00	95%	65%	\$0.08	80
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	774	4	\$234.00	95%	65%	\$0.08	51
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	774	4	\$234.00	95%	65%	\$0.08	82
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	774	4	\$234.00	95%	65%	\$0.08	24
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	774	4	\$234.00	95%	65%	\$0.08	29
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	774	4	\$234.00	95%	65%	\$0.08	19
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	0	774	4	\$234.00	95%	65%	\$0.08	30
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	0	774	4	\$234.00	95%	65%	\$0.08	9
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	57	10	\$51.48	95%	35%	\$0.12	8
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	120	10	\$51.48	95%	35%	\$0.05	17
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	1642	10	\$1,059.80	95%	35%	\$0.09	82
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	3418	10	\$1,059.80	95%	35%	\$0.03	176
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	10	10	\$11.74	95%	35%	\$0.17	18
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	20	10	\$11.74	95%	35%	\$0.07	39
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	8	10	\$9.08	95%	35%	\$0.17	8
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	16	10	\$9.08	95%	35%	\$0.07	17
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	263	10	\$289.28	95%	35%	\$0.16	15
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	547	10	\$289.28	95%	35%	\$0.07	32
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	275	10	\$302.80	95%	35%	\$0.16	6
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	0	573	10	\$302.80	95%	35%	\$0.07	12
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	434	15	\$15.90	95%	76%	-\$0.01	1,865
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	353	15	\$15.90	95%	76%	-\$0.01	425

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	953	15	\$44.24	95%	76%	-\$0.01	202
Electric	Energy Efficiency	Grocery	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	1143	15	\$44.24	95%	76%	-\$0.01	81
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	1270	15	\$23.50	95%	76%	-\$0.01	1,611
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	991	15	\$23.50	95%	76%	-\$0.01	345
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	789	15	\$24.20	95%	76%	-\$0.01	430
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	492	15	\$24.20	95%	76%	-\$0.01	75
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	330	15	\$10.72	95%	76%	-\$0.01	2,897
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	278	15	\$10.72	95%	76%	-\$0.01	710
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	354	15	\$16.59	95%	76%	-\$0.01	2,390
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	292	15	\$16.59	95%	76%	-\$0.01	554
Electric	Energy Efficiency	Restaurant	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	174	15	\$4.84	95%	76%	-\$0.01	461
Electric	Energy Efficiency	Restaurant	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	138	15	\$4.84	95%	76%	-\$0.01	107
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	986	15	\$36.98	95%	76%	-\$0.01	751
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	664	15	\$36.98	95%	76%	-\$0.01	144
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	1032	15	\$38.71	95%	76%	-\$0.01	279
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	695	15	\$38.71	95%	76%	-\$0.01	53
Electric	Energy Efficiency	Warehouse	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	Existing	0	489	15	\$83.65	95%	76%	\$0.01	281
Electric	Energy Efficiency	Warehouse	Ventilation and Circulation	Retrofit	Motor - CEE Premium-Efficiency Plus	CEE PE+ Motor for HVAC Applications	NEMA Efficiency Motors	New	0	475	15	\$83.65	95%	76%	\$0.01	83
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	7961	20	\$2,127.84	65%	75%	\$0.01	23,466
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	6480	20	\$2,127.84	65%	75%	\$0.02	6,324
Electric	Energy Efficiency	Grocery	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	17484	20	\$3,897.69	65%	75%	\$0.01	2,807
Electric	Energy Efficiency	Grocery	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	20960	20	\$3,897.69	65%	75%	\$0.01	1,203
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	23299	20	\$2,602.68	65%	75%	\$0.00	20,072
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	18166	20	\$2,602.68	65%	75%	\$0.00	5,136
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	14474	20	\$2,645.85	65%	75%	\$0.01	5,409
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	9015	20	\$2,645.85	65%	75%	\$0.02	1,115
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	6055	20	\$2,473.18	65%	75%	\$0.03	37,238

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	5095	20	\$2,473.18	65%	75%	\$0.04	10,562
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	6497	20	\$2,171.01	65%	75%	\$0.02	30,149
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	5353	20	\$2,171.01	65%	75%	\$0.03	8,241
Electric	Energy Efficiency	Restaurant	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	3185	20	\$1,437.17	65%	75%	\$0.03	5,937
Electric	Energy Efficiency	Restaurant	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	2539	20	\$1,437.17	65%	75%	\$0.05	1,597
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	18075	20	\$5,753.88	65%	75%	\$0.02	9,522
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	12177	20	\$5,753.88	65%	75%	\$0.04	2,138
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	18920	20	\$5,969.71	65%	75%	\$0.02	3,523
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	12746	20	\$5,969.71	65%	75%	\$0.04	789
Electric	Energy Efficiency	Warehouse	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	Existing	0	8963	20	\$6,358.22	65%	75%	\$0.06	3,699
Electric	Energy Efficiency	Warehouse	Ventilation and Circulation	Retrofit	Motor - Pump & Fan System - Variable Speed Control	Pump And Fan System Optimization w/ VSD	No Pump And Fan System VSD Optimization	New	0	8713	20	\$6,358.22	65%	75%	\$0.07	1,234
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	Existing	0	1639	15	\$7,868.42	5%	77%	\$0.59	288
Electric	Energy Efficiency	Dry Goods Retail	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	New	0	1334	15	\$7,868.42	5%	77%	\$0.73	87
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	Existing	0	4797	15	\$11,631.58	8%	77%	\$0.29	403
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	New	0	3740	15	\$11,631.58	8%	77%	\$0.38	110
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	Existing	0	2980	15	\$11,973.68	5%	77%	\$0.50	60
Electric	Energy Efficiency	Hotel Motel	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	New	0	1856	15	\$11,973.68	5%	77%	\$0.81	15
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	Existing	0	1247	15	\$10,605.26	11%	77%	\$1.06	956
Electric	Energy Efficiency	Office	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	New	0	1049	15	\$10,605.26	11%	77%	\$1.27	290
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	Existing	0	1338	15	\$8,210.53	13%	77%	\$0.76	1,012
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	New	0	1102	15	\$8,210.53	13%	77%	\$0.93	282
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	Existing	0	3721	15	\$36,605.26	11%	77%	\$1.23	266
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	New	0	2507	15	\$36,605.26	11%	77%	\$1.84	58
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	Existing	0	3895	15	\$38,315.79	11%	77%	\$1.23	89
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Motor - VAV Box High Efficiency (ECM)	ECM Motor	Standard Efficiency Motor	New	0	2624	15	\$38,315.79	11%	77%	\$1.84	21
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	844	15	\$15,500.00	20%	75%	\$2.33	181

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	2014	15	\$15,500.00	20%	75%	\$0.96	320
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	1033	15	\$15,500.00	20%	75%	\$1.90	113
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	985	15	\$12,000.00	20%	75%	\$1.54	122
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	1649	15	\$12,000.00	20%	75%	\$0.90	53
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	839	15	\$12,000.00	20%	75%	\$1.81	21
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	876	15	\$53,500.00	20%	75%	\$7.75	8
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	6197	15	\$53,500.00	20%	75%	\$1.07	52
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	858	15	\$53,500.00	20%	75%	\$7.91	8
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	917	15	\$56,000.00	20%	75%	\$7.75	1
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	6487	15	\$56,000.00	20%	75%	\$1.07	1
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	898	15	\$56,000.00	20%	75%	\$7.91	0
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	1380	15	\$60,500.00	20%	75%	\$5.56	12
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	3222	15	\$60,500.00	20%	75%	\$2.35	12
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Natural Ventilation	Natural Ventilation Design Reduction in Cooling	None - Standard Ventilation	New	0	1175	15	\$60,500.00	20%	75%	\$6.53	3
Electric	Energy Efficiency	Hospital	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	Existing	0	2204	5	\$269.52	95%	30%	\$0.02	1,000
Electric	Energy Efficiency	Hospital	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	New	0	2204	5	\$269.52	95%	30%	\$0.02	334
Electric	Energy Efficiency	Office	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	Existing	0	3638	5	\$444.84	95%	30%	\$0.02	13,745
Electric	Energy Efficiency	Office	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	New	0	3638	5	\$444.84	95%	30%	\$0.02	4,444
Electric	Energy Efficiency	Other Commercial	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	Existing	0	694	5	\$84.88	95%	30%	\$0.02	1,868
Electric	Energy Efficiency	Other Commercial	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	New	0	694	5	\$84.88	95%	30%	\$0.02	648
Electric	Energy Efficiency	School	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	Existing	0	10151	5	\$1,241.36	95%	30%	\$0.02	2,799
Electric	Energy Efficiency	School	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	New	0	10151	5	\$1,241.36	95%	30%	\$0.02	902
Electric	Energy Efficiency	University	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	Existing	0	10626	5	\$1,299.37	95%	30%	\$0.02	1,069
Electric	Energy Efficiency	University	Computers	Retrofit	Network PC Power Management	Network PC Power Management	No Power Management	New	0	10626	5	\$1,299.37	95%	30%	\$0.02	343
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	Existing	0	20822	5	\$3,123.32	95%	85%	\$0.02	7,064
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	New	0	19842	5	\$2,976.27	95%	85%	\$0.02	2,184



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	Existing	0	271	5	\$40.68	15%	85%	\$0.02	67
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	New	0	331	5	\$49.72	15%	85%	\$0.02	27
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	Existing	0	77	5	\$11.49	5%	85%	\$0.02	39
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	New	0	94	5	\$14.04	5%	85%	\$0.02	15
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	Existing	0	614	5	\$92.13	30%	85%	\$0.02	704
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	New	0	751	5	\$112.60	30%	85%	\$0.02	279
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	Existing	0	853	5	\$128.02	50%	85%	\$0.02	410
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	New	0	853	5	\$128.02	50%	85%	\$0.02	133
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	Existing	0	893	5	\$134.01	50%	85%	\$0.02	156
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Night Covers for Display Cases	Night Covers for Display Cases	No Night Covers	New	0	893	5	\$134.01	50%	85%	\$0.02	51
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	1162	8	\$979.63	45%	75%	\$0.14	2,408
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	1162	8	\$979.63	45%	75%	\$0.14	864
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	4773	8	\$979.63	45%	56%	\$0.02	7,354
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	28	8	\$979.63	45%	56%	\$6.36	1,075
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	6411	8	\$979.63	45%	56%	\$0.01	2,777
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	1682	8	\$979.63	45%	56%	\$0.09	795
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	3058	8	\$2,725.93	45%	75%	\$0.15	301
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	3058	8	\$2,725.93	45%	75%	\$0.15	135
Electric	Energy Efficiency	Grocery	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	20197	8	\$2,725.93	45%	57%	\$0.01	1,653
Electric	Energy Efficiency	Grocery	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	92	8	\$2,725.93	45%	57%	\$5.34	188
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	22026	8	\$2,725.93	45%	57%	\$0.01	580
Electric	Energy Efficiency	Grocery	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	3236	8	\$2,725.93	45%	57%	\$0.14	95
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	794	8	\$1,448.15	90%	75%	\$0.31	832
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	794	8	\$1,448.15	90%	75%	\$0.31	310
Electric	Energy Efficiency	Hospital	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	5631	8	\$1,448.15	90%	42%	\$0.03	3,553
Electric	Energy Efficiency	Hospital	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	4	8	\$1,448.15	90%	42%	\$60.85	38
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	5787	8	\$1,448.15	90%	42%	\$0.03	1,026
Electric	Energy Efficiency	Hospital	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	2281	8	\$1,448.15	90%	42%	\$0.10	533
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	1819	8	\$1,490.75	90%	75%	\$0.13	939

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	1819	8	\$1,490.75	90%	75%	\$0.13	327
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	4126	8	\$1,490.75	90%	58%	\$0.05	1,630
Electric	Energy Efficiency	Hotel Motel	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	5	8	\$1,490.75	90%	58%	\$53.29	37
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	11430	8	\$1,490.75	90%	58%	\$0.01	1,272
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	15041	8	\$1,490.75	90%	58%	\$0.00	2,102
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	609	8	\$1,320.37	90%	75%	\$0.37	4,994
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	609	8	\$1,320.37	90%	75%	\$0.37	1,881
Electric	Energy Efficiency	Office	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	4676	8	\$1,320.37	90%	42%	\$0.03	23,316
Electric	Energy Efficiency	Office	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	6	8	\$1,320.37	90%	42%	\$39.17	602
Electric	Energy Efficiency	Office	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	4619	8	\$1,320.37	90%	42%	\$0.03	6,530
Electric	Energy Efficiency	Office	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	794	8	\$1,320.37	90%	42%	\$0.28	1,183
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	1343	8	\$1,022.22	90%	75%	\$0.12	9,854
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	1343	8	\$1,022.22	90%	75%	\$0.12	3,365
Electric	Energy Efficiency	Other Commercial	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	2398	8	\$1,022.22	90%	52%	\$0.06	11,586
Electric	Energy Efficiency	Other Commercial	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	28	8	\$1,022.22	90%	52%	\$6.56	3,531
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	3484	8	\$1,022.22	90%	52%	\$0.04	4,727
Electric	Energy Efficiency	Other Commercial	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	750	8	\$1,022.22	90%	52%	\$0.23	1,143
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	752	8	\$298.15	45%	75%	\$0.06	1,016
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	752	8	\$298.15	45%	75%	\$0.06	367
Electric	Energy Efficiency	Restaurant	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	1080	8	\$298.15	45%	64%	\$0.04	1,005
Electric	Energy Efficiency	Restaurant	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	3	8	\$298.15	45%	64%	\$21.14	41
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	1846	8	\$298.15	45%	64%	\$0.01	579
Electric	Energy Efficiency	Restaurant	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	1486	8	\$298.15	45%	64%	\$0.02	576
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	2562	8	\$4,557.42	90%	75%	\$0.31	1,710
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	2562	8	\$4,557.42	90%	75%	\$0.31	598
Electric	Energy Efficiency	School	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	10211	8	\$4,557.42	90%	35%	\$0.07	2,909
Electric	Energy Efficiency	School	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	32	8	\$4,557.42	90%	35%	\$25.40	228
Electric	Energy Efficiency	School	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	9732	8	\$4,557.42	90%	35%	\$0.07	837
Electric	Energy Efficiency	School	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	541	8	\$4,557.42	90%	35%	\$1.51	42

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	2681	8	\$4,770.38	90%	75%	\$0.31	660
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	2681	8	\$4,770.38	90%	75%	\$0.31	228
Electric	Energy Efficiency	University	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	8322	8	\$4,770.38	90%	35%	\$0.09	851
Electric	Energy Efficiency	University	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	23	8	\$4,770.38	90%	35%	\$38.17	55
Electric	Energy Efficiency	University	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	10467	8	\$4,770.38	90%	35%	\$0.07	327
Electric	Energy Efficiency	University	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	3111	8	\$4,770.38	90%	35%	\$0.26	144
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	1838	8	\$5,153.71	90%	75%	\$0.49	1,641
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	1838	8	\$5,153.71	90%	75%	\$0.49	591
Electric	Energy Efficiency	Warehouse	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	7331	8	\$5,153.71	90%	50%	\$0.11	4,954
Electric	Energy Efficiency	Warehouse	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	203	8	\$5,153.71	90%	50%	\$4.56	3,618
Electric	Energy Efficiency	Warehouse	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	12443	8	\$5,153.71	90%	50%	\$0.06	2,341
Electric	Energy Efficiency	Warehouse	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	3602	8	\$5,153.71	90%	50%	\$0.24	813
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	Existing	0	2284	13	\$3,050.87	65%	59%	\$0.17	1,590
Electric	Energy Efficiency	Hospital	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	New	0	1781	13	\$3,050.87	65%	59%	\$0.22	402
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	Existing	0	637	13	\$3,050.87	5%	59%	\$0.64	186
Electric	Energy Efficiency	Other Commercial	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	New	0	525	13	\$3,050.87	5%	59%	\$0.78	50
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	Existing	0	1772	13	\$3,050.87	65%	59%	\$0.22	766
Electric	Energy Efficiency	School	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	New	0	1194	13	\$3,050.87	65%	59%	\$0.33	167
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	Existing	0	1855	13	\$3,050.87	65%	59%	\$0.21	283
Electric	Energy Efficiency	University	Ventilation and Circulation	Retrofit	Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	Constant Volume Lab Hood Design	New	0	1250	13	\$3,050.87	65%	59%	\$0.32	62
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Pipe Insulation - Chilled Water	1.5" of Insulation, assuming R-6 (WA State Code)	No Insulation	Existing	0	854	15	\$119.85	65%	45%	\$0.01	76
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Pipe Insulation - Chilled Water	1.5" of Insulation, assuming R-6 (WA State Code)	No Insulation	Existing	0	773	15	\$123.38	65%	45%	\$0.01	33
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Pipe Insulation - Chilled Water	1.5" of Insulation, assuming R-6 (WA State Code)	No Insulation	Existing	0	875	15	\$109.28	65%	45%	\$0.01	627
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Pipe Insulation - Chilled Water	1.5" of Insulation, assuming R-6 (WA State Code)	No Insulation	Existing	0	576	15	\$84.60	65%	45%	\$0.01	93
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Pipe Insulation - Chilled Water	1.5" of Insulation, assuming R-6 (WA State Code)	No Insulation	Existing	0	524	15	\$377.18	65%	45%	\$0.09	29
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Pipe Insulation - Chilled Water	1.5" of Insulation, assuming R-6 (WA State Code)	No Insulation	Existing	0	549	15	\$394.80	65%	45%	\$0.09	1

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Pipe Insulation - Chilled Water	1.5" of Insulation, assuming R-6 (WA State Code)	No Insulation	Existing	0	297	15	\$426.53	65%	45%	\$0.18	4
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	33	12	\$25.44	80%	90%	\$0.09	49
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	31	12	\$25.44	80%	90%	\$0.10	47
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	97	12	\$101.76	80%	90%	\$0.14	4
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	91	12	\$101.76	80%	90%	\$0.15	4
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	240	12	\$147.55	80%	70%	\$0.07	53
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	225	12	\$147.55	80%	70%	\$0.08	50
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	305	12	\$139.92	80%	90%	\$0.05	32
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	286	12	\$139.92	80%	90%	\$0.05	26
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	73	12	\$25.44	80%	30%	\$0.03	95
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	68	12	\$25.44	80%	30%	\$0.04	92
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	46	12	\$27.99	80%	90%	\$0.07	100
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	43	12	\$27.99	80%	90%	\$0.08	97
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	310	12	\$25.44	80%	90%	\$0.00	163
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	290	12	\$25.44	80%	90%	\$0.00	157
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	808	12	\$96.67	80%	8%	\$0.00	8
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	758	12	\$96.67	80%	8%	\$0.01	8
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	845	12	\$101.76	80%	8%	\$0.00	3
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	793	12	\$101.76	80%	8%	\$0.01	3
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	121	12	\$25.44	80%	90%	\$0.01	52
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	0	113	12	\$25.44	80%	90%	\$0.01	51
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	22	4	\$1.73	95%	86%	\$0.01	129
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	22	4	\$1.73	95%	86%	\$0.01	42
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	95	4	\$4.80	95%	86%	\$0.00	32

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	95	4	\$4.80	95%	86%	\$0.00	11
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	180	4	\$2.55	95%	86%	-\$0.01	283
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	180	4	\$2.55	95%	86%	-\$0.01	92
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	41	4	\$2.63	95%	86%	\$0.00	29
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	41	4	\$2.63	95%	86%	\$0.00	9
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	18	4	\$2.33	95%	86%	\$0.02	225
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	18	4	\$2.33	95%	86%	\$0.02	73
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	21	4	\$1.80	95%	86%	\$0.01	200
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	21	4	\$1.80	95%	86%	\$0.01	65
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	13	4	\$0.53	95%	86%	\$0.00	49
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	13	4	\$0.53	95%	86%	\$0.00	16
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	3	4	\$8.03	95%	86%	\$0.73	3
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	3	4	\$8.03	95%	86%	\$0.73	1
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	3	4	\$8.40	95%	86%	\$0.73	1
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	3	4	\$8.40	95%	86%	\$0.73	0
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	Existing	0	46	4	\$9.08	95%	86%	\$0.04	65
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	Power Supply Transformer/Converter	80 Plus	85% efficient power supply (> 51W)	New	0	46	4	\$9.08	95%	86%	\$0.04	21
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1085	10	\$351.92	95%	26%	-\$0.04	790
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	536	10	\$351.92	95%	13%	\$0.01	67
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1668	10	\$351.92	95%	26%	\$0.01	233
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	822	10	\$351.92	95%	13%	\$0.05	19
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	2749	10	\$339.91	95%	31%	-\$0.20	174
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	2306	10	\$339.91	95%	15%	-\$0.03	25
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	7311	10	\$339.91	95%	31%	-\$0.01	98
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	2642	10	\$339.91	95%	15%	\$0.00	6
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1607	10	\$476.65	95%	24%	-\$0.33	304
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	419	10	\$476.65	95%	12%	-\$1.20	14

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	3084	10	\$476.65	95%	24%	\$0.01	69
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	1310	10	\$476.65	95%	12%	\$0.04	4
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1617	10	\$476.65	95%	26%	-\$0.02	121
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	357	10	\$476.65	95%	26%	\$0.03	9
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1464	10	\$790.29	95%	31%	-\$0.06	53
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	465	10	\$790.29	95%	15%	-\$0.02	3
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	3325	10	\$790.29	95%	31%	\$0.02	194
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	1696	10	\$790.29	95%	15%	\$0.05	15
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1464	10	\$790.29	95%	26%	-\$0.14	59
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	396	10	\$790.29	95%	26%	-\$0.25	6
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1185	10	\$523.76	95%	26%	-\$0.19	1,560
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	422	10	\$523.76	95%	13%	-\$0.11	96
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	2326	10	\$523.76	95%	26%	\$0.01	2,034
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	1007	10	\$523.76	95%	13%	\$0.06	138
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1656	10	\$523.76	95%	26%	-\$0.06	1,006
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	516	10	\$523.76	95%	26%	\$0.04	106
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1107	10	\$351.68	95%	28%	-\$0.09	912
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	493	10	\$351.68	95%	14%	-\$0.03	70
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1806	10	\$351.68	95%	28%	\$0.01	431
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	824	10	\$351.68	95%	14%	\$0.05	25
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1091	10	\$351.68	95%	26%	-\$0.07	149
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	420	10	\$351.68	95%	26%	\$0.01	20
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	720	10	\$364.60	95%	25%	\$0.05	347

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	270	10	\$364.60	95%	13%	\$0.16	20
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	853	10	\$364.60	95%	25%	\$0.05	96
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	338	10	\$364.60	95%	13%	\$0.16	5
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	910	10	\$330.32	95%	21%	-\$0.84	37
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	438	10	\$330.32	95%	10%	-\$1.08	3
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	7210	10	\$330.32	95%	21%	-\$0.02	335
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	3099	10	\$330.32	95%	10%	-\$0.01	22
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	992	10	\$330.32	95%	26%	-\$0.73	48
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	429	10	\$330.32	95%	26%	-\$1.40	7
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	952	10	\$741.08	95%	21%	-\$1.01	3
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	458	10	\$741.08	95%	10%	-\$0.92	0
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	7547	10	\$741.08	95%	21%	-\$0.01	7
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	3244	10	\$741.08	95%	10%	\$0.01	0
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1039	10	\$741.08	95%	26%	-\$1.34	2
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	449	10	\$741.08	95%	26%	-\$2.58	0
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	571	10	\$327.24	95%	24%	-\$0.29	27
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	690	10	\$327.24	95%	12%	-\$0.09	6
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	2207	10	\$327.24	95%	24%	-\$0.01	40
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	1611	10	\$327.24	95%	12%	\$0.00	5
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	563	10	\$327.24	95%	26%	-\$0.27	7
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	587	10	\$327.24	95%	26%	-\$0.03	3
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	123	30	\$1,167.25	75%	55%	\$0.99	93
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	61	30	\$1,772.82	75%	55%	\$3.07	20
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	1460	30	\$1,167.25	75%	55%	\$0.06	338

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	719	30	\$1,772.82	75%	55%	\$0.24	52
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	112	30	\$4,794.58	75%	55%	\$4.51	6
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	94	30	\$2,049.44	75%	55%	\$2.29	2
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	2301	30	\$4,794.58	75%	55%	\$0.21	33
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	832	30	\$2,049.44	75%	55%	\$0.25	4
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	124	30	\$3,274.93	75%	55%	\$2.79	26
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	32	30	\$2,200.69	75%	55%	\$7.21	3
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	1827	30	\$3,274.93	75%	55%	\$0.17	71
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	776	30	\$2,200.69	75%	55%	\$0.28	9
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	834	30	\$3,274.93	75%	55%	\$0.41	85
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	184	30	\$2,200.69	75%	55%	\$1.26	7
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	109	30	\$5,122.56	75%	55%	\$4.95	4
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	35	30	\$1,167.25	75%	55%	\$3.55	0
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	1914	30	\$5,122.56	75%	55%	\$0.27	125
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	976	30	\$1,167.25	75%	55%	\$0.11	25
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	733	30	\$5,122.56	75%	55%	\$0.73	38
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	198	30	\$1,167.25	75%	55%	\$0.61	4
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	100	30	\$2,153.60	75%	55%	\$2.27	132
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	36	30	\$4,794.58	75%	55%	\$14.24	21
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	1511	30	\$2,153.60	75%	55%	\$0.13	2,047
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	654	30	\$4,794.58	75%	55%	\$0.75	291
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	936	30	\$2,153.60	75%	55%	\$0.23	726
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	292	30	\$4,794.58	75%	55%	\$1.73	89
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	121	30	\$3,655.40	75%	55%	\$3.20	91
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	54	30	\$2,249.92	75%	55%	\$4.43	18
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	1515	30	\$3,655.40	75%	55%	\$0.24	480
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	692	30	\$2,249.92	75%	55%	\$0.32	62
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	797	30	\$3,655.40	75%	55%	\$0.48	140
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	306	30	\$2,249.92	75%	55%	\$0.77	22



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	269	30	\$3,274.93	75%	55%	\$1.28	134
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	101	30	\$2,249.92	75%	55%	\$2.35	18
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	2455	30	\$3,274.93	75%	55%	\$0.13	459
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	973	30	\$2,249.92	75%	55%	\$0.23	49
Electric	Energy Efficiency	School	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	22	30	\$3,655.40	75%	55%	\$17.38	1
Electric	Energy Efficiency	School	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	11	30	\$3,274.93	75%	55%	\$32.36	0
Electric	Energy Efficiency	School	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	1357	30	\$3,655.40	75%	55%	\$0.26	109
Electric	Energy Efficiency	School	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	583	30	\$3,274.93	75%	55%	\$0.56	14
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	162	30	\$3,655.40	75%	55%	\$2.38	11
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	70	30	\$3,274.93	75%	55%	\$4.93	2
Electric	Energy Efficiency	University	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	22	30	\$2,249.92	75%	55%	\$10.69	0
Electric	Energy Efficiency	University	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	11	30	\$5,122.56	75%	55%	\$50.61	0
Electric	Energy Efficiency	University	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	1357	30	\$2,249.92	75%	55%	\$0.15	2
Electric	Energy Efficiency	University	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	583	30	\$5,122.56	75%	55%	\$0.90	0
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	162	30	\$2,249.92	75%	55%	\$1.46	1
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	70	30	\$5,122.56	75%	55%	\$7.71	0
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	12	30	\$2,049.44	75%	55%	\$17.57	1
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	15	30	\$2,200.69	75%	55%	\$15.60	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	367	30	\$2,049.44	75%	55%	\$0.56	12
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	268	30	\$2,200.69	75%	55%	\$0.83	3
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	Existing	0	82	30	\$2,049.44	75%	55%	\$2.65	2
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	RE - Deciduous Trees	Shade Trees	No Trees	New	0	85	30	\$2,200.69	75%	55%	\$2.73	1
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	2431	30	\$3,566.04	10%	95%	\$0.14	41
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	3172	30	\$9,922.89	10%	95%	\$0.32	3
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	1300	30	\$5,271.54	10%	95%	\$0.41	3
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	2315	30	\$5,426.58	10%	95%	\$0.23	13
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	5801	30	\$4,806.40	10%	95%	\$0.07	642
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	332	30	\$3,721.09	10%	95%	\$1.17	7
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	923	30	\$1,085.31	10%	95%	\$0.11	15

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	2410	30	\$16,589.84	10%	95%	\$0.70	13
Electric	Energy Efficiency	University	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	3044	30	\$17,365.07	10%	95%	\$0.57	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	368	30	\$18,760.47	10%	95%	\$5.36	1
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	202	30	\$184.53	75%	75%	\$0.09	117
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	310	30	\$184.53	75%	75%	\$0.04	33
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	245	30	\$184.53	75%	75%	\$0.07	10
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	281	30	\$184.53	75%	75%	\$0.05	2
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	210	30	\$184.53	75%	75%	\$0.08	34
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	655	30	\$184.53	75%	75%	\$0.01	13
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	179	30	\$184.53	75%	75%	\$0.10	11
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	890	30	\$184.53	75%	75%	\$0.02	21
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	3248	30	\$184.53	75%	75%	-\$0.01	120
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	758	30	\$184.53	75%	75%	\$0.02	24
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	265	30	\$184.53	75%	75%	\$0.07	275
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	632	30	\$184.53	75%	75%	\$0.01	421
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	324	30	\$184.53	75%	75%	\$0.05	156
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	394	30	\$184.53	75%	75%	\$0.04	233
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	659	30	\$184.53	75%	75%	\$0.01	110
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	336	30	\$184.53	75%	75%	\$0.05	36
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	126	30	\$184.53	75%	75%	\$0.15	49
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	158	30	\$184.53	75%	75%	\$0.11	15
Electric	Energy Efficiency	School	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	745	30	\$184.53	75%	75%	\$0.02	31
Electric	Energy Efficiency	School	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	5273	30	\$184.53	75%	75%	-\$0.03	230
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	730	30	\$184.53	75%	75%	\$0.02	28
Electric	Energy Efficiency	University	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	780	30	\$184.53	75%	75%	\$0.02	3
Electric	Energy Efficiency	University	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	5519	30	\$184.53	75%	75%	-\$0.03	5
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	764	30	\$184.53	75%	75%	\$0.02	1
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	671	30	\$184.53	75%	75%	\$0.02	28
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	1567	30	\$184.53	75%	75%	-\$0.02	23

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	RE - Window Overhangs	Overhangs over windows for shading	No window overhangs	New	0	571	30	\$184.53	75%	75%	\$0.03	6
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	3255	7	\$3,105.00	90%	85%	\$0.10	6,871
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	5004	7	\$3,105.00	90%	85%	\$0.10	1,886
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	8247	7	\$8,640.00	90%	85%	-\$0.02	1,256
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	21933	7	\$8,640.00	90%	85%	\$0.06	578
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	4822	7	\$4,590.00	90%	85%	-\$0.19	2,984
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	9251	7	\$4,590.00	90%	85%	\$0.08	579
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	4852	7	\$4,590.00	90%	85%	\$0.13	1,026
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	4392	7	\$4,725.00	90%	85%	\$0.07	369
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	9976	7	\$4,725.00	90%	85%	\$0.08	1,343
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	4393	7	\$4,725.00	90%	85%	-\$0.01	537
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	3555	7	\$4,185.00	90%	85%	-\$0.02	13,946
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	6977	7	\$4,185.00	90%	85%	\$0.10	16,049
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	4968	7	\$4,185.00	90%	85%	\$0.06	7,983
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	3321	7	\$3,240.00	90%	85%	\$0.05	6,939
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	5417	7	\$3,240.00	90%	85%	\$0.10	2,931
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	3274	7	\$3,240.00	90%	85%	\$0.08	1,170
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	2161	7	\$945.00	90%	85%	\$0.05	3,173
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	2560	7	\$945.00	90%	85%	\$0.06	767
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	2729	7	\$14,445.00	90%	85%	\$0.16	330
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	21629	7	\$14,445.00	90%	85%	\$0.10	3,139
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	2976	7	\$14,445.00	90%	85%	\$0.18	401
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	2857	7	\$15,120.00	90%	85%	-\$0.09	3

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	22640	7	\$15,120.00	90%	85%	\$0.10	43
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	3116	7	\$15,120.00	90%	85%	-\$0.49	13
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	1712	7	\$16,335.00	90%	85%	\$1.51	171
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	6621	7	\$16,335.00	90%	85%	\$0.45	302
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	1690	7	\$16,335.00	90%	85%	\$1.56	35
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	Existing	0	52214	3	\$4,102.53	95%	85%	\$0.02	13,924
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	New	0	26107	3	\$4,102.53	80%	90%	\$0.05	2,236
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	Existing	0	605	3	\$47.51	10%	85%	\$0.02	76
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	New	0	302	3	\$47.51	5%	90%	\$0.05	7
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	Existing	0	112	3	\$8.77	5%	85%	\$0.02	5
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	New	0	56	3	\$8.77	5%	90%	\$0.05	6
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	Existing	0	1508	3	\$118.48	10%	85%	\$0.02	444
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	New	0	754	3	\$118.48	5%	90%	\$0.05	43
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	Existing	0	1790	3	\$140.66	10%	85%	\$0.02	130
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	New	0	895	3	\$140.66	5%	90%	\$0.05	12
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	Existing	0	1874	3	\$147.23	10%	85%	\$0.02	50
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Refrigeration Commissioning of New and Existing Buildings	New and Existing Building Refrigeration Commissioning	No Commissioning	New	0	937	3	\$147.23	5%	90%	\$0.05	5
Electric	Energy Efficiency	Dry Goods Retail	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	152	5	\$44.40	25%	100%	\$0.06	225
Electric	Energy Efficiency	Grocery	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	1427	5	\$415.78	25%	100%	\$0.06	125
Electric	Energy Efficiency	Hospital	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	1469	5	\$427.77	25%	100%	\$0.06	592
Electric	Energy Efficiency	Hotel Motel	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	2833	5	\$825.25	25%	100%	\$0.06	520
Electric	Energy Efficiency	Office	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	571	5	\$166.30	25%	100%	\$0.06	1,852
Electric	Energy Efficiency	Other Commercial	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	455	5	\$132.68	25%	100%	\$0.06	1,129

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	134	5	\$39.10	25%	100%	\$0.06	126
Electric	Energy Efficiency	School	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	1840	5	\$536.12	25%	100%	\$0.06	434
Electric	Energy Efficiency	University	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	1927	5	\$561.17	25%	100%	\$0.06	165
Electric	Energy Efficiency	Warehouse	Refrigerator	Retrofit	Residential Refrigerator/Freezer Recycling	Recycling Existing Refrigerator/Freezer	Existing Refrigerator/Freezer	Existing	0	715	5	\$208.32	25%	100%	\$0.06	257
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	Existing	0	7321	10	\$41,197.06	25%	98%	\$0.87	209
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	New	0	1979	10	\$41,197.06	75%	98%	\$3.24	59
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	Existing	0	8281	10	\$36,488.82	25%	98%	\$0.68	3,263
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	New	0	2582	10	\$36,488.82	75%	98%	\$2.19	1,129
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	Existing	0	5456	10	\$28,249.41	25%	98%	\$0.80	495
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	New	0	2098	10	\$28,249.41	75%	98%	\$2.09	209
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	Existing	0	4961	10	\$125,945.30	25%	98%	\$3.95	172
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	New	0	2145	10	\$125,945.30	75%	98%	\$9.15	80
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	Existing	0	5193	10	\$131,830.60	25%	98%	\$3.95	9
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	New	0	2245	10	\$131,830.60	75%	98%	\$9.15	4

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	Existing	0	2816	10	\$142,424.12	25%	98%	\$7.88	23
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 50% sensible and latent recovery effectiveness	No Heat Recovery	New	0	2937	10	\$142,424.12	75%	98%	\$7.56	27
Electric	Energy Efficiency	Hospital	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	Existing	0	360	4	\$304.00	72%	85%	-\$1.72	339
Electric	Energy Efficiency	Hospital	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	New	0	360	4	\$304.00	72%	85%	-\$1.72	108
Electric	Energy Efficiency	Office	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	Existing	0	360	4	\$304.00	72%	85%	-\$1.72	2,727
Electric	Energy Efficiency	Office	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	New	0	360	4	\$304.00	72%	85%	-\$1.72	866
Electric	Energy Efficiency	Other Commercial	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	Existing	0	360	4	\$304.00	72%	85%	-\$1.72	2,083
Electric	Energy Efficiency	Other Commercial	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	New	0	360	4	\$304.00	72%	85%	-\$1.72	661
Electric	Energy Efficiency	School	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	Existing	0	360	4	\$304.00	72%	85%	-\$1.72	198
Electric	Energy Efficiency	School	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	New	0	360	4	\$304.00	72%	85%	-\$1.72	63
Electric	Energy Efficiency	University	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	Existing	0	360	4	\$304.00	72%	85%	-\$1.72	72
Electric	Energy Efficiency	University	Servers	Retrofit	Server Virtualization	Server Virtualization	No Virtualization	New	0	360	4	\$304.00	72%	85%	-\$1.72	23
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	230	4	\$58.46	60%	90%	\$0.06	880
Electric	Energy Efficiency	Dry Goods Retail	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	230	4	\$58.46	60%	90%	\$0.06	286
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	640	4	\$162.67	60%	90%	\$0.06	145
Electric	Energy Efficiency	Grocery	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	640	4	\$162.67	60%	90%	\$0.06	47
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	567	4	\$144.03	60%	90%	\$0.06	592
Electric	Energy Efficiency	Hospital	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	567	4	\$144.03	60%	90%	\$0.06	192
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	438	4	\$111.20	60%	90%	\$0.06	208
Electric	Energy Efficiency	Hotel Motel	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	438	4	\$111.20	60%	90%	\$0.06	67
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	1033	4	\$262.65	60%	90%	\$0.06	8,684
Electric	Energy Efficiency	Office	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	1033	4	\$262.65	60%	90%	\$0.06	2,817
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	240	4	\$61.00	60%	90%	\$0.06	1,541
Electric	Energy Efficiency	Other Commercial	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	240	4	\$61.00	60%	90%	\$0.06	500
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	70	4	\$17.79	60%	90%	\$0.06	170
Electric	Energy Efficiency	Restaurant	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	70	4	\$17.79	60%	90%	\$0.06	55

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	535	4	\$135.99	60%	90%	\$0.06	327
Electric	Energy Efficiency	School	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	535	4	\$135.99	60%	90%	\$0.06	106
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	560	4	\$142.34	60%	90%	\$0.06	124
Electric	Energy Efficiency	University	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	560	4	\$142.34	60%	90%	\$0.06	40
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	Existing	0	403	4	\$102.52	60%	90%	\$0.06	376
Electric	Energy Efficiency	Warehouse	Other Plug Load	Retrofit	Advanced Power Strip	Advanced Power Strip - Load Sensing	Standard Power Strip	New	0	403	4	\$102.52	60%	90%	\$0.06	122
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	Existing	0	12	12	-\$111.83	95%	81%	-\$1.30	4
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	New	0	12	12	-\$111.83	95%	81%	-\$1.30	1
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	Existing	0	10	12	-\$115.05	95%	81%	-\$1.71	14
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	New	0	10	12	-\$115.05	95%	81%	-\$1.71	5
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	Existing	0	4	12	-\$35.69	95%	81%	-\$1.20	39
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	New	0	4	12	-\$35.69	95%	81%	-\$1.20	13
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	Existing	0	1	12	-\$10.52	95%	81%	-\$1.71	3
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	New	0	1	12	-\$10.52	95%	81%	-\$1.71	1
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	Existing	0	12	12	-\$144.19	95%	81%	-\$1.71	11
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	New	0	12	12	-\$144.19	95%	81%	-\$1.71	3
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	Existing	0	13	12	-\$150.93	95%	81%	-\$1.71	4
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Solid Door ENERGY STAR Refrigerators/Freezers	Solid Door ENERGY STAR Refrigerators/Freezers	Standard Solid Door	New	0	13	12	-\$150.93	95%	81%	-\$1.71	1
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	399	14	\$79.92	5%	95%	\$0.01	134
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	399	14	\$79.92	5%	95%	\$0.01	44
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	1110	14	\$222.40	5%	95%	\$0.01	22
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	1110	14	\$222.40	5%	95%	\$0.01	7
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	982	14	\$196.92	5%	95%	\$0.01	90

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	982	14	\$196.92	5%	95%	\$0.01	29
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	759	14	\$152.04	5%	95%	\$0.01	32
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	759	14	\$152.04	5%	95%	\$0.01	10
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	1792	14	\$359.08	5%	95%	\$0.01	1,324
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	1792	14	\$359.08	5%	95%	\$0.01	430
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	416	14	\$83.40	5%	95%	\$0.01	235
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	416	14	\$83.40	5%	95%	\$0.01	76
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	121	14	\$24.32	5%	95%	\$0.01	26
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	121	14	\$24.32	5%	95%	\$0.01	8
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	928	14	\$185.91	5%	95%	\$0.01	50
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	928	14	\$185.91	5%	95%	\$0.01	16
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	971	14	\$194.60	5%	95%	\$0.01	19
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	971	14	\$194.60	5%	95%	\$0.01	6
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	Existing	0	699	14	\$140.15	5%	95%	\$0.01	57
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Solid State LED White Lighting	Landscape, merchandise, signage, structure & task lighting (2.5 W)	50W 10hrs/day, 365 day/yr	New	0	699	14	\$140.15	5%	95%	\$0.01	19
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Standalone to Multiplex Compressor	Standalone to Multiplex Compressor	Standalone compressor	Existing	0	19675	15	\$2,810.73	80%	90%	\$0.00	5,553
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Standalone to Multiplex Compressor	Standalone to Multiplex Compressor	Standalone compressor	Existing	0	42	15	\$1,054.02	3%	90%	\$3.17	5
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	0	4817	9	\$54.45	5%	62%	-\$0.01	20
Electric	Energy Efficiency	Grocery	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	0	4817	9	\$54.45	5%	62%	-\$0.01	11



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	0	974	9	\$11.02	5%	62%	-\$0.01	6
Electric	Energy Efficiency	Hospital	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	0	974	9	\$11.02	5%	62%	-\$0.01	6
Electric	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	0	1173	9	\$13.26	3%	62%	-\$0.01	0
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	0	704	9	\$7.95	5%	62%	-\$0.01	102
Electric	Energy Efficiency	Other Commercial	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	0	704	9	\$7.95	5%	62%	-\$0.01	45
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	0	16996	9	\$192.12	20%	62%	-\$0.01	1,656
Electric	Energy Efficiency	Restaurant	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	0	16996	9	\$192.12	20%	62%	-\$0.01	541
Electric	Energy Efficiency	School	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	0	397	9	\$4.49	5%	62%	-\$0.01	2
Electric	Energy Efficiency	University	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	0	758	9	\$8.57	5%	62%	-\$0.01	1
Electric	Energy Efficiency	University	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	0	758	9	\$8.57	5%	62%	-\$0.01	2
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Strip Curtains for Walk-Ins	Strip Curtains for Walk-Ins	No Strip Curtains for Walk-In	Existing	0	820	4	\$26.75	95%	20%	\$0.00	59
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Strip Curtains for Walk-Ins	Strip Curtains for Walk-Ins	No Strip Curtains for Walk-In	Existing	0	134	4	\$8.92	15%	20%	\$0.01	2
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Strip Curtains for Walk-Ins	Strip Curtains for Walk-Ins	No Strip Curtains for Walk-In	Existing	0	178	4	\$8.92	5%	20%	\$0.00	5
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Strip Curtains for Walk-Ins	Strip Curtains for Walk-Ins	No Strip Curtains for Walk-In	Existing	0	268	4	\$17.83	5%	20%	\$0.01	7
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Strip Curtains for Walk-Ins	Strip Curtains for Walk-Ins	No Strip Curtains for Walk-In	Existing	0	268	4	\$17.83	95%	20%	\$0.01	52
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Strip Curtains for Walk-Ins	Strip Curtains for Walk-Ins	No Strip Curtains for Walk-In	Existing	0	268	4	\$17.83	95%	20%	\$0.01	19
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	582	19	\$785.84	47%	95%	\$0.14	1,822
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	582	19	\$785.84	47%	95%	\$0.14	591
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	1620	19	\$2,186.69	47%	95%	\$0.14	301
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	1620	19	\$2,186.69	47%	95%	\$0.14	98
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	860	19	\$1,161.68	47%	95%	\$0.14	735
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	860	19	\$1,161.68	47%	95%	\$0.14	238
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	886	19	\$1,195.84	47%	95%	\$0.14	344
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	886	19	\$1,195.84	47%	95%	\$0.14	112
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	784	19	\$1,059.18	47%	95%	\$0.14	5,393
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	784	19	\$1,059.18	47%	95%	\$0.14	1,750
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	607	19	\$820.01	47%	95%	\$0.14	3,190
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	607	19	\$820.01	47%	95%	\$0.14	1,035
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	177	19	\$239.17	47%	95%	\$0.14	352

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	177	19	\$239.17	47%	95%	\$0.14	114
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	2708	19	\$3,655.87	47%	95%	\$0.14	1,353
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	2708	19	\$3,655.87	47%	95%	\$0.14	439
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	2834	19	\$3,826.70	47%	95%	\$0.14	515
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	2834	19	\$3,826.70	47%	95%	\$0.14	167
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	Existing	0	3062	19	\$4,134.21	47%	95%	\$0.14	2,335
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Surface Parking Lighting	Surface Parking Lighting	Normal Lighting	New	0	3062	19	\$4,134.21	47%	95%	\$0.14	758
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	622	8	\$261.70	10%	81%	\$0.06	342
Electric	Energy Efficiency	Dry Goods Retail	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	622	8	\$261.70	10%	81%	\$0.06	114
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	2557	8	\$1,075.23	10%	86%	\$0.06	1,368
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	15	8	\$6.25	10%	86%	\$0.06	211
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	3579	8	\$1,505.15	10%	86%	\$0.06	509
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	901	8	\$378.90	10%	86%	\$0.06	157
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1638	8	\$688.85	10%	81%	\$0.06	54
Electric	Energy Efficiency	Grocery	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	1638	8	\$688.85	10%	81%	\$0.06	18
Electric	Energy Efficiency	Grocery	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	10820	8	\$4,550.34	10%	81%	\$0.06	314
Electric	Energy Efficiency	Grocery	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	49	8	\$20.70	10%	81%	\$0.06	39
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	12034	8	\$5,060.80	10%	81%	\$0.06	95
Electric	Energy Efficiency	Grocery	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1733	8	\$728.94	10%	81%	\$0.06	22
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	481	8	\$202.15	10%	81%	\$0.06	70
Electric	Energy Efficiency	Hospital	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	481	8	\$202.15	10%	81%	\$0.06	24
Electric	Energy Efficiency	Hospital	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	3410	8	\$1,434.20	10%	100%	\$0.06	581
Electric	Energy Efficiency	Hospital	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	3	8	\$1.10	10%	100%	\$0.06	12
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	3680	8	\$1,547.47	10%	100%	\$0.06	168
Electric	Energy Efficiency	Hospital	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1382	8	\$581.00	10%	100%	\$0.06	91
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	563	8	\$236.80	10%	81%	\$0.06	38
Electric	Energy Efficiency	Hotel Motel	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	563	8	\$236.80	10%	81%	\$0.06	13
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1277	8	\$537.08	10%	100%	\$0.06	96
Electric	Energy Efficiency	Hotel Motel	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	2	8	\$0.65	10%	100%	\$0.06	3

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	3583	8	\$1,506.87	10%	100%	\$0.06	70
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	4656	8	\$1,957.94	10%	100%	\$0.06	116
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	385	8	\$162.07	10%	81%	\$0.06	445
Electric	Energy Efficiency	Office	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	385	8	\$162.07	10%	81%	\$0.06	151
Electric	Energy Efficiency	Office	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	2960	8	\$1,244.92	10%	88%	\$0.06	3,510
Electric	Energy Efficiency	Office	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	4	8	\$1.62	10%	88%	\$0.06	123
Electric	Energy Efficiency	Office	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	2957	8	\$1,243.45	10%	88%	\$0.06	960
Electric	Energy Efficiency	Office	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	503	8	\$211.33	10%	88%	\$0.06	205
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	720	8	\$302.60	10%	81%	\$0.06	667
Electric	Energy Efficiency	Other Commercial	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	720	8	\$302.60	10%	81%	\$0.06	222
Electric	Energy Efficiency	Other Commercial	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1285	8	\$540.32	10%	100%	\$0.06	1,346
Electric	Energy Efficiency	Other Commercial	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	15	8	\$6.32	10%	100%	\$0.06	416
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	1916	8	\$805.96	10%	100%	\$0.06	530
Electric	Energy Efficiency	Other Commercial	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	402	8	\$168.90	10%	100%	\$0.06	141
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	403	8	\$169.35	10%	81%	\$0.06	138
Electric	Energy Efficiency	Restaurant	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	403	8	\$169.35	10%	81%	\$0.06	46
Electric	Energy Efficiency	Restaurant	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	578	8	\$243.22	10%	100%	\$0.06	230
Electric	Energy Efficiency	Restaurant	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1	8	\$0.57	10%	100%	\$0.06	14
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	1044	8	\$439.15	10%	100%	\$0.06	111
Electric	Energy Efficiency	Restaurant	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	796	8	\$334.75	10%	100%	\$0.06	110
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1982	8	\$833.60	10%	81%	\$0.06	174
Electric	Energy Efficiency	School	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	1982	8	\$833.60	10%	81%	\$0.06	58
Electric	Energy Efficiency	School	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	7902	8	\$3,322.97	10%	95%	\$0.06	750
Electric	Energy Efficiency	School	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	25	8	\$10.53	10%	95%	\$0.06	63
Electric	Energy Efficiency	School	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	7564	8	\$3,180.83	10%	95%	\$0.06	198
Electric	Energy Efficiency	School	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	418	8	\$175.98	10%	95%	\$0.06	18
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	2075	8	\$872.55	10%	81%	\$0.06	67
Electric	Energy Efficiency	University	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	2075	8	\$872.55	10%	81%	\$0.06	22
Electric	Energy Efficiency	University	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	6440	8	\$2,708.20	10%	95%	\$0.06	222

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	17	8	\$7.34	10%	95%	\$0.06	16
Electric	Energy Efficiency	University	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	8190	8	\$3,444.28	10%	95%	\$0.06	78
Electric	Energy Efficiency	University	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	2407	8	\$1,012.25	10%	95%	\$0.06	36
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	826	8	\$347.30	10%	81%	\$0.06	103
Electric	Energy Efficiency	Warehouse	Lighting Exterior	Retrofit	Time Clock	Time Clock	No Controls	New	0	826	8	\$347.30	10%	81%	\$0.06	35
Electric	Energy Efficiency	Warehouse	Lighting Interior Fluorescent	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	3294	8	\$1,385.31	10%	100%	\$0.06	523
Electric	Energy Efficiency	Warehouse	Lighting Interior HID	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	91	8	\$38.43	10%	100%	\$0.06	368
Electric	Energy Efficiency	Warehouse	Lighting Interior Other	Retrofit	Time Clock	Time Clock	No Controls	New	0	5604	8	\$2,356.67	10%	100%	\$0.06	224
Electric	Energy Efficiency	Warehouse	Lighting Interior Screw Base	Retrofit	Time Clock	Time Clock	No Controls	Existing	0	1619	8	\$680.69	10%	100%	\$0.06	85
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	83	9	\$451.95	95%	95%	\$0.89	159
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	37	9	\$451.95	95%	95%	\$2.00	46
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	78	9	\$451.95	95%	95%	\$0.95	154
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	78	9	\$451.95	95%	95%	\$0.95	44
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	244	9	\$1,257.60	95%	95%	\$0.85	13
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	112	9	\$1,257.60	95%	95%	\$1.85	4
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	228	9	\$1,257.60	95%	95%	\$0.90	13
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	234	9	\$1,257.60	95%	95%	\$0.88	4
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	600	9	\$1,670.25	95%	90%	\$0.45	209
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	275	9	\$1,670.25	95%	90%	\$1.00	61
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	563	9	\$1,670.25	95%	90%	\$0.48	202
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	571	9	\$1,670.25	95%	90%	\$0.47	59
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	762	9	\$6,877.50	95%	85%	\$1.49	92
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	353	9	\$6,877.50	95%	85%	\$3.23	27
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	715	9	\$6,877.50	95%	85%	\$1.59	89
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	736	9	\$6,877.50	95%	85%	\$1.54	27

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	182	9	\$609.15	95%	85%	\$0.54	831
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	84	9	\$609.15	95%	85%	\$1.19	244
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	171	9	\$609.15	95%	85%	\$0.58	802
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	176	9	\$609.15	95%	85%	\$0.56	238
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	114	9	\$471.60	95%	95%	\$0.67	326
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	52	9	\$471.60	95%	95%	\$1.49	95
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	107	9	\$471.60	95%	95%	\$0.72	314
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	109	9	\$471.60	95%	95%	\$0.71	92
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	774	9	\$393.00	95%	75%	\$0.07	416
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	351	9	\$393.00	95%	75%	\$0.17	120
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	726	9	\$393.00	95%	75%	\$0.08	402
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	730	9	\$393.00	95%	75%	\$0.08	117
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	2019	9	\$2,102.55	95%	75%	\$0.16	242
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	892	9	\$2,102.55	95%	75%	\$0.38	68
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	1894	9	\$2,102.55	95%	75%	\$0.17	234
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	1857	9	\$2,102.55	95%	75%	\$0.18	66
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	2114	9	\$2,200.80	95%	75%	\$0.16	92
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	934	9	\$2,200.80	95%	75%	\$0.38	26
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	1982	9	\$2,200.80	95%	75%	\$0.17	89
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	1944	9	\$2,200.80	95%	75%	\$0.18	25
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	302	9	\$475.53	95%	95%	\$0.25	170
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	138	9	\$475.53	95%	95%	\$0.56	49
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	0	283	9	\$475.53	95%	95%	\$0.26	164

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	0	287	9	\$475.53	95%	95%	\$0.26	48
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	VFD Rooftop Unit Supply Fan (Grocery Only)	VFD Rooftop Unit Supply Fan (Grocery Only)	Standard Supply Fan	Existing	0	5907	15	\$3,675.00	90%	75%	\$0.06	1,334
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	VFD Rooftop Unit Supply Fan (Grocery Only)	VFD Rooftop Unit Supply Fan (Grocery Only)	Standard Supply Fan	New	0	5907	15	\$3,675.00	90%	75%	\$0.06	480
Electric	Energy Efficiency	Dry Goods Retail	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	80	10	\$61.70	5%	25%	\$0.11	5
Electric	Energy Efficiency	Grocery	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	369	10	\$426.10	75%	25%	\$0.16	22
Electric	Energy Efficiency	Hospital	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	85	10	\$65.74	50%	25%	\$0.11	15
Electric	Energy Efficiency	Hotel Motel	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	141	10	\$109.54	90%	25%	\$0.11	21
Electric	Energy Efficiency	Office	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	128	10	\$99.62	10%	25%	\$0.11	37
Electric	Energy Efficiency	Other Commercial	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	85	10	\$65.74	10%	25%	\$0.11	19
Electric	Energy Efficiency	School	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	383	10	\$296.87	75%	25%	\$0.11	60
Electric	Energy Efficiency	University	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	401	10	\$310.74	90%	25%	\$0.11	28
Electric	Energy Efficiency	Warehouse	Vending Machines	Retrofit	Vending Miser	Passive Infrared Sensor on Vending Machine Monitoring Vacancy of Area And Cycles Cooling - Controls	No Vending Miser - No controls	Existing	0	158	10	\$122.45	10%	25%	\$0.11	5
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	Existing	0	995	10	\$186.62	95%	85%	\$0.01	338
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	New	0	995	10	\$186.62	95%	85%	\$0.01	110
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	Existing	0	529	10	\$99.14	95%	85%	\$0.01	826

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	New	0	529	10	\$99.14	95%	85%	\$0.01	268
Electric	Energy Efficiency	Hotel Motel	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	Existing	0	544	10	\$102.06	95%	85%	\$0.01	387
Electric	Energy Efficiency	Hotel Motel	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	New	0	544	10	\$102.06	95%	85%	\$0.01	125
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	Existing	0	373	10	\$69.98	95%	85%	\$0.01	3,584
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	New	0	373	10	\$69.98	95%	85%	\$0.01	1,163
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	Existing	0	109	10	\$20.41	95%	85%	\$0.01	395
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	New	0	109	10	\$20.41	95%	85%	\$0.01	128
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	Existing	0	1664	10	\$312.01	95%	85%	\$0.01	1,520
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	New	0	1664	10	\$312.01	95%	85%	\$0.01	493
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	Existing	0	1742	10	\$326.59	95%	85%	\$0.01	579
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Visi Cooler	High Efficiency Visi Cooler	Standard Visi Cooler	New	0	1742	10	\$326.59	95%	85%	\$0.01	188
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Walk-In Electronically Commutated Motor	ECM Evaporator Fans	Standard Efficiency Motor	Existing	0	3736	15	\$482.82	95%	95%	\$0.00	1,417
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Walk-In Electronically Commutated Motor	ECM Evaporator Fans	Standard Efficiency Motor	Existing	0	1245	15	\$160.94	5%	95%	\$0.00	114
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Walk-In Electronically Commutated Motor	ECM Evaporator Fans	Standard Efficiency Motor	Existing	0	1245	15	\$160.94	3%	95%	\$0.00	352
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Walk-In Electronically Commutated Motor	ECM Evaporator Fans	Standard Efficiency Motor	Existing	0	2491	15	\$321.88	75%	95%	\$0.00	7,973
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Walk-In Electronically Commutated Motor	ECM Evaporator Fans	Standard Efficiency Motor	Existing	0	2491	15	\$321.88	10%	95%	\$0.00	268
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Walk-In Electronically Commutated Motor	ECM Evaporator Fans	Standard Efficiency Motor	Existing	0	2491	15	\$321.88	10%	95%	\$0.00	97
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	0	1111	10	\$29,120.00	3%	94%	\$4.07	1
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	0	1042	10	\$29,120.00	3%	94%	\$4.34	1
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	0	73644	10	\$29,120.00	3%	94%	\$0.05	576
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	0	521	10	\$107.09	3%	94%	\$0.02	38
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	0	489	10	\$107.09	3%	94%	\$0.02	36
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	0	157	10	\$107.09	3%	94%	\$0.09	25

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	1902	10	\$14,295.86	13%	66%	\$1.17	280
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	1902	10	\$14,295.86	13%	66%	\$1.15	60
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	4820	10	\$28,252.75	13%	66%	\$0.91	54
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	4820	10	\$28,252.75	13%	66%	\$0.90	12
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	2818	10	\$19,562.66	24%	66%	\$1.07	230
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	2818	10	\$19,562.66	24%	66%	\$1.06	30
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Window Film	Window Film	No Film	Existing	0	2836	10	\$19,562.66	24%	66%	\$1.07	83
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	2567	10	\$41,462.99	24%	66%	\$2.51	32
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	2567	10	\$41,462.99	24%	66%	\$2.50	56
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Window Film	Window Film	No Film	Existing	0	2567	10	\$41,462.99	24%	66%	\$2.51	42
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	2077	10	\$22,354.90	24%	66%	\$1.67	1,037
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	2077	10	\$22,354.90	24%	66%	\$1.66	788
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Window Film	Window Film	No Film	Existing	0	2904	10	\$22,354.90	24%	66%	\$1.19	652
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	1941	10	\$7,632.74	13%	66%	\$0.61	295
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	1941	10	\$7,632.74	13%	66%	\$0.59	91
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Window Film	Window Film	No Film	Existing	0	1913	10	\$7,632.74	13%	66%	\$0.62	59
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	1263	10	\$6,341.28	19%	66%	\$0.78	187
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	1263	10	\$6,341.28	19%	66%	\$0.77	47
Electric	Energy Efficiency	School	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	1595	10	\$62,623.85	24%	66%	\$6.12	34
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	1595	10	\$62,623.85	24%	66%	\$6.09	37
Electric	Energy Efficiency	School	Cooling Chillers	Retrofit	Window Film	Window Film	No Film	Existing	0	1740	10	\$62,623.85	24%	66%	\$5.61	36
Electric	Energy Efficiency	University	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	1670	10	\$65,550.20	24%	66%	\$6.12	3
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	1670	10	\$65,550.20	24%	66%	\$6.09	1
Electric	Energy Efficiency	University	Cooling Chillers	Retrofit	Window Film	Window Film	No Film	Existing	0	1821	10	\$65,550.20	24%	66%	\$5.61	2
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Window Film	Window Film	No Film	Existing	0	1000	10	\$18,932.44	6%	66%	\$2.95	7
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Window Film	Window Film	No Film	Existing	0	1000	10	\$18,932.44	6%	66%	\$2.92	2
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Window Film	Window Film	No Film	Existing	0	988	10	\$18,932.44	6%	66%	\$2.98	2
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2738	45	\$1,860.34	15%	80%	\$0.06	961
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1354	45	\$1,860.34	80%	80%	\$0.13	863



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2472	45	\$1,860.34	15%	80%	\$0.06	165
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1220	45	\$1,860.34	80%	80%	\$0.13	145
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	6937	45	\$3,676.56	15%	85%	\$0.05	166
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	5818	45	\$3,676.56	80%	85%	\$0.06	296
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	3170	45	\$3,676.56	15%	85%	\$0.10	16
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	5243	45	\$3,676.56	80%	85%	\$0.05	54
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	4056	45	\$2,545.71	15%	60%	\$0.05	237
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1058	45	\$2,545.71	80%	60%	\$0.23	142
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2855	45	\$2,545.71	15%	60%	\$0.07	24
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	324	45	\$2,545.71	80%	60%	\$0.76	4
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	4081	45	\$2,545.71	15%	60%	\$0.05	109
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	901	45	\$2,545.71	80%	60%	\$0.27	45
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	3694	45	\$5,395.62	15%	50%	\$0.14	29
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1173	45	\$5,395.62	80%	50%	\$0.45	19
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2003	45	\$5,395.62	15%	50%	\$0.25	23
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	148	45	\$5,395.62	80%	50%	\$3.61	3
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	3695	45	\$5,395.62	15%	50%	\$0.14	38
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	999	45	\$5,395.62	80%	50%	\$0.53	21
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2990	45	\$2,909.06	15%	95%	\$0.09	1,842
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1064	45	\$2,909.06	80%	95%	\$0.27	1,448
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2196	45	\$2,909.06	15%	95%	\$0.11	1,098
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	712	45	\$2,909.06	80%	95%	\$0.38	603
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	4179	45	\$2,909.06	15%	95%	\$0.06	1,292
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1303	45	\$2,909.06	80%	95%	\$0.21	824
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2793	45	\$993.25	15%	70%	\$0.03	876
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1243	45	\$993.25	80%	70%	\$0.07	709
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2177	45	\$993.25	15%	70%	\$0.03	201
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	921	45	\$993.25	80%	70%	\$0.09	149
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2754	45	\$993.25	15%	70%	\$0.03	156

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1059	45	\$993.25	80%	70%	\$0.09	110
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	1818	45	\$825.19	15%	80%	\$0.04	439
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	680	45	\$825.19	80%	80%	\$0.11	300
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	1688	45	\$825.19	15%	80%	\$0.04	101
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	531	45	\$825.19	80%	80%	\$0.14	55
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	1364	45	\$8,149.30	15%	60%	\$0.56	19
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	586	45	\$8,149.30	80%	60%	\$1.35	16
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	1428	45	\$8,530.11	15%	60%	\$0.56	0
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	614	45	\$8,530.11	80%	60%	\$1.35	0
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	1440	45	\$2,463.70	15%	98%	\$0.16	43
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1741	45	\$2,463.70	80%	98%	\$0.13	98
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	157	45	\$2,463.70	15%	98%	\$1.53	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	983	45	\$2,463.70	80%	98%	\$0.21	20
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	1421	45	\$2,463.70	15%	98%	\$0.17	10
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	1483	45	\$2,463.70	80%	98%	\$0.16	20
Electric	Energy Efficiency	Dry Goods Retail	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	2328	45	\$16,787.65	15%	80%	\$0.70	648
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	2628	45	\$16,787.65	15%	80%	\$0.62	131
Electric	Energy Efficiency	Grocery	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	6072	45	\$33,177.25	15%	85%	\$0.52	125
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	6744	45	\$33,177.25	15%	85%	\$0.47	27
Electric	Energy Efficiency	Hospital	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	3475	45	\$22,972.46	15%	60%	\$0.60	191
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	3864	45	\$22,972.46	15%	60%	\$0.57	25
Electric	Energy Efficiency	Hospital	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	3496	45	\$22,972.46	15%	60%	\$0.64	77
Electric	Energy Efficiency	Hotel Motel	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	3233	45	\$48,690.05	15%	50%	\$1.48	19
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	3413	45	\$48,690.05	15%	50%	\$1.40	36
Electric	Energy Efficiency	Hotel Motel	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	3234	45	\$48,690.05	15%	50%	\$1.47	28
Electric	Energy Efficiency	Office	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	2727	45	\$26,251.39	15%	95%	\$0.95	1,464
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	2669	45	\$26,251.39	15%	95%	\$0.96	935
Electric	Energy Efficiency	Office	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	3812	45	\$26,251.39	15%	95%	\$0.68	931
Electric	Energy Efficiency	Other Commercial	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	2445	45	\$8,963.15	15%	70%	\$0.35	601

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	2524	45	\$8,963.15	15%	70%	\$0.33	171
Electric	Energy Efficiency	Other Commercial	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	2410	45	\$8,963.15	15%	70%	\$0.36	110
Electric	Energy Efficiency	Restaurant	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	1591	45	\$7,446.57	15%	80%	\$0.46	234
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	1598	45	\$7,446.57	15%	80%	\$0.45	59
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	18507	45	\$73,539.29	15%	60%	\$0.37	286
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	19371	45	\$76,975.70	15%	60%	\$0.37	6
Electric	Energy Efficiency	Warehouse	Cooling DX	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	1260	45	\$22,232.39	15%	98%	\$1.72	39
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	1544	45	\$22,232.39	15%	98%	\$1.40	14
Electric	Energy Efficiency	Warehouse	Cooling Chillers	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	1244	45	\$22,232.39	15%	98%	\$1.75	9
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	128	9	\$4.58	95%	75%	-\$0.01	119
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	58	9	\$4.58	95%	75%	\$0.00	56
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	120	9	\$4.58	95%	75%	-\$0.01	115
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	120	9	\$4.58	95%	75%	-\$0.01	54
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	174	9	\$12.74	95%	75%	\$0.00	5
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	362	9	\$12.74	95%	75%	-\$0.01	5
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	927	9	\$16.92	95%	75%	-\$0.01	233
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	424	9	\$16.92	95%	75%	-\$0.01	78
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	870	9	\$16.92	95%	75%	-\$0.01	225
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	883	9	\$16.92	95%	75%	-\$0.01	76
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	1178	9	\$69.65	95%	75%	-\$0.01	108
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	546	9	\$69.65	95%	75%	\$0.01	37
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	1105	9	\$69.65	95%	75%	\$0.00	105
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	1137	9	\$69.65	95%	75%	\$0.00	36
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	282	9	\$6.17	95%	75%	-\$0.01	904
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	130	9	\$6.17	95%	75%	-\$0.01	333
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	264	9	\$6.17	95%	75%	-\$0.01	872
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	271	9	\$6.17	95%	75%	-\$0.01	324
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	177	9	\$4.78	95%	75%	-\$0.01	290
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	81	9	\$4.78	95%	75%	-\$0.01	115

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	166	9	\$4.78	95%	75%	-\$0.01	280
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	168	9	\$4.78	95%	75%	-\$0.01	112
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	1197	9	\$3.98	95%	75%	-\$0.01	606
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	542	9	\$3.98	95%	75%	-\$0.01	185
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	1122	9	\$3.98	95%	75%	-\$0.01	585
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	1129	9	\$3.98	95%	75%	-\$0.01	181
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	3121	9	\$21.29	95%	75%	-\$0.01	334
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	1379	9	\$21.29	95%	75%	-\$0.01	105
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	2927	9	\$21.29	95%	75%	-\$0.01	322
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	2870	9	\$21.29	95%	75%	-\$0.01	102
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	3267	9	\$22.29	95%	75%	-\$0.01	129
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	1444	9	\$22.29	95%	75%	-\$0.01	40
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	3064	9	\$22.29	95%	75%	-\$0.01	124
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	3004	9	\$22.29	95%	75%	-\$0.01	39
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	466	9	\$4.82	95%	75%	-\$0.02	173
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	213	9	\$4.82	95%	75%	-\$0.01	60
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	0	438	9	\$4.82	95%	75%	-\$0.02	167
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	0	444	9	\$4.82	95%	75%	-\$0.02	59
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	88	10	\$61.89	95%	73%	\$0.09	25
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	88	10	\$61.89	95%	73%	\$0.09	16
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	183	10	\$61.89	95%	73%	\$0.04	53
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	183	10	\$61.89	95%	73%	\$0.04	15
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	2511	10	\$1,274.18	95%	73%	\$0.06	262
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	2511	10	\$1,274.18	95%	73%	\$0.06	166
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	5226	10	\$1,274.18	95%	73%	\$0.02	560
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	5226	10	\$1,274.18	95%	73%	\$0.02	162
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	15	10	\$14.11	95%	73%	\$0.13	59
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	15	10	\$14.11	95%	73%	\$0.13	37
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	31	10	\$14.11	95%	73%	\$0.05	126

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	31	10	\$14.11	95%	73%	\$0.05	36
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	12	10	\$10.92	95%	73%	\$0.13	25
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	12	10	\$10.92	95%	73%	\$0.13	16
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	24	10	\$10.92	95%	73%	\$0.05	55
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	24	10	\$10.92	95%	73%	\$0.05	16
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	402	10	\$347.80	95%	73%	\$0.12	47
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	402	10	\$347.80	95%	73%	\$0.12	30
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	836	10	\$347.80	95%	73%	\$0.05	100
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	836	10	\$347.80	95%	73%	\$0.05	29
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	421	10	\$364.05	95%	73%	\$0.12	18
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	421	10	\$364.05	95%	73%	\$0.12	11
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	0	875	10	\$364.05	95%	73%	\$0.05	38
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	0	875	10	\$364.05	95%	73%	\$0.05	11
Electric	Energy Efficiency	Dry Goods Retail	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	303	16	\$138.17	95%	50%	\$0.04	1,018
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	387	16	\$176.58	95%	50%	\$0.04	77
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	345	16	\$157.71	95%	50%	\$0.04	317
Electric	Energy Efficiency	Hotel Motel	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	70	16	\$32.00	95%	50%	\$0.04	29
Electric	Energy Efficiency	Office	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	70	16	\$32.00	95%	50%	\$0.04	518
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	123	16	\$56.11	95%	50%	\$0.04	694
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	123	16	\$56.00	95%	50%	\$0.04	262
Electric	Energy Efficiency	School	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	79	16	\$36.15	95%	50%	\$0.04	43
Electric	Energy Efficiency	University	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	302	16	\$137.86	95%	50%	\$0.04	59
Electric	Energy Efficiency	Warehouse	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	70	16	\$32.00	95%	50%	\$0.04	57
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	3092	15	\$8,386.38	5%	95%	\$0.32	66
Electric	Energy Efficiency	Dry Goods Retail	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1525	15	\$6,709.10	5%	95%	\$0.54	12
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	7208	15	\$15,557.34	5%	95%	\$0.26	11
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	5997	15	\$12,445.88	5%	95%	\$0.25	3
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	4297	15	\$8,264.84	5%	95%	\$0.23	16

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1090	15	\$6,611.87	5%	95%	\$0.75	1
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	3743	15	\$8,507.92	5%	95%	\$0.27	28
Electric	Energy Efficiency	Hotel Motel	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1186	15	\$6,806.34	5%	95%	\$0.71	3
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	3276	15	\$7,535.59	5%	95%	\$0.27	422
Electric	Energy Efficiency	Office	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1221	15	\$6,028.47	5%	95%	\$0.61	62
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	2935	15	\$6,563.25	5%	95%	\$0.26	89
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1280	15	\$5,250.61	5%	95%	\$0.50	13
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	1933	15	\$3,403.17	5%	95%	\$0.21	31
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	652	15	\$2,722.53	5%	95%	\$0.52	3
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	2391	15	\$34,679.91	5%	95%	\$1.81	17
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1157	15	\$27,743.93	5%	95%	\$3.02	3
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	2502	15	\$36,300.48	5%	95%	\$1.81	0
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1211	15	\$29,040.38	5%	95%	\$3.02	0
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	Existing	0	1514	15	\$22,059.83	5%	95%	\$1.82	4
Electric	Energy Efficiency	Warehouse	Heat Pump	Retrofit	Water Source Heat Pump > 135 kBtu/hr	High Efficiency Water Source Heat Pump > 135 kBtu/hr	Standard Water Source Heat Pump > 135 kBtu/hr	New	0	1824	15	\$17,647.86	5%	95%	\$1.19	2
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	Existing	0	22142	12	\$34,329.62	15%	95%	\$0.21	1,326
Electric	Energy Efficiency	Grocery	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	New	0	21100	12	\$32,713.35	15%	95%	\$0.21	410
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	Existing	0	288	12	\$447.14	15%	95%	\$0.21	79
Electric	Energy Efficiency	Hospital	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	New	0	352	12	\$546.50	15%	95%	\$0.21	32
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	Existing	0	81	12	\$126.25	15%	95%	\$0.21	138
Electric	Energy Efficiency	Other Commercial	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	New	0	100	12	\$154.31	15%	95%	\$0.21	55
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	Existing	0	653	12	\$1,012.63	15%	95%	\$0.21	418
Electric	Energy Efficiency	Restaurant	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	New	0	798	12	\$1,237.66	15%	95%	\$0.21	166

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	Existing	0	908	12	\$1,407.16	15%	95%	\$0.21	146
Electric	Energy Efficiency	School	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	New	0	908	12	\$1,407.16	15%	95%	\$0.21	47
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	Existing	0	950	12	\$1,472.92	15%	95%	\$0.21	56
Electric	Energy Efficiency	University	Refrigeration	Retrofit	Add Doors to Refrigerated Open Display Cases	Add Doors to Refrigerated Open Display Cases	Standard Refrigerated Open Display Cases	New	0	950	12	\$1,472.92	15%	95%	\$0.21	18
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	Existing	0	39480	15	\$6,907.43	25%	95%	\$0.01	437
Electric	Energy Efficiency	Grocery	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	New	0	14269	15	\$6,907.43	75%	95%	\$0.05	155
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	Existing	0	16651	15	\$3,669.58	25%	95%	\$0.01	421
Electric	Energy Efficiency	Hospital	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	New	0	7075	15	\$3,669.58	75%	95%	\$0.05	178
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	Existing	0	9750	15	\$2,914.06	25%	95%	\$0.02	2,072
Electric	Energy Efficiency	Other Commercial	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	New	0	4452	15	\$2,914.06	75%	95%	\$0.06	940
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	Existing	0	4608	15	\$1,511.01	25%	95%	\$0.03	555
Electric	Energy Efficiency	Restaurant	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	New	0	1827	15	\$1,511.01	75%	95%	\$0.09	220
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	Existing	0	38932	15	\$15,397.83	25%	95%	\$0.02	2,192
Electric	Energy Efficiency	School	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	New	0	16733	15	\$15,397.83	75%	95%	\$0.09	926
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	Existing	0	40752	15	\$16,117.35	25%	95%	\$0.02	46
Electric	Energy Efficiency	University	Heat Pump	Retrofit	Variable Refrigerant Flow Cooling System	Variable Refrigerant Flow Cooling System	Standard Refrigeration System	New	0	17515	15	\$16,117.35	75%	95%	\$0.09	20
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	15	12	\$44.74	24%	25%	\$0.42	2
Electric	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	15	12	\$44.74	24%	55%	\$0.42	3
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	15	12	\$44.74	24%	25%	\$0.42	2
Electric	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	15	12	\$44.74	24%	55%	\$0.42	1
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	14	12	\$43.22	24%	25%	\$0.42	0
Electric	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	14	12	\$43.22	24%	55%	\$0.42	0
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	14	12	\$43.22	24%	25%	\$0.42	0
Electric	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	14	12	\$43.22	24%	55%	\$0.42	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						kWh/yr and 4.25 gal/cycle	289 kWh/yr and 5.0 gal/cycle									
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	20	12	\$60.60	11%	25%	\$0.42	0
Electric	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	20	12	\$60.60	11%	55%	\$0.42	0
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	20	12	\$60.60	11%	25%	\$0.42	0
Electric	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	20	12	\$60.60	11%	55%	\$0.42	0
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	33	12	\$100.47	24%	25%	\$0.42	0
Electric	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	33	12	\$100.47	24%	55%	\$0.42	0
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	33	12	\$100.47	24%	25%	\$0.42	0
Electric	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	33	12	\$100.47	24%	55%	\$0.42	0
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	22	12	\$66.59	8%	25%	\$0.42	2
Electric	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	22	12	\$66.59	8%	55%	\$0.42	3
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	22	12	\$66.59	8%	25%	\$0.42	3
Electric	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	22	12	\$66.59	8%	55%	\$0.42	2
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	15	12	\$44.71	5%	25%	\$0.42	1
Electric	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	15	12	\$44.71	5%	55%	\$0.42	1
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	15	12	\$44.71	5%	25%	\$0.42	1
Electric	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	15	12	\$44.71	5%	55%	\$0.42	0
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	15	12	\$46.35	46%	25%	\$0.42	1



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	15	12	\$46.35	46%	55%	\$0.42	2
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	15	12	\$46.35	46%	25%	\$0.42	1
Electric	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	15	12	\$46.35	46%	55%	\$0.42	1
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	14	12	\$42.00	35%	25%	\$0.42	0
Electric	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	14	12	\$42.00	35%	55%	\$0.42	0
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	14	12	\$42.00	35%	25%	\$0.42	0
Electric	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	14	12	\$42.00	35%	55%	\$0.42	0
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	31	12	\$94.22	35%	25%	\$0.42	0
Electric	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	31	12	\$94.22	35%	55%	\$0.42	0
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	31	12	\$94.22	35%	25%	\$0.42	0
Electric	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	31	12	\$94.22	35%	55%	\$0.42	0
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	14	12	\$41.61	3%	25%	\$0.42	0
Electric	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	14	12	\$41.61	3%	55%	\$0.42	0
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	0	14	12	\$41.61	3%	25%	\$0.42	0
Electric	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	0	14	12	\$41.61	3%	55%	\$0.42	0
Electric	Energy Efficiency	Grocery	Lighting Interior Fluorescent	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	Existing	0	40036	6	\$11,213.18	95%	80%	\$0.05	11,185
Electric	Energy Efficiency	Grocery	Lighting Interior Other	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	New	0	30981	6	\$11,213.18	95%	80%	\$0.06	2,407
Electric	Energy Efficiency	Hospital	Lighting Interior Other	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	New	0	404	6	\$146.05	15%	80%	\$0.06	23
Electric	Energy Efficiency	Other Commercial	Lighting Interior Other	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	New	0	114	6	\$41.24	10%	80%	\$0.04	26

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Lighting Interior Fluorescent	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	Existing	0	1181	6	\$330.76	25%	80%	\$0.04	712
Electric	Energy Efficiency	Restaurant	Lighting Interior Other	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	New	0	914	6	\$330.76	25%	80%	\$0.06	200
Electric	Energy Efficiency	School	Lighting Interior Other	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	New	0	1270	6	\$459.63	10%	80%	\$0.06	28
Electric	Energy Efficiency	University	Lighting Interior Other	Retrofit	LED Refrigeration Case Lights	LED Refrigeration Case Lights	Fluorescent Refrigeration Case	New	0	1329	6	\$481.10	10%	80%	\$0.06	11
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2044	15	\$2,875.00	25%	94%	\$0.11	527
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	1888	15	\$4,250.00	5%	94%	\$0.17	68
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	1236	15	\$4,375.00	50%	94%	\$0.40	106
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	4381	15	\$3,875.00	75%	94%	\$0.03	15,915
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	2762	15	\$3,000.00	50%	94%	\$0.08	4,366
Electric	Energy Efficiency	School	Space Heat	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	26704	15	\$13,375.00	25%	94%	\$0.03	451
Electric	Energy Efficiency	University	Space Heat	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	0	27952	15	\$14,000.00	25%	94%	\$0.03	222
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	5555	15	\$34,943.57	15%	67%	\$0.73	460
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	5130	15	\$51,655.72	15%	67%	\$1.18	293
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	16802	15	\$53,175.00	15%	67%	\$0.36	317
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	11906	15	\$47,097.85	15%	67%	\$0.43	4,491
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	7507	15	\$36,462.85	15%	67%	\$0.56	1,924
Electric	Energy Efficiency	School	Space Heat	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	72574	15	\$162,563.57	15%	67%	\$0.25	399
Electric	Energy Efficiency	University	Space Heat	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	0	75965	15	\$170,160.00	15%	67%	\$0.25	198
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	0	3974	8	\$11,216.93	75%	59%	\$0.44	496
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	0	11736	8	\$31,212.31	75%	61%	\$0.42	44
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3974	8	\$8,510.00	50%	80%	\$0.32	1,244

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	11736	8	\$23,680.00	50%	80%	\$0.31	7
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	3671	8	\$12,580.00	75%	80%	\$0.52	1,298
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	12022	8	\$12,950.00	50%	80%	\$0.15	921
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	8519	8	\$11,470.00	50%	80%	\$0.17	13,090
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	5371	8	\$8,880.00	50%	80%	\$0.24	5,585
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	811	8	\$2,590.00	50%	100%	\$0.51	21
Electric	Energy Efficiency	School	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	51927	8	\$39,590.00	50%	80%	\$0.11	1,110
Electric	Energy Efficiency	University	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	54354	8	\$41,440.00	50%	80%	\$0.11	567
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	0	11712	8	\$44,770.00	50%	98%	\$0.64	870
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	2020	18	\$8,625.00	45%	65%	\$0.43	549
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	5964	18	\$16,000.00	45%	65%	\$0.26	47
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	1865	18	\$8,500.00	45%	65%	\$0.48	354
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	6109	18	\$8,750.00	45%	65%	\$0.13	369
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	4329	18	\$7,750.00	45%	65%	\$0.14	5,217
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	2730	18	\$6,750.00	45%	65%	\$0.23	2,235
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	412	18	\$3,500.00	45%	65%	\$0.92	36
Electric	Energy Efficiency	School	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	26388	18	\$35,666.67	45%	65%	\$0.13	464
Electric	Energy Efficiency	University	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	27621	18	\$37,333.33	45%	65%	\$0.13	230
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	0	5952	18	\$22,687.50	45%	65%	\$0.40	343
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	3484	14	\$28,078.84	5%	94%	\$1.01	131
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	773	14	\$28,078.84	5%	94%	\$4.73	14
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	10287	14	\$78,132.42	5%	94%	\$0.95	12
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	892	14	\$78,132.42	5%	94%	\$11.47	0
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	3218	14	\$41,507.85	5%	94%	\$1.67	84
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	1765	14	\$41,507.85	5%	94%	\$3.06	21

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	10538	14	\$42,728.68	5%	94%	\$0.50	90
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	6705	14	\$42,728.68	5%	94%	\$0.81	26
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	7467	14	\$37,845.39	5%	94%	\$0.63	1,281
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	1539	14	\$37,845.39	5%	94%	\$3.20	115
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	4708	14	\$29,299.66	5%	94%	\$0.77	549
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	999	14	\$29,299.66	5%	94%	\$3.81	55
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	711	14	\$8,545.73	5%	94%	\$1.54	9
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	163	14	\$8,545.73	5%	94%	\$6.85	1
Electric	Energy Efficiency	School	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	45519	14	\$130,627.65	5%	94%	\$0.35	114
Electric	Energy Efficiency	School	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	14753	14	\$130,627.65	5%	94%	\$1.13	17
Electric	Energy Efficiency	University	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	47646	14	\$136,731.75	5%	94%	\$0.35	56
Electric	Energy Efficiency	University	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	15443	14	\$136,731.75	5%	94%	\$1.13	8
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	0	10267	14	\$147,719.12	5%	94%	\$1.85	74
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	0	3388	14	\$147,719.12	5%	94%	\$5.69	11
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	47	10	\$439.33	64%	85%	\$1.31	1
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	47	10	\$439.33	64%	85%	\$1.31	0
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	9	10	\$88.86	62%	85%	\$1.09	3
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	9	10	\$88.86	62%	85%	\$1.09	1
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	11	10	\$106.96	58%	85%	\$1.20	1
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	11	10	\$106.96	58%	85%	\$1.20	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
						Air										
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	7	10	\$64.17	100%	85%	\$1.32	14
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	7	10	\$64.17	100%	85%	\$1.32	7
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	165	10	\$1,550.00	100%	85%	\$1.36	37
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	165	10	\$1,550.00	100%	85%	\$1.36	16
Electric	Energy Efficiency	School	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	4	10	\$36.20	73%	85%	\$1.38	0
Electric	Energy Efficiency	School	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	4	10	\$36.20	73%	85%	\$1.38	0
Electric	Energy Efficiency	University	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	0	7	10	\$69.11	73%	85%	\$1.40	0
Electric	Energy Efficiency	University	Space Heat	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	0	7	10	\$69.11	73%	85%	\$1.40	0
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	2323	13	\$782.39	10%	39%	-\$0.01	118
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	6858	13	\$1,546.21	10%	39%	-\$0.02	9
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	2145	13	\$1,070.63	10%	39%	\$0.00	66
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	7025	13	\$2,269.19	10%	39%	\$0.01	66
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	4978	13	\$1,223.44	10%	39%	-\$0.02	1,019
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	3139	13	\$417.73	10%	39%	-\$0.04	462
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	474	13	\$347.05	10%	39%	\$0.04	7
Electric	Energy Efficiency	School	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	30346	13	\$3,427.28	10%	39%	-\$0.02	90
Electric	Energy Efficiency	University	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	31764	13	\$3,587.43	10%	39%	-\$0.02	43

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	0	6844	13	\$1,036.14	10%	39%	-\$0.03	58
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	493	45	\$1,121.61	25%	83%	\$0.18	108
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	109	45	\$1,121.61	75%	83%	\$0.97	27
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1477	45	\$3,231.34	25%	70%	\$0.17	5
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	128	45	\$3,231.34	75%	70%	\$2.46	1
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	398	45	\$1,224.18	25%	70%	\$0.28	50
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	218	45	\$1,224.18	75%	70%	\$0.53	29
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	987	45	\$760.06	25%	70%	\$0.05	40
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	628	45	\$760.06	75%	70%	\$0.09	27
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	881	45	\$1,015.76	25%	50%	\$0.08	509
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	181	45	\$1,015.76	75%	50%	\$0.52	110
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	666	45	\$1,171.20	25%	70%	\$0.12	388
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	141	45	\$1,171.20	75%	70%	\$0.77	89
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	99	45	\$329.50	25%	83%	\$0.28	5
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	23	45	\$329.50	75%	83%	\$1.40	2
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	3897	45	\$5,559.24	25%	70%	\$0.11	44
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	1263	45	\$5,559.24	75%	70%	\$0.41	16
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	4079	45	\$2,593.70	25%	70%	\$0.03	23
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	1322	45	\$2,593.70	75%	70%	\$0.16	8
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	0	1497	45	\$6,345.83	25%	70%	\$0.38	50
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	0	494	45	\$6,345.83	75%	70%	\$1.23	18
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	476	45	\$1,121.61	25%	98%	\$0.18	125
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	106	45	\$1,121.61	75%	98%	\$1.00	30
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1427	45	\$3,231.36	25%	85%	\$0.18	10
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	124	45	\$3,231.36	75%	85%	\$2.55	1
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	384	45	\$1,224.19	25%	85%	\$0.29	62
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	211	45	\$1,224.19	75%	85%	\$0.55	34
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	954	45	\$760.04	25%	85%	\$0.05	48
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	607	45	\$760.04	75%	85%	\$0.10	32

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	852	45	\$1,015.74	25%	65%	\$0.08	658
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	175	45	\$1,015.74	75%	65%	\$0.54	138
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	644	45	\$1,171.20	25%	85%	\$0.13	462
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	137	45	\$1,171.20	75%	85%	\$0.80	104
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	96	45	\$329.48	25%	98%	\$0.30	8
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	22	45	\$329.48	75%	98%	\$1.45	2
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	5413	45	\$5,559.24	25%	85%	\$0.07	81
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1754	45	\$5,559.24	75%	85%	\$0.28	28
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	5666	45	\$2,593.70	25%	85%	\$0.01	42
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	1836	45	\$2,593.70	75%	85%	\$0.11	14
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	0	1447	45	\$6,345.83	25%	85%	\$0.39	61
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	0	477	45	\$6,345.83	75%	85%	\$1.27	21
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	5341	45	\$8,202.62	25%	85%	\$0.10	1,436
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	16001	45	\$23,631.63	25%	10%	\$0.10	13
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	3158	45	\$8,952.76	25%	13%	\$0.25	78
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	7837	45	\$5,558.44	25%	25%	\$0.04	118
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	6997	45	\$7,428.40	25%	4%	\$0.07	334
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	5293	45	\$8,565.26	25%	30%	\$0.11	1,363
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	787	45	\$2,409.66	25%	85%	\$0.26	61
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	186678	45	\$40,656.02	25%	15%	-\$0.01	533
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	195401	45	\$18,968.30	25%	13%	-\$0.02	232
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	0	16218	45	\$46,408.56	25%	10%	\$0.24	82
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	976	20	\$2,834.63	75%	59%	\$0.26	460
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	2880	20	\$7,887.68	75%	60%	\$0.25	40
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	901	20	\$4,190.34	75%	60%	\$0.47	271
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	2951	20	\$4,313.57	75%	60%	\$0.12	315
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	2091	20	\$3,820.59	75%	59%	\$0.13	3,867
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	1318	20	\$2,957.88	75%	59%	\$0.19	1,876
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	199	20	\$862.71	75%	56%	\$0.42	28

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	12745	20	\$13,187.21	75%	55%	\$0.08	371
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	13341	20	\$13,803.44	75%	55%	\$0.08	183
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	0	2875	20	\$14,912.65	75%	58%	\$0.53	241
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	5287	45	\$10,918.19	35%	90%	\$0.15	1,978
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	15803	45	\$31,455.14	35%	45%	\$0.15	81
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	1945	45	\$11,916.68	35%	35%	\$0.58	156
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	16627	45	\$7,398.62	35%	45%	\$0.02	660
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	9748	45	\$9,887.66	35%	15%	\$0.06	2,473
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	10386	45	\$11,400.89	35%	50%	\$0.06	6,674
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	1065	45	\$3,207.40	35%	90%	\$0.25	131
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	70620	45	\$54,115.67	35%	35%	\$0.04	643
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	53368	45	\$25,247.98	35%	35%	\$0.02	227
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	0	23221	45	\$61,772.64	35%	45%	\$0.22	778
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	984	45	\$1,788.32	35%	90%	\$0.13	373
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	218	45	\$1,788.32	35%	90%	\$0.76	28
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	2942	45	\$5,152.14	35%	45%	\$0.13	15
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	255	45	\$5,152.14	35%	45%	\$1.96	0
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	812	45	\$1,951.87	35%	35%	\$0.21	77
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	445	45	\$1,951.87	35%	35%	\$0.41	14
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	2130	45	\$1,211.85	35%	45%	\$0.03	81
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	1355	45	\$1,211.85	35%	45%	\$0.06	18
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	1814	45	\$1,619.53	35%	15%	\$0.05	456
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	374	45	\$1,619.53	35%	15%	\$0.39	32
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	1330	45	\$1,867.38	35%	50%	\$0.09	805
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	282	45	\$1,867.38	35%	50%	\$0.61	60
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	198	45	\$525.35	35%	90%	\$0.22	25
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	45	45	\$525.35	35%	90%	\$1.10	2
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	13145	45	\$8,863.77	35%	35%	\$0.04	116
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	4261	45	\$8,863.77	35%	35%	\$0.18	13



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	9934	45	\$4,135.45	35%	35%	\$0.01	41
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	3220	45	\$4,135.45	35%	35%	\$0.10	5
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	0	2974	45	\$10,117.93	35%	45%	\$0.29	94
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	0	981	45	\$10,117.93	35%	45%	\$0.98	11
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	10660	45	\$8,787.76	10%	35%	\$0.03	480
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	30749	45	\$22,153.46	10%	35%	\$0.03	36
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	11830	45	\$9,105.59	10%	35%	\$0.05	326
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	49572	45	\$14,308.63	10%	35%	\$0.00	455
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	28883	45	\$13,364.83	10%	35%	\$0.01	5,317
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	14399	45	\$6,977.60	10%	35%	\$0.00	1,906
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	2225	45	\$3,663.90	10%	35%	\$0.12	31
Electric	Energy Efficiency	School	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	114957	45	\$16,486.32	10%	35%	-\$0.02	312
Electric	Energy Efficiency	University	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	120329	45	\$17,256.71	10%	35%	-\$0.02	151
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	0	29894	45	\$36,252.27	10%	35%	\$0.07	226
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	515	30	\$1,725.00	10%	95%	\$0.27	20
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	595	30	\$4,800.00	10%	95%	\$0.69	1
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	1177	30	\$2,550.00	10%	95%	\$0.19	29
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	4470	30	\$2,625.00	10%	95%	\$0.03	36
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	1026	30	\$2,325.00	10%	95%	\$0.14	160
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	666	30	\$1,800.00	10%	95%	\$0.22	77
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	109	30	\$525.00	10%	95%	\$0.43	1
Electric	Energy Efficiency	School	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	9835	30	\$8,025.00	10%	95%	\$0.05	24
Electric	Energy Efficiency	University	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	10295	30	\$8,400.00	10%	95%	\$0.05	12
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	0	2258	30	\$9,075.00	10%	95%	\$0.37	15
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1161	10	\$351.92	95%	26%	-\$0.02	369
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	258	10	\$351.92	95%	13%	\$0.13	13

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	3429	10	\$339.91	95%	31%	-\$0.04	33
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	297	10	\$339.91	95%	15%	\$0.02	0
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1073	10	\$476.65	95%	24%	-\$0.03	192
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	588	10	\$476.65	95%	12%	\$0.07	17
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	3513	10	\$790.29	95%	31%	-\$0.01	264
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	2235	10	\$790.29	95%	15%	\$0.02	28
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	2489	10	\$523.76	95%	26%	-\$0.04	3,253
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	513	10	\$523.76	95%	13%	\$0.06	103
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	1569	10	\$351.68	95%	28%	-\$0.02	1,576
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	333	10	\$351.68	95%	14%	\$0.10	55
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	237	10	\$364.60	95%	25%	\$0.17	19
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	54	10	\$364.60	95%	13%	\$0.96	1
Electric	Energy Efficiency	School	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	15173	10	\$330.32	95%	21%	-\$0.03	232
Electric	Energy Efficiency	School	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	4918	10	\$330.32	95%	10%	-\$0.02	12
Electric	Energy Efficiency	University	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	15882	10	\$741.08	95%	21%	-\$0.02	110
Electric	Energy Efficiency	University	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	5148	10	\$741.08	95%	10%	-\$0.01	6
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	0	3422	10	\$327.24	95%	24%	-\$0.03	168
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	0	1129	10	\$327.24	95%	12%	-\$0.01	9
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	1914	30	\$3,566.04	10%	95%	\$0.15	77
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	3277	30	\$9,922.89	10%	95%	\$0.28	3
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	438	30	\$5,271.54	10%	95%	\$1.25	10
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	2306	30	\$5,426.58	10%	95%	\$0.22	18
Electric	Energy Efficiency	Office	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	5408	30	\$4,806.40	10%	95%	\$0.06	891
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	333	30	\$3,721.09	10%	95%	\$1.13	37

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	894	30	\$1,085.31	10%	95%	\$0.08	11
Electric	Energy Efficiency	School	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	2513	30	\$16,589.84	10%	95%	\$0.67	6
Electric	Energy Efficiency	University	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	3174	30	\$17,365.07	10%	95%	\$0.55	3
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	0	355	30	\$18,760.47	10%	95%	\$5.55	2
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	3484	7	\$3,105.00	90%	85%	\$0.11	2,556
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	10287	7	\$8,640.00	90%	85%	\$0.11	92
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	3218	7	\$4,590.00	90%	85%	\$0.18	1,744
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	10538	7	\$4,725.00	90%	85%	\$0.05	1,826
Electric	Energy Efficiency	Office	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	7467	7	\$4,185.00	90%	85%	\$0.03	26,419
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	4708	7	\$3,240.00	90%	85%	\$0.08	11,074
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	711	7	\$945.00	90%	85%	\$0.20	59
Electric	Energy Efficiency	School	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	45519	7	\$14,445.00	90%	85%	\$0.03	2,265
Electric	Energy Efficiency	University	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	47646	7	\$15,120.00	90%	85%	\$0.03	1,143
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	0	10267	7	\$16,335.00	90%	85%	\$0.27	1,374
Electric	Energy Efficiency	School	Space Heat	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	2871	45	\$8,149.30	15%	60%	\$0.25	15
Electric	Energy Efficiency	School	Space Heat	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	930	45	\$8,149.30	80%	60%	\$0.84	11
Electric	Energy Efficiency	University	Space Heat	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	0	3005	45	\$8,530.11	15%	60%	\$0.25	7
Electric	Energy Efficiency	University	Space Heat	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	0	974	45	\$8,530.11	80%	60%	\$0.84	5
Electric	Energy Efficiency	Dry Goods Retail	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	363	45	\$16,787.65	15%	80%	\$4.44	35
Electric	Energy Efficiency	Grocery	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	514	45	\$33,177.25	15%	85%	\$6.19	2
Electric	Energy Efficiency	Hospital	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	278	45	\$22,972.46	15%	60%	\$7.60	14
Electric	Energy Efficiency	Hotel Motel	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	527	45	\$48,690.05	15%	50%	\$8.97	7
Electric	Energy Efficiency	Other Commercial	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	235	45	\$8,963.15	15%	70%	\$3.60	61
Electric	Energy Efficiency	Restaurant	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	36	45	\$7,446.57	15%	80%	\$20.47	1
Electric	Energy Efficiency	School	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	38947	45	\$73,539.29	15%	60%	\$0.16	213
Electric	Energy Efficiency	University	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	40767	45	\$76,975.70	15%	60%	\$0.16	106
Electric	Energy Efficiency	Warehouse	Space Heat	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	0	513	45	\$22,232.39	15%	98%	\$4.24	11

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Fluorescent	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	Existing	0	32796	9	\$0.00	10%	75%	-\$0.02	4,787
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Other	Retrofit	Bi-Level Control, Stairwell Lighting	Occupancy Sensor Control, 50% Lighting Power during unoccupied Time	Continuous Full Power Lighting in Stairways	New	0	1390	9	\$0.00	10%	75%	-\$0.02	50
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Fluorescent	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	Existing	0	15139	8	\$3,899.38	30%	78%	\$0.03	6,134
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Other	Retrofit	Dimming-Continuous, Fluorescent Fixtures	Continuous Dimming, Fluorescent Fixtures (Day-Lighting)	No Dimming Controls	New	0	12830	8	\$3,899.38	30%	78%	\$0.04	1,591
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Fluorescent	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	18038	8	\$1,079.38	90%	42%	-\$0.01	12,589
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior HID	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	977	8	\$1,079.38	90%	42%	\$0.18	441
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Other	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	New	0	6237	8	\$1,079.38	90%	42%	\$0.01	1,272
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Screw Base	Retrofit	Occupancy Sensor Control	Occupancy Sensor Control	No Occupancy Sensor	Existing	0	2138	8	\$1,079.38	90%	42%	\$0.07	752
Electric	Energy Efficiency	Multifamily Common Area	Lighting Interior Other	Retrofit	Exit Sign - LED	Two Sided LED Exit Sign (5 Watts)	CFL Exit Sign (9 Watts)	Existing	0	57	16	\$26.16	95%	50%	\$0.04	61
Electric	Fuel Conversion	Commercial	Water Heating	Existing	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	\$0.00			\$0.76	6
Electric	Fuel Conversion	Commercial	Water Heating	Existing	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	-\$2,787.60			\$0.76	5,326
Electric	Fuel Conversion	Commercial	Space Heating: Ducted	Main	94% Furnace	Furnace - Premium Efficiency	Electric Furnace	Existing	Per installation	76176	30	\$7,305.13			\$0.04	16,182
Electric	Fuel Conversion	Commercial	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	\$0.00			\$0.76	10
Electric	Fuel Conversion	Commercial	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	-\$2,787.60			\$0.76	5,823
Electric	Fuel Conversion	Commercial	Space Heating: Ducted	Main Ext - Short (ft)	94% Furnace	Furnace - Premium Efficiency	Electric Furnace	Existing	Per installation	76176	30	\$7,305.13			\$0.04	6,037
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	\$0.00			\$0.76	4
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	-\$2,787.60			\$0.76	2,172
Electric	Fuel Conversion	Commercial	Space Heating: Ducted	Main Ext - Medium (ft)	94% Furnace	Furnace - Premium Efficiency	Electric Furnace	Existing	Per installation	76176	30	\$7,305.13			\$0.04	12,073
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	\$0.00			\$0.76	7
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 50 gal.	Existing	Per installation	1514	30	-\$2,787.60			\$0.76	4,345
Electric	Fuel Conversion	Commercial	Water Heating	Main	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 50 gal.	New	Per installation	1598	30	\$0.00			\$0.76	3
Electric	Fuel Conversion	Commercial	Water Heating	Main	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 50 gal.	New	Per installation	1598	30	-\$2,787.60			\$0.77	1,675
Electric	Fuel Conversion	Commercial	Space Heating	Main	Gas warm up heat	Gas warm up heat	Electric Furnace	New	Per installation	22469	30	\$6,900.24			\$0.06	458
Electric	Fuel Conversion	Commercial	Space Heating	Main	94% Furnace	Furnace - Premium Efficiency	Electric Furnace	New	Per installation	22469	30	\$2,964.98			\$0.11	632
Electric	Fuel Conversion	Commercial	Space Heating, Water Heating	Main	Boiler	Integrated Space Heating and Water Heating	Packaged Rooftop Unit, Electric Water Heater, 50 gal.	New	Per installation	56928	30	-\$18,062.08			\$0.04	2,898

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Fuel Conversion	Commercial	Space Heating, Water Heating	Main	Boiler	Integrated Space Heating and Water Heating	Packaged Rooftop VAV w/ Electrical Resistance Reheat & Electric Water Heater, 50 gal.	New	Per installation	56928	30	-\$18,062.08			\$0.04	6,464
Electric	Fuel Conversion	Commercial	Space Heating	Main	Gas PACs	Gas PACs	Packaged Rooftop Unit	New	Per installation	37290	30	\$1,293.97			\$0.05	11,007
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Short (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 50 gal.	New	Per installation	1598	30	\$0.00			\$0.76	1
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Short (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 50 gal.	New	Per installation	1598	30	-\$2,787.60			\$0.77	625
Electric	Fuel Conversion	Commercial	Space Heating	Main Ext - Short (ft)	Gas warm up heat	Gas warm up heat	Electric Furnace	New	Per installation	22469	30	\$6,900.24			\$0.06	171
Electric	Fuel Conversion	Commercial	Space Heating	Main Ext - Short (ft)	94% Furnace	Furnace - Premium Efficiency	Electric Furnace	New	Per installation	22469	30	\$2,964.98			\$0.11	236
Electric	Fuel Conversion	Commercial	Space Heating, Water Heating	Main Ext - Short (ft)	Boiler	Integrated Space Heating and Water Heating	Packaged Rooftop Unit, Electric Water Heater, 50 gal.	New	Per installation	56928	30	-\$18,062.08			\$0.04	1,081
Electric	Fuel Conversion	Commercial	Space Heating, Water Heating	Main Ext - Short (ft)	Boiler	Integrated Space Heating and Water Heating	Packaged Rooftop VAV w/ Electrical Resistance Reheat & Electric Water Heater, 50 gal.	New	Per installation	56928	30	-\$18,062.08			\$0.04	2,411
Electric	Fuel Conversion	Commercial	Space Heating	Main Ext - Short (ft)	Gas PACs	Gas PACs	Packaged Rooftop Unit	New	Per installation	37290	30	\$1,293.97			\$0.05	4,106
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Medium (ft)	Tankless WH	Water Heater - ENERGY STAR Tankless	Electric Water Heater, 50 gal.	New	Per installation	1598	30	\$0.00			\$0.76	2
Electric	Fuel Conversion	Commercial	Water Heating	Main Ext - Medium (ft)	WH (>67% EF)	Water Heater - ENERGY STAR Storage	Electric Water Heater, 50 gal.	New	Per installation	1598	30	-\$2,787.60			\$0.77	1,250
Electric	Fuel Conversion	Commercial	Space Heating	Main Ext - Medium (ft)	Gas warm up heat	Gas warm up heat	Electric Furnace	New	Per installation	22469	30	\$6,900.24			\$0.06	342
Electric	Fuel Conversion	Commercial	Space Heating	Main Ext - Medium (ft)	94% Furnace	Furnace - Premium Efficiency	Electric Furnace	New	Per installation	22469	30	\$2,964.98			\$0.11	471
Electric	Fuel Conversion	Commercial	Space Heating, Water Heating	Main Ext - Medium (ft)	Boiler	Integrated Space Heating and Water Heating	Packaged Rooftop Unit, Electric Water Heater, 50 gal.	New	Per installation	56928	30	-\$18,062.08			\$0.04	2,162
Electric	Fuel Conversion	Commercial	Space Heating, Water Heating	Main Ext - Medium (ft)	Boiler	Integrated Space Heating and Water Heating	Packaged Rooftop VAV w/ Electrical Resistance Reheat & Electric Water Heater, 50 gal.	New	Per installation	56928	30	-\$18,062.08			\$0.04	4,823
Electric	Fuel Conversion	Commercial	Space Heating	Main Ext - Medium (ft)	Gas PACs	Gas PACs	Packaged Rooftop Unit	New	Per installation	37290	30	\$1,293.97			\$0.05	8,212

Table 3 – Industrial Electric Measure Detail

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	629797	10	\$50,698.65	26%	100%	\$0.02	136
Electric	Energy Efficiency	Chemical Mfg	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	510004	10	\$12,880.45	20%	100%	-\$0.01	83
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	135281	10	\$0.00	27%	100%	\$0.01	31
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	473485	10	\$40,584.39	23%	100%	\$0.03	86
Electric	Energy Efficiency	Chemical Mfg	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	371574	10	\$29,365.72	51%	100%	\$0.00	137
Electric	Energy Efficiency	Chemical Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	205498	10	\$43,771.02	15%	100%	\$0.02	17
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	14779	10	\$1,625.65	8%	100%	\$0.00	1
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	6764	10	\$744.05	8%	100%	\$0.00	0
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	15745	10	\$1,731.94	8%	100%	\$0.00	1
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	15177	10	\$1,669.42	8%	100%	\$0.00	1
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	959	10	\$105.53	8%	100%	\$0.00	0
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	14779	10	\$2,216.79	11%	100%	\$0.01	1
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	6764	10	\$1,014.61	11%	100%	\$0.01	1
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	15745	10	\$2,361.74	11%	100%	\$0.01	1
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	15177	10	\$2,276.48	11%	100%	\$0.01	1
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	959	10	\$143.91	11%	100%	\$0.01	0
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	14779	10	\$3,399.08	10%	100%	\$0.02	1
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	6764	10	\$1,555.73	10%	100%	\$0.02	1
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	15745	10	\$3,621.33	10%	100%	\$0.02	1
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	15177	10	\$3,490.60	10%	100%	\$0.02	1
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	959	10	\$220.66	10%	100%	\$0.02	0
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	26602	10	\$9,576.55	6%	100%	\$0.04	1
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	12175	10	\$4,383.11	6%	100%	\$0.04	1
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	28341	10	\$10,202.71	6%	100%	\$0.04	1
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	27318	10	\$9,834.38	6%	100%	\$0.04	1
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	1727	10	\$621.69	6%	100%	\$0.04	0
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	14779	10	\$4,581.37	6%	100%	\$0.03	1
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	6764	10	\$2,096.86	6%	100%	\$0.03	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	15745	10	\$4,880.93	6%	100%	\$0.03	1
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	15177	10	\$4,704.72	6%	100%	\$0.03	1
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	959	10	\$297.41	6%	100%	\$0.03	0
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	354687	10	\$7,423.60	27%	100%	\$0.02	74
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	162338	10	\$3,397.72	27%	100%	\$0.02	36
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	377878	10	\$7,908.99	27%	100%	\$0.02	85
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	364236	10	\$7,623.47	27%	100%	\$0.02	82
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	23026	10	\$481.93	27%	100%	\$0.02	5
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	221679	10	\$0.00	31%	100%	\$0.01	51
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	591145	10	\$73,893.14	34%	100%	\$0.03	143
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Pump System Optimization	Pump System Optimization		Existing	Per Industry	1477863	12	\$375,377.15	15%	100%	-\$0.03	190
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	59115	10	\$12,646.39	21%	100%	\$0.02	9
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	27056	10	\$5,788.15	21%	100%	\$0.02	4
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	62980	10	\$13,473.27	21%	100%	\$0.02	10
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	60706	10	\$12,986.87	21%	100%	\$0.02	10
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	3838	10	\$820.98	21%	100%	\$0.02	1
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	44336	10	\$4,406.01	9%	100%	\$0.00	3
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	20292	10	\$2,016.60	9%	100%	\$0.00	2
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	47235	10	\$4,694.09	9%	100%	\$0.00	4
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	45530	10	\$4,524.63	9%	100%	\$0.00	4
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	2878	10	\$286.03	9%	100%	\$0.00	0
Electric	Energy Efficiency	Chemical Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	13710	10	\$1,362.51	9%	100%	\$0.00	1
Electric	Energy Efficiency	Chemical Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	18302	10	\$1,818.83	9%	100%	\$0.00	1
Electric	Energy Efficiency	Chemical Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	10929	10	\$1,086.07	9%	100%	\$0.00	1
Electric	Energy Efficiency	Chemical Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	7177	10	\$713.23	9%	100%	\$0.00	1
Electric	Energy Efficiency	Chemical Mfg	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	12118	32	\$9,210.04	37%	100%	\$0.06	3
Electric	Energy Efficiency	Chemical Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	5547	32	\$4,215.36	37%	100%	\$0.06	1
Electric	Energy Efficiency	Chemical Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	12911	32	\$9,812.24	37%	100%	\$0.06	4
Electric	Energy Efficiency	Chemical Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	12445	32	\$9,458.00	37%	100%	\$0.06	4

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	787	32	\$597.90	37%	100%	\$0.06	0
Electric	Energy Efficiency	Chemical Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	3748	32	\$2,848.11	37%	100%	\$0.06	1
Electric	Energy Efficiency	Chemical Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	5003	32	\$3,801.98	37%	100%	\$0.06	2
Electric	Energy Efficiency	Chemical Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	2987	32	\$2,270.25	37%	100%	\$0.06	1
Electric	Energy Efficiency	Chemical Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1962	32	\$1,490.90	37%	100%	\$0.06	1
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	841446	10	\$67,736.38	26%	100%	\$0.02	182
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	Efficient Lighting 1 Shift	Efficient Lighting 1 Shift		Existing	Per Industry	3592512	10	\$277,903.32	1%	100%	\$0.00	34
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	Efficient Lighting 2 Shift	Efficient Lighting 2 Shift		Existing	Per Industry	3592512	10	\$162,603.00	3%	100%	-\$0.01	86
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	3592512	10	\$90,730.99	15%	100%	-\$0.01	463
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	364804	10	\$0.00	27%	100%	\$0.01	83
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	HighBay Lighting 1 Shift	HighBay Lighting 1 Shift		Existing	Per Industry	2617401	10	\$633,582.91	2%	100%	\$0.02	31
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	HighBay Lighting 2 Shift	HighBay Lighting 2 Shift		Existing	Per Industry	2617401	10	\$370,713.41	4%	100%	\$0.01	71
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	2617401	10	\$206,854.70	23%	100%	\$0.00	438
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	1447544	10	\$308,326.86	15%	100%	\$0.02	137
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	18240	10	\$2,736.03	4%	100%	\$0.01	1
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	21036	10	\$3,155.42	4%	100%	\$0.01	1
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	51925	10	\$7,788.70	4%	100%	\$0.01	2
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	7926	10	\$1,188.91	4%	100%	\$0.01	0
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	18240	10	\$4,195.25	13%	100%	\$0.02	2
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	21036	10	\$4,838.31	13%	100%	\$0.02	2
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	51925	10	\$11,942.67	13%	100%	\$0.02	6
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	7926	10	\$1,823.00	13%	100%	\$0.02	1
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	32832	10	\$11,819.65	20%	100%	\$0.04	5
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	37865	10	\$13,631.42	20%	100%	\$0.04	6
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	93464	10	\$33,647.18	20%	100%	\$0.04	15
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	14267	10	\$5,136.11	20%	100%	\$0.04	2
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	18240	10	\$5,654.46	5%	100%	\$0.03	1
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	21036	10	\$6,521.20	5%	100%	\$0.03	1
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	51925	10	\$16,096.64	5%	100%	\$0.03	2



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	7926	10	\$2,457.09	5%	100%	\$0.03	0
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	437765	10	\$9,162.42	27%	100%	\$0.02	96
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	504867	10	\$10,566.87	27%	100%	\$0.02	114
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	1246192	10	\$26,082.79	27%	100%	\$0.02	280
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	190226	10	\$3,981.43	27%	100%	\$0.02	43
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	72961	10	\$15,608.53	21%	100%	\$0.02	12
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	84145	10	\$18,001.08	21%	100%	\$0.02	13
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	207699	10	\$44,433.04	21%	100%	\$0.02	35
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	31704	10	\$6,782.52	21%	100%	\$0.02	5
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	54721	10	\$5,438.02	9%	100%	\$0.00	4
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	63108	10	\$6,271.58	9%	100%	\$0.00	5
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	155774	10	\$15,480.49	9%	100%	\$0.00	12
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	23778	10	\$2,363.03	9%	100%	\$0.00	2
Electric	Energy Efficiency	Fabricated Metal Products	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	161073	10	\$16,007.09	9%	100%	\$0.00	13
Electric	Energy Efficiency	Fabricated Metal Products	Process Electro Chemical	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	15015	10	\$1,492.14	9%	100%	\$0.00	1
Electric	Energy Efficiency	Fabricated Metal Products	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	82221	10	\$8,170.95	9%	100%	\$0.00	6
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	76982	10	\$7,650.35	9%	100%	\$0.00	5
Electric	Energy Efficiency	Fabricated Metal Products	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	26232	10	\$2,606.89	9%	100%	\$0.00	2
Electric	Energy Efficiency	Fabricated Metal Products	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	14957	32	\$11,367.29	37%	100%	\$0.06	4
Electric	Energy Efficiency	Fabricated Metal Products	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	17250	32	\$13,109.72	37%	100%	\$0.06	5
Electric	Energy Efficiency	Fabricated Metal Products	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	42578	32	\$32,359.44	37%	100%	\$0.06	13
Electric	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6499	32	\$4,939.54	37%	100%	\$0.06	2
Electric	Energy Efficiency	Fabricated Metal Products	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	44027	32	\$33,460.22	37%	100%	\$0.06	14
Electric	Energy Efficiency	Fabricated Metal Products	Process Electro Chemical	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	4104	32	\$3,119.07	37%	100%	\$0.06	1
Electric	Energy Efficiency	Fabricated Metal Products	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	22474	32	\$17,080.05	37%	100%	\$0.06	7
Electric	Energy Efficiency	Fabricated Metal Products	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	21042	32	\$15,991.81	37%	100%	\$0.06	5
Electric	Energy Efficiency	Fabricated Metal Products	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	7170	32	\$5,449.27	37%	100%	\$0.06	2
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	398361	10	\$32,068.08	26%	100%	\$0.02	86
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	Efficient Lighting 1 Shift	Efficient Lighting 1 Shift		Existing	Per Industry	2969896	10	\$229,740.08	4%	100%	\$0.00	99

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	Efficient Lighting 2 Shift	Efficient Lighting 2 Shift		Existing	Per Industry	2969896	10	\$134,422.39	3%	100%	-\$0.01	83
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	2969896	10	\$75,006.46	12%	100%	-\$0.01	292
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	1230264	11	\$151,431.39	27%	100%	\$0.03	232
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	562621	11	\$69,252.16	27%	100%	\$0.03	105
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	577624	11	\$71,098.88	27%	100%	\$0.03	105
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	2925627	11	\$360,111.23	27%	100%	\$0.03	564
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	2205473	11	\$271,468.47	27%	100%	\$0.03	425
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	194007	10	\$0.00	27%	100%	\$0.01	39
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	679025	10	\$58,202.13	23%	100%	\$0.03	101
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Food: Cooling and Storage	Food: Cooling and Storage		Existing	Per Industry	1140762	10	\$342,228.50	100%	100%	\$0.03	750
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Food: Refrig Storage Tuneup	Food: Refrig Storage Tuneup		Existing	Per Industry	570381	3	\$39,926.66	100%	100%	\$0.01	476
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	HighBay Lighting 1 Shift	HighBay Lighting 1 Shift		Existing	Per Industry	2163781	10	\$523,777.09	7%	100%	\$0.02	93
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	HighBay Lighting 2 Shift	HighBay Lighting 2 Shift		Existing	Per Industry	2163781	10	\$306,465.32	5%	100%	\$0.01	71
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	2163781	10	\$171,004.85	18%	100%	\$0.00	277
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	2121144	11	\$418,145.39	22%	100%	-\$0.02	390
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	970035	11	\$191,225.03	22%	100%	-\$0.02	178
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	995903	11	\$196,324.36	22%	100%	-\$0.02	183
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	5044184	11	\$994,370.14	22%	100%	-\$0.02	926
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	3802539	11	\$749,602.11	22%	100%	-\$0.02	698
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	1196671	10	\$254,890.94	15%	100%	\$0.02	114
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	21211	10	\$2,333.26	11%	100%	\$0.00	2
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	9700	10	\$1,067.04	11%	100%	\$0.00	1
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	9959	10	\$1,095.49	11%	100%	\$0.00	1
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	50442	10	\$5,548.60	11%	100%	\$0.00	5
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	38025	10	\$4,182.79	11%	100%	\$0.00	4
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	21211	10	\$3,181.72	10%	100%	\$0.01	2
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	9700	10	\$1,455.05	10%	100%	\$0.01	1
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	9959	10	\$1,493.85	10%	100%	\$0.01	1
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	50442	10	\$7,566.28	10%	100%	\$0.01	4

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	38025	10	\$5,703.81	10%	100%	\$0.01	3
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	21211	10	\$4,878.63	12%	100%	\$0.02	2
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	9700	10	\$2,231.08	12%	100%	\$0.02	1
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	9959	10	\$2,290.58	12%	100%	\$0.02	1
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	50442	10	\$11,601.62	12%	100%	\$0.02	4
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	38025	10	\$8,745.84	12%	100%	\$0.02	3
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	38181	10	\$13,745.01	12%	100%	\$0.04	3
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	17461	10	\$6,285.83	12%	100%	\$0.04	1
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	17926	10	\$6,453.45	12%	100%	\$0.04	1
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	90795	10	\$32,686.31	12%	100%	\$0.04	7
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	68446	10	\$24,640.45	12%	100%	\$0.04	5
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	21211	10	\$6,575.55	11%	100%	\$0.03	1
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	9700	10	\$3,007.11	11%	100%	\$0.03	1
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	9959	10	\$3,087.30	11%	100%	\$0.03	1
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	50442	10	\$15,636.97	11%	100%	\$0.03	4
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	38025	10	\$11,787.87	11%	100%	\$0.03	2
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	509075	10	\$10,654.93	27%	100%	\$0.02	102
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	232809	10	\$4,872.68	27%	100%	\$0.02	45
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	239017	10	\$5,002.62	27%	100%	\$0.02	48
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	1210604	10	\$25,337.95	27%	100%	\$0.02	242
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	912609	10	\$19,100.91	27%	100%	\$0.02	183
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	318172	10	\$0.00	31%	100%	\$0.01	71
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	848458	10	\$106,057.21	34%	100%	\$0.03	183
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	84846	10	\$18,151.08	21%	100%	\$0.02	12
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	38801	10	\$8,300.80	21%	100%	\$0.02	6
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	39836	10	\$8,522.16	21%	100%	\$0.02	6
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	201767	10	\$43,164.16	21%	100%	\$0.02	30
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	152102	10	\$32,539.14	21%	100%	\$0.02	23
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	63634	10	\$6,323.84	9%	100%	\$0.00	4

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	29101	10	\$2,892.00	9%	100%	\$0.00	2
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	29877	10	\$2,969.12	9%	100%	\$0.00	2
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	151326	10	\$15,038.41	9%	100%	\$0.00	11
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	114076	10	\$11,336.65	9%	100%	\$0.00	8
Electric	Energy Efficiency	Food Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	72602	10	\$7,214.99	9%	100%	\$0.00	6
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	63641	10	\$6,324.47	9%	100%	\$0.00	4
Electric	Energy Efficiency	Food Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	37239	10	\$3,700.73	9%	100%	\$0.00	3
Electric	Energy Efficiency	Food Mfg	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	17393	32	\$13,218.97	37%	100%	\$0.06	4
Electric	Energy Efficiency	Food Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	7954	32	\$6,045.26	37%	100%	\$0.06	2
Electric	Energy Efficiency	Food Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	8166	32	\$6,206.47	37%	100%	\$0.06	2
Electric	Energy Efficiency	Food Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	41362	32	\$31,435.36	37%	100%	\$0.06	10
Electric	Energy Efficiency	Food Mfg	Process Refrig	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	31181	32	\$23,697.42	37%	100%	\$0.06	6
Electric	Energy Efficiency	Food Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	19844	32	\$15,081.76	37%	100%	\$0.06	6
Electric	Energy Efficiency	Food Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	17395	32	\$13,220.28	37%	100%	\$0.06	4
Electric	Energy Efficiency	Food Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	10179	32	\$7,735.78	37%	100%	\$0.06	3
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	1161583	10	\$93,507.43	26%	100%	\$0.02	252
Electric	Energy Efficiency	Industrial Machinery	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	8259179	10	\$208,590.41	15%	100%	-\$0.01	1,066
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	503598	10	\$0.00	27%	100%	\$0.01	97
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	1762592	10	\$151,079.31	23%	100%	\$0.03	272
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	2517989	10	\$302,158.63	30%	100%	\$0.00	622
Electric	Energy Efficiency	Industrial Machinery	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	6017402	10	\$475,558.64	23%	100%	\$0.00	1,039
Electric	Energy Efficiency	Industrial Machinery	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	3327901	10	\$708,843.00	15%	100%	\$0.02	335
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	45581	10	\$5,013.92	17%	100%	\$0.00	7
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	25180	10	\$2,769.79	17%	100%	\$0.00	4
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	29040	10	\$3,194.35	17%	100%	\$0.00	4
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	71680	10	\$7,884.80	17%	100%	\$0.00	10
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	45581	10	\$6,837.17	20%	100%	\$0.01	8
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	25180	10	\$3,776.98	20%	100%	\$0.01	4
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	29040	10	\$4,355.94	20%	100%	\$0.01	5

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	71680	10	\$10,751.99	20%	100%	\$0.01	12
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	45581	10	\$10,483.65	4%	100%	\$0.02	1
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	25180	10	\$5,791.37	4%	100%	\$0.02	1
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	29040	10	\$6,679.10	4%	100%	\$0.02	1
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	71680	10	\$16,486.39	4%	100%	\$0.02	2
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	82046	10	\$29,536.56	13%	100%	\$0.04	8
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	45324	10	\$16,316.57	13%	100%	\$0.04	4
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	52271	10	\$18,817.65	13%	100%	\$0.04	5
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	129024	10	\$46,448.62	13%	100%	\$0.04	13
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	45581	10	\$14,130.14	7%	100%	\$0.03	3
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	25180	10	\$7,805.76	7%	100%	\$0.03	1
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	29040	10	\$9,002.27	7%	100%	\$0.03	2
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	71680	10	\$22,220.79	7%	100%	\$0.03	4
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	1093947	10	\$22,896.30	27%	100%	\$0.02	246
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	604317	10	\$12,648.36	27%	100%	\$0.02	112
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	696950	10	\$14,587.16	27%	100%	\$0.02	157
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	1720319	10	\$36,006.28	27%	100%	\$0.02	387
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	683717	10	\$0.00	31%	100%	\$0.01	171
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	1823244	10	\$227,905.53	34%	100%	\$0.03	479
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	182324	10	\$39,004.73	21%	100%	\$0.02	30
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	100720	10	\$21,546.97	21%	100%	\$0.02	14
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	116158	10	\$24,849.79	21%	100%	\$0.02	19
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	286720	10	\$61,338.08	21%	100%	\$0.02	48
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	136743	10	\$13,589.26	9%	100%	\$0.00	11
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	75540	10	\$7,506.97	9%	100%	\$0.00	5
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	87119	10	\$8,657.67	9%	100%	\$0.00	7
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	215040	10	\$21,370.21	9%	100%	\$0.00	17
Electric	Energy Efficiency	Industrial Machinery	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	83496	10	\$8,297.64	9%	100%	\$0.00	7
Electric	Energy Efficiency	Industrial Machinery	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	273356	10	\$27,165.54	9%	100%	\$0.00	21

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Industrial Machinery	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	176982	10	\$17,588.14	9%	100%	\$0.00	11
Electric	Energy Efficiency	Industrial Machinery	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	45167	10	\$4,488.58	9%	100%	\$0.00	4
Electric	Energy Efficiency	Industrial Machinery	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	37377	32	\$28,406.15	37%	100%	\$0.06	10
Electric	Energy Efficiency	Industrial Machinery	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	20648	32	\$15,692.10	37%	100%	\$0.06	5
Electric	Energy Efficiency	Industrial Machinery	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	23812	32	\$18,097.46	37%	100%	\$0.06	7
Electric	Energy Efficiency	Industrial Machinery	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	58778	32	\$44,670.95	37%	100%	\$0.06	18
Electric	Energy Efficiency	Industrial Machinery	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	22822	32	\$17,344.88	37%	100%	\$0.06	7
Electric	Energy Efficiency	Industrial Machinery	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	74717	32	\$56,785.15	37%	100%	\$0.06	23
Electric	Energy Efficiency	Industrial Machinery	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	48375	32	\$36,765.15	37%	100%	\$0.06	11
Electric	Energy Efficiency	Industrial Machinery	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	12346	32	\$9,382.65	37%	100%	\$0.06	4
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	1388502	10	\$111,774.42	26%	100%	\$0.02	301
Electric	Energy Efficiency	Miscellaneous Mfg	Hvac	Retrofit	Clean Room: Change Filter Strategy	Clean Room: Change Filter Strategy		Existing	Per Industry	14605993	1	\$94,748.37	10%	100%	-\$0.01	1,219
Electric	Energy Efficiency	Miscellaneous Mfg	Hvac	Retrofit	Clean Room: Chiller Optimize	Clean Room: Chiller Optimize		Existing	Per Industry	5412555	10	\$440,766.20	28%	100%	\$0.00	1,230
Electric	Energy Efficiency	Miscellaneous Mfg	Hvac	Retrofit	Clean Room: Clean Room HVAC	Clean Room: Clean Room HVAC		Existing	Per Industry	3286348	20	\$532,055.24	30%	100%	\$0.00	757
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	Efficient Lighting 1 Shift	Efficient Lighting 1 Shift		Existing	Per Industry	17307918	10	#####	5%	100%	\$0.00	658
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	Efficient Lighting 2 Shift	Efficient Lighting 2 Shift		Existing	Per Industry	17307918	10	\$783,384.90	3%	100%	-\$0.01	414
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	17307918	10	\$437,121.62	15%	100%	-\$0.01	2,233
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	742800	10	\$0.00	27%	100%	\$0.01	143
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	2599800	10	\$222,840.02	23%	100%	\$0.03	401
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	3714000	10	\$445,680.03	30%	100%	\$0.00	918
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	HighBay Lighting 1 Shift	HighBay Lighting 1 Shift		Existing	Per Industry	12610054	10	#####	8%	100%	\$0.02	597
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	HighBay Lighting 2 Shift	HighBay Lighting 2 Shift		Existing	Per Industry	12610054	10	#####	4%	100%	\$0.01	334
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	12610054	10	\$996,579.65	23%	100%	\$0.00	2,050
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	6973943	10	#####	15%	100%	\$0.02	621
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	21119	10	\$2,323.07	17%	100%	\$0.00	3
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	37140	10	\$4,085.40	17%	100%	\$0.00	5
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	34713	10	\$3,818.38	17%	100%	\$0.00	5
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	149531	10	\$16,448.41	17%	100%	\$0.00	22
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	6346	10	\$698.04	17%	100%	\$0.00	1

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	21119	10	\$3,167.82	20%	100%	\$0.01	4
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	37140	10	\$5,571.00	20%	100%	\$0.01	6
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	34713	10	\$5,206.88	20%	100%	\$0.01	6
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	149531	10	\$22,429.65	20%	100%	\$0.01	25
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	6346	10	\$951.87	20%	100%	\$0.01	1
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	21119	10	\$4,857.33	4%	100%	\$0.02	1
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	37140	10	\$8,542.20	4%	100%	\$0.02	1
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	34713	10	\$7,983.89	4%	100%	\$0.02	1
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	149531	10	\$34,392.13	4%	100%	\$0.02	5
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	6346	10	\$1,459.53	4%	100%	\$0.02	0
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	38014	10	\$13,685.00	11%	100%	\$0.04	3
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	66852	10	\$24,066.72	11%	100%	\$0.04	5
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	62483	10	\$22,493.73	11%	100%	\$0.04	5
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	269156	10	\$96,896.08	11%	100%	\$0.04	25
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	11422	10	\$4,112.06	11%	100%	\$0.04	1
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	21119	10	\$6,546.84	7%	100%	\$0.03	1
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	37140	10	\$11,513.40	7%	100%	\$0.03	2
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	34713	10	\$10,760.89	7%	100%	\$0.03	2
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	149531	10	\$46,354.61	7%	100%	\$0.03	9
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	6346	10	\$1,967.19	7%	100%	\$0.03	0
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	506852	10	\$10,608.41	27%	100%	\$0.02	105
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	891360	10	\$18,656.17	27%	100%	\$0.02	166
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	833101	10	\$17,436.81	27%	100%	\$0.02	187
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	3588744	10	\$75,112.41	27%	100%	\$0.02	806
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	152299	10	\$3,187.61	27%	100%	\$0.02	34
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	316782	10	\$0.00	31%	100%	\$0.01	73
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	844753	10	\$105,594.13	34%	100%	\$0.03	205
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Pump System Optimization	Pump System Optimization		Existing	Per Industry	2111883	12	\$536,418.16	15%	100%	-\$0.03	272
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	84475	10	\$18,071.83	21%	100%	\$0.02	13

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	148560	10	\$31,781.49	21%	100%	\$0.02	21
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	138850	10	\$29,704.27	21%	100%	\$0.02	22
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	598124	10	\$127,956.87	21%	100%	\$0.02	101
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	25383	10	\$5,430.22	21%	100%	\$0.02	4
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	63356	10	\$6,296.23	9%	100%	\$0.00	5
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	111420	10	\$11,072.68	9%	100%	\$0.00	7
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	104138	10	\$10,348.98	9%	100%	\$0.00	8
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	448593	10	\$44,580.22	9%	100%	\$0.00	35
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	19037	10	\$1,891.89	9%	100%	\$0.00	1
Electric	Energy Efficiency	Miscellaneous Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	225466	10	\$22,406.36	9%	100%	\$0.00	18
Electric	Energy Efficiency	Miscellaneous Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	547725	10	\$54,431.72	9%	100%	\$0.00	38
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	370884	10	\$36,857.66	9%	100%	\$0.00	21
Electric	Energy Efficiency	Miscellaneous Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	129591	10	\$12,878.53	9%	100%	\$0.00	10
Electric	Energy Efficiency	Miscellaneous Mfg	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	17317	32	\$13,161.25	37%	100%	\$0.06	4
Electric	Energy Efficiency	Miscellaneous Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	30455	32	\$23,145.65	37%	100%	\$0.06	7
Electric	Energy Efficiency	Miscellaneous Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	28464	32	\$21,632.86	37%	100%	\$0.06	8
Electric	Energy Efficiency	Miscellaneous Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	122615	32	\$93,187.71	37%	100%	\$0.06	37
Electric	Energy Efficiency	Miscellaneous Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	5204	32	\$3,954.69	37%	100%	\$0.06	2
Electric	Energy Efficiency	Miscellaneous Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	61627	32	\$46,836.86	37%	100%	\$0.06	19
Electric	Energy Efficiency	Miscellaneous Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	149711	32	\$113,780.68	37%	100%	\$0.06	42
Electric	Energy Efficiency	Miscellaneous Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	101375	32	\$77,044.96	37%	100%	\$0.06	21
Electric	Energy Efficiency	Miscellaneous Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	35422	32	\$26,920.47	37%	100%	\$0.06	11
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	581620	10	\$46,820.40	26%	100%	\$0.02	126
Electric	Energy Efficiency	Nonmetallic Mineral Products	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	1195300	10	\$30,188.01	13%	100%	-\$0.01	126
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	252158	10	\$0.00	27%	100%	\$0.01	49
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	882553	10	\$75,647.39	23%	100%	\$0.03	136
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	1260790	10	\$151,294.78	30%	100%	\$0.00	312
Electric	Energy Efficiency	Nonmetallic Mineral Products	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	870862	10	\$68,824.68	19%	100%	\$0.00	126
Electric	Energy Efficiency	Nonmetallic Mineral Products	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	481627	10	\$102,586.50	15%	100%	\$0.02	51



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	22823	10	\$5,249.30	17%	100%	\$0.02	3
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	12608	10	\$2,899.82	17%	100%	\$0.02	1
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	14540	10	\$3,344.31	17%	100%	\$0.02	2
Electric	Energy Efficiency	Nonmetallic Mineral Products	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	35891	10	\$8,254.95	17%	100%	\$0.02	5
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	5253	10	\$1,208.17	17%	100%	\$0.02	1
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	41082	10	\$14,789.34	11%	100%	\$0.04	3
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	22694	10	\$8,169.92	11%	100%	\$0.04	2
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	26173	10	\$9,422.24	11%	100%	\$0.04	2
Electric	Energy Efficiency	Nonmetallic Mineral Products	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	64604	10	\$23,257.43	11%	100%	\$0.04	6
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	9455	10	\$3,403.88	11%	100%	\$0.04	1
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	22823	10	\$7,075.15	0%	100%	\$0.03	0
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	12608	10	\$3,908.45	0%	100%	\$0.03	0
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	14540	10	\$4,507.55	0%	100%	\$0.03	0
Electric	Energy Efficiency	Nonmetallic Mineral Products	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	35891	10	\$11,126.24	0%	100%	\$0.03	0
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	5253	10	\$1,628.40	0%	100%	\$0.03	0
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	547753	10	\$11,464.48	27%	100%	\$0.02	123
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	302590	10	\$6,333.20	27%	100%	\$0.02	56
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	348972	10	\$7,303.98	27%	100%	\$0.02	79
Electric	Energy Efficiency	Nonmetallic Mineral Products	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	861386	10	\$18,028.82	27%	100%	\$0.02	194
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	126070	10	\$2,638.63	27%	100%	\$0.02	28
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	342346	10	\$0.00	31%	100%	\$0.01	86
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	912922	10	\$114,115.28	34%	100%	\$0.03	240
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	91292	10	\$19,530.18	21%	100%	\$0.02	15
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	50432	10	\$10,788.85	21%	100%	\$0.02	7
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	58162	10	\$12,442.61	21%	100%	\$0.02	9
Electric	Energy Efficiency	Nonmetallic Mineral Products	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	143564	10	\$30,712.78	21%	100%	\$0.02	24
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	21012	10	\$4,495.02	21%	100%	\$0.02	4
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	68469	10	\$6,804.32	9%	100%	\$0.00	5
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	37824	10	\$3,758.84	9%	100%	\$0.00	3

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	43621	10	\$4,335.01	9%	100%	\$0.00	3
Electric	Energy Efficiency	Nonmetallic Mineral Products	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	107673	10	\$10,700.34	9%	100%	\$0.00	8
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	15759	10	\$1,566.07	9%	100%	\$0.00	1
Electric	Energy Efficiency	Nonmetallic Mineral Products	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	31289	10	\$3,109.43	9%	100%	\$0.00	2
Electric	Energy Efficiency	Nonmetallic Mineral Products	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	25614	10	\$2,545.42	9%	100%	\$0.00	2
Electric	Energy Efficiency	Nonmetallic Mineral Products	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	18715	32	\$14,223.33	37%	100%	\$0.06	5
Electric	Energy Efficiency	Nonmetallic Mineral Products	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	10338	32	\$7,857.24	37%	100%	\$0.06	2
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	11923	32	\$9,061.64	37%	100%	\$0.06	3
Electric	Energy Efficiency	Nonmetallic Mineral Products	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	29431	32	\$22,367.33	37%	100%	\$0.06	9
Electric	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	4307	32	\$3,273.60	37%	100%	\$0.06	1
Electric	Energy Efficiency	Nonmetallic Mineral Products	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	8552	32	\$6,499.77	37%	100%	\$0.06	3
Electric	Energy Efficiency	Nonmetallic Mineral Products	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	7001	32	\$5,320.79	37%	100%	\$0.06	2
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	63930	10	\$5,146.37	26%	100%	\$0.02	14
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Air Compressor Equipment2	Air Compressor Equipment2		Existing	Per Industry	111878	10	\$7,160.17	17%	100%	\$0.02	10
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Air Compressor Optimization	Air Compressor Optimization		Existing	Per Industry	159825	10	\$31,997.01	36%	100%	-\$0.01	42
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Efficient Centrifugal Fan	Efficient Centrifugal Fan		Existing	Per Industry	544796	10	\$99,053.75	11%	100%	\$0.01	42
Electric	Energy Efficiency	Paper Mfg	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	278221	10	\$7,026.63	20%	100%	-\$0.01	46
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	632769	11	\$77,886.63	27%	100%	\$0.03	110
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	399007	11	\$49,113.23	27%	100%	\$0.03	59
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	92699	11	\$11,410.14	27%	100%	\$0.03	13
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	789954	11	\$97,234.26	27%	100%	\$0.03	145
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	30188	11	\$3,715.79	27%	100%	\$0.03	6
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	137589	10	\$0.00	27%	100%	\$0.01	24
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	481560	10	\$41,276.61	23%	100%	\$0.03	57
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	687943	10	\$82,553.21	30%	100%	\$0.00	151
Electric	Energy Efficiency	Paper Mfg	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	202704	10	\$16,019.80	29%	100%	\$0.00	43
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	1090981	11	\$215,067.27	22%	100%	-\$0.02	185
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	687943	11	\$135,615.67	22%	100%	-\$0.02	126
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	159825	11	\$31,506.67	22%	100%	-\$0.02	29

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	1361989	11	\$268,491.62	22%	100%	-\$0.02	250
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	52048	11	\$10,260.35	22%	100%	-\$0.02	10
Electric	Energy Efficiency	Paper Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	112105	10	\$23,878.28	15%	100%	\$0.02	11
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Material Handling VFD2	Material Handling VFD2		Existing	Per Industry	510128	10	\$153,038.51	53%	100%	\$0.03	171
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Material Handling2	Material Handling2		Existing	Per Industry	136459	10	\$63,766.05	53%	100%	\$0.06	39
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	10910	10	\$1,200.08	23%	100%	\$0.00	2
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	6879	10	\$756.74	23%	100%	\$0.00	1
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	1598	10	\$175.81	23%	100%	\$0.00	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	13620	10	\$1,498.19	23%	100%	\$0.00	3
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	520	10	\$57.25	23%	100%	\$0.00	0
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	10910	10	\$1,636.47	13%	100%	\$0.01	1
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	6879	10	\$1,031.92	13%	100%	\$0.01	1
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	1598	10	\$239.74	13%	100%	\$0.01	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	13620	10	\$2,042.98	13%	100%	\$0.01	1
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	520	10	\$78.07	13%	100%	\$0.01	0
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	10910	10	\$2,509.26	9%	100%	\$0.02	1
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	6879	10	\$1,582.27	9%	100%	\$0.02	0
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	1598	10	\$367.60	9%	100%	\$0.02	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	13620	10	\$3,132.57	9%	100%	\$0.02	1
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	520	10	\$119.71	9%	100%	\$0.02	0
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	19638	10	\$7,069.56	6%	100%	\$0.04	1
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	12383	10	\$4,457.87	6%	100%	\$0.04	0
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	2877	10	\$1,035.67	6%	100%	\$0.04	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	24516	10	\$8,825.69	6%	100%	\$0.04	1
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	937	10	\$337.27	6%	100%	\$0.04	0
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	10910	10	\$3,382.04	10%	100%	\$0.03	1
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	6879	10	\$2,132.62	10%	100%	\$0.03	0
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	1598	10	\$495.46	10%	100%	\$0.03	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	13620	10	\$4,222.17	10%	100%	\$0.03	1

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	520	10	\$161.35	10%	100%	\$0.03	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Paper: Efficient Pulp Screen	Paper: Efficient Pulp Screen		Existing	Per Industry	408597	10	\$73,936.55	14%	100%	\$0.01	49
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Paper: Large Material Handling	Paper: Large Material Handling		Existing	Per Industry	265267	10	\$204,051.34	25%	100%	\$0.11	34
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Paper: Material Handling	Paper: Material Handling		Existing	Per Industry	357090	10	\$229,557.76	25%	100%	\$0.09	47
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Paper: Premium Control Large Material	Paper: Premium Control Large Material		Existing	Per Industry	510128	10	\$224,456.48	25%	100%	\$0.05	72
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Paper: Premium Fan	Paper: Premium Fan		Existing	Per Industry	275177	10	\$50,032.25	25%	100%	\$0.01	57
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	261835	10	\$5,480.22	27%	100%	\$0.02	48
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	165106	10	\$3,455.68	27%	100%	\$0.02	25
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	38358	10	\$802.83	27%	100%	\$0.02	6
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	326877	10	\$6,841.54	27%	100%	\$0.02	62
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	12492	10	\$261.45	27%	100%	\$0.02	2
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	163647	10	\$0.00	31%	100%	\$0.01	34
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	436392	10	\$54,549.05	34%	100%	\$0.03	87
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Pump System Optimization	Pump System Optimization		Existing	Per Industry	1090981	12	\$277,109.18	15%	100%	-\$0.03	141
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	43639	10	\$9,335.76	21%	100%	\$0.02	6
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	27518	10	\$5,886.88	21%	100%	\$0.02	3
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	6393	10	\$1,367.66	21%	100%	\$0.02	1
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	54480	10	\$11,654.83	21%	100%	\$0.02	8
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	2082	10	\$445.39	21%	100%	\$0.02	0
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	32729	10	\$3,252.58	9%	100%	\$0.00	2
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	20638	10	\$2,050.99	9%	100%	\$0.00	1
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	4795	10	\$476.49	9%	100%	\$0.00	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	40860	10	\$4,060.55	9%	100%	\$0.00	3
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	1561	10	\$155.17	9%	100%	\$0.00	0
Electric	Energy Efficiency	Paper Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	4729	10	\$469.97	9%	100%	\$0.00	0
Electric	Energy Efficiency	Paper Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	6595	10	\$655.40	9%	100%	\$0.00	1
Electric	Energy Efficiency	Paper Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	5962	10	\$592.48	9%	100%	\$0.00	0
Electric	Energy Efficiency	Paper Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	3142	10	\$312.20	9%	100%	\$0.00	0
Electric	Energy Efficiency	Paper Mfg	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	8946	32	\$6,798.99	37%	100%	\$0.06	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Paper Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	5641	32	\$4,287.26	37%	100%	\$0.06	1
Electric	Energy Efficiency	Paper Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1311	32	\$996.03	37%	100%	\$0.06	0
Electric	Energy Efficiency	Paper Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	11168	32	\$8,487.92	37%	100%	\$0.06	2
Electric	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	427	32	\$324.36	37%	100%	\$0.06	0
Electric	Energy Efficiency	Paper Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1293	32	\$982.40	37%	100%	\$0.06	0
Electric	Energy Efficiency	Paper Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1803	32	\$1,370.01	37%	100%	\$0.06	1
Electric	Energy Efficiency	Paper Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1630	32	\$1,238.48	37%	100%	\$0.06	0
Electric	Energy Efficiency	Paper Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	859	32	\$652.61	37%	100%	\$0.06	0
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	118110	10	\$9,507.83	26%	100%	\$0.02	26
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Air Compressor Equipment2	Air Compressor Equipment2		Existing	Per Industry	206692	10	\$13,228.28	17%	100%	\$0.02	19
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Air Compressor Optimization	Air Compressor Optimization		Existing	Per Industry	295274	10	\$59,113.90	36%	100%	-\$0.01	78
Electric	Energy Efficiency	Petroleum Coal Products	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	72930	10	\$1,841.89	20%	100%	-\$0.01	12
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	268812	11	\$33,087.64	27%	100%	\$0.03	47
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	148497	11	\$18,278.26	27%	100%	\$0.03	24
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	171259	11	\$21,080.03	27%	100%	\$0.03	24
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	422728	11	\$52,032.99	27%	100%	\$0.03	81
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	51206	10	\$0.00	27%	100%	\$0.01	9
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	179220	10	\$15,361.73	23%	100%	\$0.03	23
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	256029	10	\$30,723.47	30%	100%	\$0.00	56
Electric	Energy Efficiency	Petroleum Coal Products	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	53135	10	\$4,199.27	29%	100%	\$0.00	11
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	463468	11	\$91,364.45	22%	100%	-\$0.02	79
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	256029	11	\$50,471.49	22%	100%	-\$0.02	47
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	295274	11	\$58,208.00	22%	100%	-\$0.02	54
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	728841	11	\$143,677.97	22%	100%	-\$0.02	134
Electric	Energy Efficiency	Petroleum Coal Products	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	29386	10	\$6,259.21	15%	100%	\$0.02	3
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	4635	10	\$509.82	8%	100%	\$0.00	0
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	2560	10	\$281.63	8%	100%	\$0.00	0
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	2953	10	\$324.80	8%	100%	\$0.00	0
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	7288	10	\$801.73	8%	100%	\$0.00	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	4635	10	\$695.20	12%	100%	\$0.01	0
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	2560	10	\$384.04	12%	100%	\$0.01	0
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	2953	10	\$442.91	12%	100%	\$0.01	0
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	7288	10	\$1,093.26	12%	100%	\$0.01	1
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	4635	10	\$1,065.98	12%	100%	\$0.02	0
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	2560	10	\$588.87	12%	100%	\$0.02	0
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	2953	10	\$679.13	12%	100%	\$0.02	0
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	7288	10	\$1,676.34	12%	100%	\$0.02	1
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	8342	10	\$3,003.28	8%	100%	\$0.04	0
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	4609	10	\$1,659.07	8%	100%	\$0.04	0
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	5315	10	\$1,913.38	8%	100%	\$0.04	0
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	13119	10	\$4,722.89	8%	100%	\$0.04	1
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	4635	10	\$1,436.75	10%	100%	\$0.03	0
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	2560	10	\$793.69	10%	100%	\$0.03	0
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	2953	10	\$915.35	10%	100%	\$0.03	0
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	7288	10	\$2,259.41	10%	100%	\$0.03	0
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	111232	10	\$2,328.09	27%	100%	\$0.02	21
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	61447	10	\$1,286.08	27%	100%	\$0.02	10
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	70866	10	\$1,483.22	27%	100%	\$0.02	12
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	174922	10	\$3,661.12	27%	100%	\$0.02	35
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	69520	10	\$0.00	31%	100%	\$0.01	14
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	185387	10	\$23,173.42	34%	100%	\$0.03	37
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Pump System Optimization	Pump System Optimization		Existing	Per Industry	463468	12	\$117,720.97	15%	100%	-\$0.03	60
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	18539	10	\$3,966.00	21%	100%	\$0.02	3
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	10241	10	\$2,190.89	21%	100%	\$0.02	1
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	11811	10	\$2,526.72	21%	100%	\$0.02	1
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	29154	10	\$6,236.85	21%	100%	\$0.02	4
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	13904	10	\$1,381.76	9%	100%	\$0.00	1
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	7681	10	\$763.31	9%	100%	\$0.00	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	8858	10	\$880.31	9%	100%	\$0.00	1
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	21865	10	\$2,172.92	9%	100%	\$0.00	2
Electric	Energy Efficiency	Petroleum Coal Products	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	2141	10	\$212.82	9%	100%	\$0.00	0
Electric	Energy Efficiency	Petroleum Coal Products	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	1563	10	\$155.31	9%	100%	\$0.00	0
Electric	Energy Efficiency	Petroleum Coal Products	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	542	10	\$53.88	9%	100%	\$0.00	0
Electric	Energy Efficiency	Petroleum Coal Products	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	3800	32	\$2,888.34	37%	100%	\$0.06	1
Electric	Energy Efficiency	Petroleum Coal Products	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	2099	32	\$1,595.57	37%	100%	\$0.06	0
Electric	Energy Efficiency	Petroleum Coal Products	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	2421	32	\$1,840.15	37%	100%	\$0.06	0
Electric	Energy Efficiency	Petroleum Coal Products	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	5976	32	\$4,542.14	37%	100%	\$0.06	1
Electric	Energy Efficiency	Petroleum Coal Products	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	585	32	\$444.86	37%	100%	\$0.06	0
Electric	Energy Efficiency	Petroleum Coal Products	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	427	32	\$324.64	37%	100%	\$0.06	0
Electric	Energy Efficiency	Petroleum Coal Products	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	148	32	\$112.62	37%	100%	\$0.06	0
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	387032	10	\$31,156.09	26%	100%	\$0.02	84
Electric	Energy Efficiency	Plastics Rubber Products	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	1460869	10	\$36,895.10	13%	100%	-\$0.01	154
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	167796	10	\$0.00	27%	100%	\$0.01	32
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	587285	10	\$50,338.69	23%	100%	\$0.03	90
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	838978	10	\$100,677.37	30%	100%	\$0.00	207
Electric	Energy Efficiency	Plastics Rubber Products	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	1064347	10	\$84,115.97	19%	100%	\$0.00	154
Electric	Energy Efficiency	Plastics Rubber Products	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	588633	10	\$125,378.89	15%	100%	\$0.02	62
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	15187	10	\$1,670.61	17%	100%	\$0.00	2
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	8390	10	\$922.88	17%	100%	\$0.00	1
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Motors: Rewind 501-5000 HP	Motors: Rewind 501-5000 HP		Existing	Per Industry	9676	10	\$1,064.34	17%	100%	\$0.00	1
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	15187	10	\$2,278.10	20%	100%	\$0.01	3
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	8390	10	\$1,258.47	20%	100%	\$0.01	1
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	9676	10	\$1,451.37	20%	100%	\$0.01	2
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	15187	10	\$3,493.09	4%	100%	\$0.02	0
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	8390	10	\$1,929.65	4%	100%	\$0.02	0
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	9676	10	\$2,225.44	4%	100%	\$0.02	0
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	27337	10	\$9,841.40	11%	100%	\$0.04	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	15102	10	\$5,436.58	11%	100%	\$0.04	1
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	17416	10	\$6,269.92	11%	100%	\$0.04	2
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	15187	10	\$4,708.08	7%	100%	\$0.03	1
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	8390	10	\$2,600.83	7%	100%	\$0.03	0
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	9676	10	\$2,999.50	7%	100%	\$0.03	1
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	364496	10	\$7,628.90	27%	100%	\$0.02	82
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	201355	10	\$4,214.35	27%	100%	\$0.02	37
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	232219	10	\$4,860.35	27%	100%	\$0.02	52
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	227810	10	\$0.00	31%	100%	\$0.01	57
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	607494	10	\$75,936.70	34%	100%	\$0.03	160
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	60749	10	\$12,996.13	21%	100%	\$0.02	10
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	33559	10	\$7,179.32	21%	100%	\$0.02	5
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	38703	10	\$8,279.79	21%	100%	\$0.02	6
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	45562	10	\$4,527.86	9%	100%	\$0.00	4
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	25169	10	\$2,501.28	9%	100%	\$0.00	2
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	29027	10	\$2,884.68	9%	100%	\$0.00	2
Electric	Energy Efficiency	Plastics Rubber Products	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	55953	10	\$5,560.53	9%	100%	\$0.00	4
Electric	Energy Efficiency	Plastics Rubber Products	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	39219	10	\$3,897.54	9%	100%	\$0.00	3
Electric	Energy Efficiency	Plastics Rubber Products	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	31304	10	\$3,110.96	9%	100%	\$0.00	2
Electric	Energy Efficiency	Plastics Rubber Products	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	13742	10	\$1,365.64	9%	100%	\$0.00	1
Electric	Energy Efficiency	Plastics Rubber Products	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	12454	32	\$9,464.75	37%	100%	\$0.06	3
Electric	Energy Efficiency	Plastics Rubber Products	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6880	32	\$5,228.51	37%	100%	\$0.06	2
Electric	Energy Efficiency	Plastics Rubber Products	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	7934	32	\$6,029.96	37%	100%	\$0.06	2
Electric	Energy Efficiency	Plastics Rubber Products	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	15294	32	\$11,623.39	37%	100%	\$0.06	5
Electric	Energy Efficiency	Plastics Rubber Products	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	10720	32	\$8,147.18	37%	100%	\$0.06	3
Electric	Energy Efficiency	Plastics Rubber Products	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	8557	32	\$6,502.95	37%	100%	\$0.06	2
Electric	Energy Efficiency	Plastics Rubber Products	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	3756	32	\$2,854.64	37%	100%	\$0.06	1
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	73246	10	\$5,896.29	26%	100%	\$0.02	16
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Air Compressor Equipment2	Air Compressor Equipment2		Existing	Per Industry	128180	10	\$8,203.54	17%	100%	\$0.02	14



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Air Compressor Optimization	Air Compressor Optimization		Existing	Per Industry	183115	10	\$36,659.57	36%	100%	-\$0.01	54
Electric	Energy Efficiency	Primary Metal Mfg	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	204335	10	\$5,160.61	13%	100%	-\$0.01	22
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	39184	10	\$0.00	27%	100%	\$0.01	9
Electric	Energy Efficiency	Primary Metal Mfg	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	148873	10	\$11,765.50	19%	100%	\$0.00	21
Electric	Energy Efficiency	Primary Metal Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	82334	10	\$17,537.05	15%	100%	\$0.02	9
Electric	Energy Efficiency	Primary Metal Mfg	Process Electro Chemical	Retrofit	Metal: New Arc Furnace	Metal: New Arc Furnace		Existing	Per Industry	1253016	10	\$115,687.89	10%	100%	-\$1.86	105
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	1114	10	\$256.23	17%	100%	\$0.02	0
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	1959	10	\$450.62	17%	100%	\$0.02	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	1831	10	\$421.16	17%	100%	\$0.02	0
Electric	Energy Efficiency	Primary Metal Mfg	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	7888	10	\$1,814.24	17%	100%	\$0.02	1
Electric	Energy Efficiency	Primary Metal Mfg	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	356	10	\$81.82	17%	100%	\$0.02	0
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	2005	10	\$721.91	11%	100%	\$0.04	0
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	3527	10	\$1,269.56	11%	100%	\$0.04	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	3296	10	\$1,186.58	11%	100%	\$0.04	0
Electric	Energy Efficiency	Primary Metal Mfg	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	14198	10	\$5,111.44	11%	100%	\$0.04	1
Electric	Energy Efficiency	Primary Metal Mfg	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	640	10	\$230.52	11%	100%	\$0.04	0
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	1114	10	\$345.36	0%	100%	\$0.03	0
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	1959	10	\$607.35	0%	100%	\$0.03	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	1831	10	\$567.66	0%	100%	\$0.03	0
Electric	Energy Efficiency	Primary Metal Mfg	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	7888	10	\$2,445.29	0%	100%	\$0.03	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	356	10	\$110.28	0%	100%	\$0.03	0
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	26737	10	\$559.61	27%	100%	\$0.02	6
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	47021	10	\$984.15	27%	100%	\$0.02	10
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	43948	10	\$919.82	27%	100%	\$0.02	8
Electric	Energy Efficiency	Primary Metal Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	189312	10	\$3,962.31	27%	100%	\$0.02	43
Electric	Energy Efficiency	Primary Metal Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	8538	10	\$178.70	27%	100%	\$0.02	2
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	16711	10	\$0.00	31%	100%	\$0.01	4
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	4456	10	\$953.32	21%	100%	\$0.02	1
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	7837	10	\$1,676.53	21%	100%	\$0.02	1

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	7325	10	\$1,566.95	21%	100%	\$0.02	1
Electric	Energy Efficiency	Primary Metal Mfg	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	31552	10	\$6,749.95	21%	100%	\$0.02	5
Electric	Energy Efficiency	Primary Metal Mfg	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	1423	10	\$304.42	21%	100%	\$0.02	0
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	3342	10	\$332.14	9%	100%	\$0.00	0
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	5878	10	\$584.10	9%	100%	\$0.00	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	5493	10	\$545.93	9%	100%	\$0.00	0
Electric	Energy Efficiency	Primary Metal Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	23664	10	\$2,351.68	9%	100%	\$0.00	2
Electric	Energy Efficiency	Primary Metal Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	1067	10	\$106.06	9%	100%	\$0.00	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	38227	10	\$3,798.89	9%	100%	\$0.00	3
Electric	Energy Efficiency	Primary Metal Mfg	Process Electro Chemical	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	41767	10	\$4,150.74	9%	100%	\$0.00	3
Electric	Energy Efficiency	Primary Metal Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	4476	10	\$444.77	9%	100%	\$0.00	0
Electric	Energy Efficiency	Primary Metal Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	4379	10	\$435.14	9%	100%	\$0.00	0
Electric	Energy Efficiency	Primary Metal Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	1596	10	\$158.60	9%	100%	\$0.00	0
Electric	Energy Efficiency	Primary Metal Mfg	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	914	32	\$694.28	37%	100%	\$0.06	0
Electric	Energy Efficiency	Primary Metal Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1607	32	\$1,220.97	37%	100%	\$0.06	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1502	32	\$1,141.17	37%	100%	\$0.06	0
Electric	Energy Efficiency	Primary Metal Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6468	32	\$4,915.81	37%	100%	\$0.06	2
Electric	Energy Efficiency	Primary Metal Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	292	32	\$221.70	37%	100%	\$0.06	0
Electric	Energy Efficiency	Primary Metal Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	10449	32	\$7,940.96	37%	100%	\$0.06	3
Electric	Energy Efficiency	Primary Metal Mfg	Process Electro Chemical	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	11416	32	\$8,676.44	37%	100%	\$0.06	3
Electric	Energy Efficiency	Primary Metal Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1223	32	\$929.72	37%	100%	\$0.06	0
Electric	Energy Efficiency	Primary Metal Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1197	32	\$909.58	37%	100%	\$0.06	0
Electric	Energy Efficiency	Primary Metal Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	436	32	\$331.53	37%	100%	\$0.06	0
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	832822	10	\$67,042.14	26%	100%	\$0.02	180
Electric	Energy Efficiency	Printing Related Support	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	4295719	10	\$108,490.91	13%	100%	-\$0.01	453
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	361065	10	\$0.00	27%	100%	\$0.01	70
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	1263728	10	\$108,319.52	23%	100%	\$0.03	195
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	1805325	10	\$216,639.04	30%	100%	\$0.00	446
Electric	Energy Efficiency	Printing Related Support	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	3129738	10	\$247,344.97	19%	100%	\$0.00	451

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Printing Related Support	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	1730890	10	\$368,679.55	15%	100%	\$0.02	183
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	32680	10	\$7,516.48	17%	100%	\$0.02	4
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	18053	10	\$4,152.25	17%	100%	\$0.02	2
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	20821	10	\$4,788.72	17%	100%	\$0.02	3
Electric	Energy Efficiency	Printing Related Support	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	959	10	\$220.54	17%	100%	\$0.02	0
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	58825	10	\$21,176.86	11%	100%	\$0.04	5
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	32496	10	\$11,698.51	11%	100%	\$0.04	2
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	37477	10	\$13,491.71	11%	100%	\$0.04	3
Electric	Energy Efficiency	Printing Related Support	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	1726	10	\$621.35	11%	100%	\$0.04	0
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	32680	10	\$10,130.91	0%	100%	\$0.03	0
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	18053	10	\$5,596.51	0%	100%	\$0.03	0
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	20821	10	\$6,454.37	0%	100%	\$0.03	0
Electric	Energy Efficiency	Printing Related Support	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	959	10	\$297.25	0%	100%	\$0.03	0
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	784328	10	\$16,415.99	27%	100%	\$0.02	177
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	433278	10	\$9,068.51	27%	100%	\$0.02	81
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	499693	10	\$10,458.57	27%	100%	\$0.02	112
Electric	Energy Efficiency	Printing Related Support	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	23013	10	\$481.66	27%	100%	\$0.02	5
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	490205	10	\$0.00	31%	100%	\$0.01	123
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	1307214	10	\$163,401.71	34%	100%	\$0.03	344
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	130721	10	\$27,965.27	21%	100%	\$0.02	22
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	72213	10	\$15,448.56	21%	100%	\$0.02	10
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	83282	10	\$17,816.58	21%	100%	\$0.02	13
Electric	Energy Efficiency	Printing Related Support	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	3835	10	\$820.52	21%	100%	\$0.02	1
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	98041	10	\$9,743.11	9%	100%	\$0.00	8
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	54160	10	\$5,382.28	9%	100%	\$0.00	4
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	62462	10	\$6,207.30	9%	100%	\$0.00	5
Electric	Energy Efficiency	Printing Related Support	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	2877	10	\$285.87	9%	100%	\$0.00	0
Electric	Energy Efficiency	Printing Related Support	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	21956	10	\$2,181.95	9%	100%	\$0.00	2
Electric	Energy Efficiency	Printing Related Support	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	142714	10	\$14,182.66	9%	100%	\$0.00	11

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Printing Related Support	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	92051	10	\$9,147.85	9%	100%	\$0.00	6
Electric	Energy Efficiency	Printing Related Support	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	48080	10	\$4,778.12	9%	100%	\$0.00	4
Electric	Energy Efficiency	Printing Related Support	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	26798	32	\$20,366.39	37%	100%	\$0.06	7
Electric	Energy Efficiency	Printing Related Support	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	14804	32	\$11,250.79	37%	100%	\$0.06	3
Electric	Energy Efficiency	Printing Related Support	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	17073	32	\$12,975.36	37%	100%	\$0.06	5
Electric	Energy Efficiency	Printing Related Support	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	786	32	\$597.57	37%	100%	\$0.06	0
Electric	Energy Efficiency	Printing Related Support	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6001	32	\$4,561.01	37%	100%	\$0.06	2
Electric	Energy Efficiency	Printing Related Support	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	39009	32	\$29,646.55	37%	100%	\$0.06	12
Electric	Energy Efficiency	Printing Related Support	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	25161	32	\$19,122.09	37%	100%	\$0.06	6
Electric	Energy Efficiency	Printing Related Support	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	13142	32	\$9,987.88	37%	100%	\$0.06	4
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	1197994	10	\$96,438.50	26%	100%	\$0.02	259
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Air Compressor Equipment2	Air Compressor Equipment2		Existing	Per Industry	2096489	10	\$134,175.31	17%	100%	\$0.02	222
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Air Compressor Optimization	Air Compressor Optimization		Existing	Per Industry	2994985	10	\$599,595.90	36%	100%	-\$0.01	890
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	Efficient Lighting 1 Shift	Efficient Lighting 1 Shift		Existing	Per Industry	5966257	10	\$461,527.37	5%	100%	\$0.00	234
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	Efficient Lighting 2 Shift	Efficient Lighting 2 Shift		Existing	Per Industry	5966257	10	\$270,042.61	2%	100%	-\$0.01	87
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	5966257	10	\$150,681.31	13%	100%	-\$0.01	629
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	257331	10	\$0.00	27%	100%	\$0.01	50
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	900658	10	\$77,199.24	23%	100%	\$0.03	139
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	1286654	10	\$154,398.48	30%	100%	\$0.00	318
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	HighBay Lighting 1 Shift	HighBay Lighting 1 Shift		Existing	Per Industry	4346844	10	#####	8%	100%	\$0.02	219
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	HighBay Lighting 2 Shift	HighBay Lighting 2 Shift		Existing	Per Industry	4346844	10	\$615,661.54	3%	100%	\$0.01	74
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	4346844	10	\$343,533.52	19%	100%	\$0.00	596
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	2404006	10	\$512,053.21	15%	100%	\$0.02	228
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	12867	10	\$2,959.30	17%	100%	\$0.02	2
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	29950	10	\$6,888.46	17%	100%	\$0.02	3
Electric	Energy Efficiency	Transportation Equipment Mfg	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	28869	10	\$6,639.78	17%	100%	\$0.02	4
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	7358	10	\$1,692.39	17%	100%	\$0.02	1
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	23160	10	\$8,337.52	11%	100%	\$0.04	2
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	53910	10	\$19,407.50	11%	100%	\$0.04	4

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Transportation Equipment Mfg	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	51964	10	\$18,706.87	11%	100%	\$0.04	5
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	13245	10	\$4,768.12	11%	100%	\$0.04	1
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	12867	10	\$3,988.63	0%	100%	\$0.03	0
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	29950	10	\$9,284.45	0%	100%	\$0.03	0
Electric	Energy Efficiency	Transportation Equipment Mfg	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	28869	10	\$8,949.27	0%	100%	\$0.03	0
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	7358	10	\$2,281.05	0%	100%	\$0.03	0
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	308797	10	\$6,463.12	27%	100%	\$0.02	58
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	718796	10	\$15,044.41	27%	100%	\$0.02	133
Electric	Energy Efficiency	Transportation Equipment Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	692847	10	\$14,501.29	27%	100%	\$0.02	156
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	176597	10	\$3,696.18	27%	100%	\$0.02	40
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	51466	10	\$11,010.17	21%	100%	\$0.02	7
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	119799	10	\$25,628.72	21%	100%	\$0.02	15
Electric	Energy Efficiency	Transportation Equipment Mfg	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	115474	10	\$24,703.50	21%	100%	\$0.02	20
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	29433	10	\$6,296.58	21%	100%	\$0.02	5
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	38600	10	\$3,835.95	9%	100%	\$0.00	3
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	89850	10	\$8,929.06	9%	100%	\$0.00	6
Electric	Energy Efficiency	Transportation Equipment Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	86606	10	\$8,606.71	9%	100%	\$0.00	7
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	22075	10	\$2,193.73	9%	100%	\$0.00	2
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	118449	10	\$11,771.24	9%	100%	\$0.00	9
Electric	Energy Efficiency	Transportation Equipment Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	167813	10	\$16,676.95	9%	100%	\$0.00	13
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	127848	10	\$12,705.30	9%	100%	\$0.00	8
Electric	Energy Efficiency	Transportation Equipment Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	47211	10	\$4,691.68	9%	100%	\$0.00	4
Electric	Energy Efficiency	Transportation Equipment Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	10551	32	\$8,018.43	37%	100%	\$0.06	2
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	24559	32	\$18,664.74	37%	100%	\$0.06	5
Electric	Energy Efficiency	Transportation Equipment Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	23672	32	\$17,990.93	37%	100%	\$0.06	7
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6034	32	\$4,585.64	37%	100%	\$0.06	2
Electric	Energy Efficiency	Transportation Equipment Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	32376	32	\$24,605.87	37%	100%	\$0.06	10
Electric	Energy Efficiency	Transportation Equipment Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	45869	32	\$34,860.45	37%	100%	\$0.06	14
Electric	Energy Efficiency	Transportation Equipment Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	34945	32	\$26,558.37	37%	100%	\$0.06	8

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Transportation Equipment Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	12904	32	\$9,807.20	37%	100%	\$0.06	4
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	1054210	10	\$84,863.92	26%	100%	\$0.02	228
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Air Compressor Equipment2	Air Compressor Equipment2		Existing	Per Industry	1844868	10	\$118,071.54	17%	100%	\$0.02	195
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Air Compressor Optimization	Air Compressor Optimization		Existing	Per Industry	2635526	10	\$527,632.21	36%	100%	-\$0.01	783
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Efficient Centrifugal Fan	Efficient Centrifugal Fan		Existing	Per Industry	2602164	10	\$473,120.81	11%	100%	\$0.01	195
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	Efficient Lighting 1 Shift	Efficient Lighting 1 Shift		Existing	Per Industry	2130202	10	\$164,784.51	4%	100%	\$0.00	71
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	Efficient Lighting 2 Shift	Efficient Lighting 2 Shift		Existing	Per Industry	2130202	10	\$96,416.47	5%	100%	-\$0.01	88
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	2130202	10	\$53,799.51	10%	100%	-\$0.01	182
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	457047	10	\$0.00	27%	100%	\$0.01	88
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	1599664	10	\$137,114.05	23%	100%	\$0.03	247
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	2285234	10	\$274,228.10	30%	100%	\$0.00	565
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	HighBay Lighting 1 Shift	HighBay Lighting 1 Shift		Existing	Per Industry	1552005	10	\$375,686.95	7%	100%	\$0.02	66
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	HighBay Lighting 2 Shift	HighBay Lighting 2 Shift		Existing	Per Industry	1552005	10	\$219,816.83	7%	100%	\$0.01	76
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	1552005	10	\$122,655.78	15%	100%	\$0.00	172
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	858330	10	\$182,824.34	15%	100%	\$0.02	82
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Material Handling VFD2	Material Handling VFD2		Existing	Per Industry	2436580	10	\$730,973.89	53%	100%	\$0.03	874
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Material Handling2	Material Handling2		Existing	Per Industry	651785	10	\$304,572.45	53%	100%	\$0.06	210
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	22852	10	\$3,427.85	8%	100%	\$0.01	2
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	26355	10	\$3,953.29	8%	100%	\$0.01	2
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	65054	10	\$9,758.12	8%	100%	\$0.01	5
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Motors: Rewind 201-500 HP	Motors: Rewind 201-500 HP		Existing	Per Industry	923	10	\$138.52	8%	100%	\$0.01	0
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	22852	10	\$5,256.04	29%	100%	\$0.02	4
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	26355	10	\$6,061.71	29%	100%	\$0.02	4
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	65054	10	\$14,962.45	29%	100%	\$0.02	13
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	923	10	\$212.39	29%	100%	\$0.02	0
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	41134	10	\$14,808.32	9%	100%	\$0.04	2
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	47439	10	\$17,078.21	9%	100%	\$0.04	3
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	117097	10	\$42,155.06	9%	100%	\$0.04	7
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	1662	10	\$598.40	9%	100%	\$0.04	0

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	22852	10	\$7,084.23	12%	100%	\$0.03	2
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	26355	10	\$8,170.13	12%	100%	\$0.03	2
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	65054	10	\$20,166.77	12%	100%	\$0.03	5
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	923	10	\$286.27	12%	100%	\$0.03	0
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	548456	10	\$11,479.19	27%	100%	\$0.02	102
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	632526	10	\$13,238.77	27%	100%	\$0.02	117
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	1561299	10	\$32,677.98	27%	100%	\$0.02	294
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	22163	10	\$463.87	27%	100%	\$0.02	5
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	91409	10	\$19,555.24	21%	100%	\$0.02	13
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	105421	10	\$22,552.76	21%	100%	\$0.02	13
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	260216	10	\$55,668.19	21%	100%	\$0.02	37
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	3694	10	\$790.22	21%	100%	\$0.02	1
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Wood: Replace Pneumatic Conveyor	Wood: Replace Pneumatic Conveyor		Existing	Per Industry	3773138	10	\$54,710.51	50%	100%	-\$0.07	1,575
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	68557	10	\$6,813.05	9%	100%	\$0.00	5
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	79066	10	\$7,857.39	9%	100%	\$0.00	5
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	195162	10	\$19,394.82	9%	100%	\$0.00	13
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	2770	10	\$275.31	9%	100%	\$0.00	0
Electric	Energy Efficiency	Wood Product Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	49002	10	\$4,869.73	9%	100%	\$0.00	4
Electric	Energy Efficiency	Wood Product Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	32685	10	\$3,248.17	9%	100%	\$0.00	3
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	45647	10	\$4,536.32	9%	100%	\$0.00	3
Electric	Energy Efficiency	Wood Product Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	26788	10	\$2,662.18	9%	100%	\$0.00	2
Electric	Energy Efficiency	Wood Product Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	18739	32	\$14,241.58	37%	100%	\$0.06	4
Electric	Energy Efficiency	Wood Product Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	21611	32	\$16,424.60	37%	100%	\$0.06	5
Electric	Energy Efficiency	Wood Product Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	53344	32	\$40,541.72	37%	100%	\$0.06	12
Electric	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	757	32	\$575.49	37%	100%	\$0.06	0
Electric	Energy Efficiency	Wood Product Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	13394	32	\$10,179.37	37%	100%	\$0.06	4
Electric	Energy Efficiency	Wood Product Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	8934	32	\$6,789.77	37%	100%	\$0.06	3
Electric	Energy Efficiency	Wood Product Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	12477	32	\$9,482.44	37%	100%	\$0.06	3
Electric	Energy Efficiency	Wood Product Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	7322	32	\$5,564.86	37%	100%	\$0.06	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	11244969	10	\$905,220.02	26%	100%	\$0.02	2,436
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Air Compressor Equipment2	Air Compressor Equipment2		Existing	Per Industry	19678696	10	#####	17%	100%	\$0.02	1,840
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Air Compressor Optimization	Air Compressor Optimization		Existing	Per Industry	28112423	10	#####	36%	100%	-\$0.01	7,434
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	Efficient Lighting 1 Shift	Efficient Lighting 1 Shift		Existing	Per Industry	1189045	10	\$91,980.09	5%	100%	\$0.00	47
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	Efficient Lighting 2 Shift	Efficient Lighting 2 Shift		Existing	Per Industry	1189045	10	\$53,818.14	2%	100%	-\$0.01	17
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	1189045	10	\$30,030.03	13%	100%	-\$0.01	125
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	4334919	11	\$533,578.94	27%	100%	\$0.03	754
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	16305205	11	#####	27%	100%	\$0.03	2,252
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	HighBay Lighting 1 Shift	HighBay Lighting 1 Shift		Existing	Per Industry	866304	10	\$209,702.49	8%	100%	\$0.02	44
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	HighBay Lighting 2 Shift	HighBay Lighting 2 Shift		Existing	Per Industry	866304	10	\$122,698.26	3%	100%	\$0.01	15
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	866304	10	\$68,464.51	19%	100%	\$0.00	119
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	7473998	11	#####	22%	100%	-\$0.02	1,267
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	28112423	11	#####	22%	100%	-\$0.02	5,164
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	479106	10	\$102,049.64	15%	100%	\$0.02	45
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	74740	10	\$17,190.19	17%	100%	\$0.02	8
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	281124	10	\$64,658.57	17%	100%	\$0.02	25
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	134532	10	\$48,431.50	11%	100%	\$0.04	8
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	506024	10	\$182,168.50	11%	100%	\$0.04	27
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	74740	10	\$23,169.39	0%	100%	\$0.03	0
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	281124	10	\$87,148.51	0%	100%	\$0.03	0
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	1793759	10	\$37,543.39	27%	100%	\$0.02	332
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	6746982	10	\$141,214.32	27%	100%	\$0.02	1,111
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	1121100	10	\$0.00	31%	100%	\$0.01	230
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	2989599	10	\$373,699.88	34%	100%	\$0.03	595
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Pump System Optimization	Pump System Optimization		Existing	Per Industry	7473998	12	#####	15%	100%	-\$0.03	963
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	298960	10	\$63,956.60	21%	100%	\$0.02	41
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	1124497	10	\$240,564.02	21%	100%	\$0.02	121
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	224220	10	\$22,282.50	9%	100%	\$0.00	14
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	843373	10	\$83,812.59	9%	100%	\$0.00	48



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	25480	10	\$2,532.10	9%	100%	\$0.00	2
Electric	Energy Efficiency	Wastewater	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	178357	10	\$17,724.72	9%	100%	\$0.00	14
Electric	Energy Efficiency	Wastewater	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	61287	32	\$46,577.95	37%	100%	\$0.06	13
Electric	Energy Efficiency	Wastewater	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	230522	32	\$175,196.62	37%	100%	\$0.06	40
Electric	Energy Efficiency	Wastewater	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6964	32	\$5,292.95	37%	100%	\$0.06	2
Electric	Energy Efficiency	Wastewater	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	48751	32	\$37,050.64	37%	100%	\$0.06	15
Electric	Energy Efficiency	Water	Lighting	Retrofit	Efficient Lighting 1 Shift	Efficient Lighting 1 Shift		Existing	Per Industry	7024343	10	\$543,377.02	5%	100%	\$0.00	276
Electric	Energy Efficiency	Water	Lighting	Retrofit	Efficient Lighting 2 Shift	Efficient Lighting 2 Shift		Existing	Per Industry	7024343	10	\$317,933.36	2%	100%	-\$0.01	102
Electric	Energy Efficiency	Water	Lighting	Retrofit	Efficient Lighting 3 Shift	Efficient Lighting 3 Shift		Existing	Per Industry	7024343	10	\$177,403.91	13%	100%	-\$0.01	741
Electric	Energy Efficiency	Water	Pumps	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	93122723	11	#####	27%	100%	\$0.03	16,189
Electric	Energy Efficiency	Water	Fans	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	14404921	11	#####	27%	100%	\$0.03	2,303
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Energy Project Management	Energy Project Management		Existing	Per Industry	14404921	11	#####	27%	100%	\$0.03	2,778
Electric	Energy Efficiency	Water	Fans	Retrofit	Fan Energy Management	Fan Energy Management		Existing	Per Industry	4967214	10	\$0.00	27%	100%	\$0.01	854
Electric	Energy Efficiency	Water	Fans	Retrofit	Fan Equipment Upgrade	Fan Equipment Upgrade		Existing	Per Industry	17385250	10	#####	23%	100%	\$0.03	2,201
Electric	Energy Efficiency	Water	Fans	Retrofit	Fan System Optimization	Fan System Optimization		Existing	Per Industry	24836071	10	#####	30%	100%	\$0.00	5,462
Electric	Energy Efficiency	Water	Lighting	Retrofit	HighBay Lighting 1 Shift	HighBay Lighting 1 Shift		Existing	Per Industry	5117736	10	#####	8%	100%	\$0.02	258
Electric	Energy Efficiency	Water	Lighting	Retrofit	HighBay Lighting 2 Shift	HighBay Lighting 2 Shift		Existing	Per Industry	5117736	10	\$724,846.14	3%	100%	\$0.01	87
Electric	Energy Efficiency	Water	Lighting	Retrofit	HighBay Lighting 3 Shift	HighBay Lighting 3 Shift		Existing	Per Industry	5117736	10	\$404,457.52	19%	100%	\$0.00	702
Electric	Energy Efficiency	Water	Pumps	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	160556420	11	#####	22%	100%	-\$0.02	27,215
Electric	Energy Efficiency	Water	Fans	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	24836071	11	#####	22%	100%	-\$0.02	4,562
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Integrated Plant Energy Management	Integrated Plant Energy Management		Existing	Per Industry	24836071	11	#####	22%	100%	-\$0.02	4,562
Electric	Energy Efficiency	Water	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	2830344	10	\$602,863.37	15%	100%	\$0.02	269
Electric	Energy Efficiency	Water	Pumps	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	1605564	10	\$369,279.77	17%	100%	\$0.02	181
Electric	Energy Efficiency	Water	Fans	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	248361	10	\$57,122.96	17%	100%	\$0.02	26
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Motors: Rewind 101-200 HP	Motors: Rewind 101-200 HP		Existing	Per Industry	248361	10	\$57,122.96	17%	100%	\$0.02	31
Electric	Energy Efficiency	Water	Pumps	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	2890016	10	#####	11%	100%	\$0.04	182
Electric	Energy Efficiency	Water	Fans	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	447049	10	\$160,937.74	11%	100%	\$0.04	25
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Motors: Rewind 20-50 HP	Motors: Rewind 20-50 HP		Existing	Per Industry	447049	10	\$160,937.74	11%	100%	\$0.04	33
Electric	Energy Efficiency	Water	Pumps	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	1605564	10	\$497,724.90	0%	100%	\$0.03	2

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ / kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Water	Fans	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	248361	10	\$76,991.82	0%	100%	\$0.03	0
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Motors: Rewind 51-100 HP	Motors: Rewind 51-100 HP		Existing	Per Industry	248361	10	\$76,991.82	0%	100%	\$0.03	0
Electric	Energy Efficiency	Water	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	38533541	10	\$806,507.01	27%	100%	\$0.02	7,124
Electric	Energy Efficiency	Water	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	5960657	10	\$124,756.55	27%	100%	\$0.02	990
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	5960657	10	\$124,756.55	27%	100%	\$0.02	1,194
Electric	Energy Efficiency	Water	Pumps	Retrofit	Pump Energy Management	Pump Energy Management		Existing	Per Industry	24083463	10	\$0.00	31%	100%	\$0.01	4,948
Electric	Energy Efficiency	Water	Pumps	Retrofit	Pump Equipment Upgrade	Pump Equipment Upgrade		Existing	Per Industry	64222568	10	#####	34%	100%	\$0.03	12,790
Electric	Energy Efficiency	Water	Pumps	Retrofit	Pump System Optimization	Pump System Optimization		Existing	Per Industry	160556420	12	#####	15%	100%	-\$0.03	20,687
Electric	Energy Efficiency	Water	Pumps	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	6422257	10	#####	21%	100%	\$0.02	872
Electric	Energy Efficiency	Water	Fans	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	993443	10	\$212,527.57	21%	100%	\$0.02	124
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Synchronous Belts	Synchronous Belts		Existing	Per Industry	993443	10	\$212,527.57	21%	100%	\$0.02	150
Electric	Energy Efficiency	Water	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	4816693	10	\$478,672.70	9%	100%	\$0.00	310
Electric	Energy Efficiency	Water	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	745082	10	\$74,044.68	9%	100%	\$0.00	44
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	745082	10	\$74,044.68	9%	100%	\$0.00	52
Electric	Energy Efficiency	Water	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	150522	10	\$14,958.52	9%	100%	\$0.00	9
Electric	Energy Efficiency	Water	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	1053652	10	\$104,709.65	9%	100%	\$0.00	82
Electric	Energy Efficiency	Water	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1316563	32	#####	37%	100%	\$0.06	271
Electric	Energy Efficiency	Water	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	203656	32	\$154,778.40	37%	100%	\$0.06	38
Electric	Energy Efficiency	Water	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	203656	32	\$154,778.40	37%	100%	\$0.06	50
Electric	Energy Efficiency	Water	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	41143	32	\$31,268.36	37%	100%	\$0.06	9
Electric	Energy Efficiency	Water	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	287998	32	\$218,878.54	37%	100%	\$0.06	89
Electric	Energy Efficiency	Computer Electronic Mfg	Hvac	Retrofit	Clean Room: Change Filter Strategy	Clean Room: Change Filter Strategy		Existing	Per Industry	5725006	1	\$37,137.84	10%	100%	-\$0.01	478
Electric	Energy Efficiency	Computer Electronic Mfg	Hvac	Retrofit	Clean Room: Chiller Optimize	Clean Room: Chiller Optimize		Existing	Per Industry	2121521	10	\$172,763.97	28%	100%	\$0.00	482
Electric	Energy Efficiency	Computer Electronic Mfg	Hvac	Retrofit	Clean Room: Clean Room HVAC	Clean Room: Clean Room HVAC		Existing	Per Industry	1288126	20	\$208,545.88	30%	100%	\$0.00	297
Electric	Energy Efficiency	Computer Electronic Mfg	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	395340	10	\$8,274.46	27%	100%	\$0.02	89
Electric	Energy Efficiency	Computer Electronic Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	96527	10	\$7,770.40	26%	100%	\$0.02	21
Electric	Energy Efficiency	Computer Electronic Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	1666112	10	\$354,881.77	15%	100%	\$0.02	213
Electric	Energy Efficiency	Computer Electronic Mfg	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	13507	32	\$10,265.65	37%	100%	\$0.06	4
Electric	Energy Efficiency	Computer Electronic Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	249291	10	\$5,217.65	27%	100%	\$0.02	56

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Computer Electronic Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	57916	10	\$1,212.18	27%	100%	\$0.02	13
Electric	Energy Efficiency	Computer Electronic Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	493545	10	\$10,329.90	27%	100%	\$0.02	111
Electric	Energy Efficiency	Computer Electronic Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	463776	10	\$9,706.84	27%	100%	\$0.02	104
Electric	Energy Efficiency	Computer Electronic Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	8517	32	\$6,473.25	37%	100%	\$0.06	3
Electric	Energy Efficiency	Computer Electronic Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1979	32	\$1,503.89	37%	100%	\$0.06	1
Electric	Energy Efficiency	Computer Electronic Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	16863	32	\$12,815.72	37%	100%	\$0.06	5
Electric	Energy Efficiency	Computer Electronic Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	15846	32	\$12,042.73	37%	100%	\$0.06	5
Electric	Energy Efficiency	Computer Electronic Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	22652	32	\$17,215.41	37%	100%	\$0.06	7
Electric	Energy Efficiency	Computer Electronic Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	58681	32	\$44,597.80	37%	100%	\$0.06	16
Electric	Energy Efficiency	Computer Electronic Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	24219	32	\$18,406.45	37%	100%	\$0.06	7
Electric	Energy Efficiency	Computer Electronic Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	16361	32	\$12,433.99	37%	100%	\$0.06	5
Electric	Energy Efficiency	Computer Electronic Mfg	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	49417	10	\$4,911.00	9%	100%	\$0.00	4
Electric	Energy Efficiency	Computer Electronic Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	31161	10	\$3,096.75	9%	100%	\$0.00	2
Electric	Energy Efficiency	Computer Electronic Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	7239	10	\$719.45	9%	100%	\$0.00	1
Electric	Energy Efficiency	Computer Electronic Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	61693	10	\$6,130.93	9%	100%	\$0.00	5
Electric	Energy Efficiency	Computer Electronic Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	57972	10	\$5,761.14	9%	100%	\$0.00	5
Electric	Energy Efficiency	Computer Electronic Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	82873	10	\$8,235.71	9%	100%	\$0.00	6
Electric	Energy Efficiency	Computer Electronic Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	214688	10	\$21,335.21	9%	100%	\$0.00	15
Electric	Energy Efficiency	Computer Electronic Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	88606	10	\$8,805.49	9%	100%	\$0.00	7
Electric	Energy Efficiency	Computer Electronic Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	59856	10	\$5,948.32	9%	100%	\$0.00	5
Electric	Energy Efficiency	Electrical Equipment Mfg	Hvac	Retrofit	Clean Room: Change Filter Strategy	Clean Room: Change Filter Strategy		Existing	Per Industry	836752	1	\$5,427.97	10%	100%	-\$0.01	70
Electric	Energy Efficiency	Electrical Equipment Mfg	Hvac	Retrofit	Clean Room: Chiller Optimize	Clean Room: Chiller Optimize		Existing	Per Industry	310076	10	\$25,250.72	28%	100%	\$0.00	70
Electric	Energy Efficiency	Electrical Equipment Mfg	Hvac	Retrofit	Clean Room: Clean Room HVAC	Clean Room: Clean Room HVAC		Existing	Per Industry	188269	20	\$30,480.51	30%	100%	\$0.00	43
Electric	Energy Efficiency	Electrical Equipment Mfg	Pumps	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	165682	10	\$3,467.73	27%	100%	\$0.02	37
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Aircomp	Retrofit	Air Compressor Demand Reduction	Air Compressor Demand Reduction		Existing	Per Industry	294192	10	\$23,682.47	26%	100%	\$0.02	64
Electric	Energy Efficiency	Electrical Equipment Mfg	Lighting	Retrofit	Lighting Controls	Lighting Controls		Existing	Per Industry	469791	10	\$100,065.50	15%	100%	\$0.02	60
Electric	Energy Efficiency	Electrical Equipment Mfg	Pumps	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	5661	32	\$4,302.22	37%	100%	\$0.06	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Fans	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	75831	10	\$1,587.15	27%	100%	\$0.02	17
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Aircomp	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	176515	10	\$3,694.47	27%	100%	\$0.02	40

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [kWh]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /kWh]	2035 Cumulative Technical Achievable Potential [MWh]
Electric	Energy Efficiency	Electrical Equipment Mfg	Motors Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	170143	10	\$3,561.09	27%	100%	\$0.02	38
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Other	Retrofit	Plant Energy Management	Plant Energy Management		Existing	Per Industry	55483	10	\$1,161.25	27%	100%	\$0.02	12
Electric	Energy Efficiency	Electrical Equipment Mfg	Fans	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	2591	32	\$1,969.09	37%	100%	\$0.06	1
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Aircomp	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6031	32	\$4,583.51	37%	100%	\$0.06	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Motors Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	5813	32	\$4,418.04	37%	100%	\$0.06	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	1896	32	\$1,440.70	37%	100%	\$0.06	1
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Heat	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	13325	32	\$10,127.08	37%	100%	\$0.06	4
Electric	Energy Efficiency	Electrical Equipment Mfg	Hvac	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	8577	32	\$6,518.30	37%	100%	\$0.06	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Lighting	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	6829	32	\$5,190.04	37%	100%	\$0.06	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Other	Retrofit	Transformers-New	Transformers-New		Existing	Per Industry	2155	32	\$1,637.48	37%	100%	\$0.06	1
Electric	Energy Efficiency	Electrical Equipment Mfg	Pumps	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	20710	10	\$2,058.14	9%	100%	\$0.00	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Fans	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	9479	10	\$942.00	9%	100%	\$0.00	1
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Aircomp	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	22064	10	\$2,192.71	9%	100%	\$0.00	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Motors Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	21268	10	\$2,113.56	9%	100%	\$0.00	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	6935	10	\$689.22	9%	100%	\$0.00	1
Electric	Energy Efficiency	Electrical Equipment Mfg	Process Heat	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	48750	10	\$4,844.71	9%	100%	\$0.00	4
Electric	Energy Efficiency	Electrical Equipment Mfg	Hvac	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	31378	10	\$3,118.30	9%	100%	\$0.00	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Lighting	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	24984	10	\$2,482.87	9%	100%	\$0.00	2
Electric	Energy Efficiency	Electrical Equipment Mfg	Other	Retrofit	Transformers-Retrofit	Transformers-Retrofit		Existing	Per Industry	7883	10	\$783.36	9%	100%	\$0.00	1
Electric	Energy Efficiency	Street Lighting	Lighting - Street	Retrofit	LED Street Lighting Conversions	LED Street Lighting Conversions		Existing	Per Industry	37081794	12	\$45,498,276	100%	89%	\$0.16	27,480

Table 4 – Residential Gas Measure Detail

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Manufactured	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	Existing	Per Cooking Oven	6	20	\$125.67	100%	100%	\$2.41	1,400
Gas	Energy Efficiency	Manufactured	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	New	Per Cooking Oven	6	20	\$125.67	100%	100%	\$2.41	178
Gas	Energy Efficiency	Manufactured	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced Efficiency Dryer - EF 3.63	Federal Standard 2015 Dryer - EF 3.30	Existing	Per Dryer	2	11	\$46.56	100%	100%	\$3.26	295
Gas	Energy Efficiency	Manufactured	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced Efficiency Dryer - EF 3.63	Federal Standard 2015 Dryer - EF 3.30	New	Per Dryer	2	11	\$46.56	100%	100%	\$3.26	32
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Equipment	Furnace - Advanced Efficiency	Advanced Efficiency Furnace - 95% AFUE	Federal Standard 2007 Furnace - 78% AFUE	Existing	Per Gas Furnace	79	20	\$328.13	90%	89%	\$0.36	14,934
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2007 Furnace - 78% AFUE	Existing	Per Gas Furnace	86	20	\$1,306.16	10%	99%	\$1.61	1,998
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Equipment	Furnace - Advanced Efficiency	Advanced Efficiency Furnace - 95% AFUE	Federal Standard 2007 Furnace - 78% AFUE	New	Per Gas Furnace	39	20	\$253.03	90%	89%	\$0.62	1,311
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2007 Furnace - 78% AFUE	New	Per Gas Furnace	43	20	\$1,007.20	10%	99%	\$2.55	175
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Water Heater GT 55 Gal	19	15	\$996.41	100%	99%	\$6.74	884
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Water Heater GT 55 Gal	94	20	\$4,264.89	15%	100%	\$5.54	990
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Water Heater GT 55 Gal	19	15	\$996.41	100%	99%	\$6.74	59
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Water Heater GT 55 Gal	94	20	\$4,264.89	15%	100%	\$5.54	61
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Water Heater LE 55 Gal	62	15	\$1,299.46	100%	100%	\$2.64	32,394
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Water Heater LE 55 Gal	122	20	\$5,791.72	15%	100%	\$5.67	7,714
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Water Heater LE 55 Gal	62	15	\$1,299.46	100%	100%	\$2.64	2,290
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Water Heater LE 55 Gal	122	20	\$5,791.72	15%	100%	\$5.67	758
Gas	Energy Efficiency	Multifamily	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	Existing	Per Cooking Oven	6	20	\$125.67	100%	100%	\$2.41	17,183
Gas	Energy Efficiency	Multifamily	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	New	Per Cooking Oven	6	20	\$125.67	100%	100%	\$2.41	5,406
Gas	Energy Efficiency	Multifamily	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced Efficiency Dryer - EF 3.63	Federal Standard 2015 Dryer - EF 3.30	Existing	Per Dryer	2	11	\$46.56	100%	100%	\$3.26	3,306
Gas	Energy Efficiency	Multifamily	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced Efficiency Dryer - EF 3.63	Federal Standard 2015 Dryer - EF 3.30	New	Per Dryer	2	11	\$46.56	100%	100%	\$3.26	782
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Equipment	Boiler - Advanced Efficiency	Advanced Efficiency Boiler - 98% AFUE	Federal Standard 2012 Boiler - 82% AFUE	Existing	Per Boiler	103	20	\$1,982.97	100%	100%	\$2.08	8,107
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Equipment	Boiler - Advanced Efficiency	Advanced Efficiency Boiler - 98% AFUE	Federal Standard 2012 Boiler - 82% AFUE	New	Per Boiler	65	20	\$1,528.89	100%	100%	\$2.56	4,623
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Equipment	Furnace - Advanced Efficiency	Advanced Efficiency Furnace - 95% AFUE	Federal Standard 2007 Furnace - 78%	Existing	Per Gas Furnace	65	20	\$283.27	90%	89%	\$0.38	145,973

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
							AFUE									
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2007 Furnace - 78% AFUE	Existing	Per Gas Furnace	71	20	\$1,127.58	10%	99%	\$1.68	19,525
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Equipment	Furnace - Advanced Efficiency	Advanced Efficiency Furnace - 95% AFUE	Federal Standard 2007 Furnace - 78% AFUE	New	Per Gas Furnace	41	20	\$227.90	90%	89%	\$0.52	70,789
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2007 Furnace - 78% AFUE	New	Per Gas Furnace	45	20	\$907.17	10%	99%	\$2.20	9,469
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Water Heater GT 55 Gal	20	15	\$996.41	100%	99%	\$6.58	12,731
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Water Heater GT 55 Gal	76	20	\$4,264.89	15%	100%	\$6.86	11,259
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Water Heater GT 55 Gal	20	15	\$996.41	100%	99%	\$6.58	2,067
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Water Heater GT 55 Gal	76	20	\$4,264.89	15%	100%	\$6.86	1,701
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Water Heater LE 55 Gal	64	15	\$1,299.46	100%	100%	\$2.57	748,903
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Water Heater LE 55 Gal	99	20	\$5,791.72	15%	100%	\$7.02	142,985
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Water Heater LE 55 Gal	64	15	\$1,299.46	100%	100%	\$2.57	129,372
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Water Heater LE 55 Gal	99	20	\$5,791.72	15%	100%	\$7.02	33,760
Gas	Energy Efficiency	Single Family	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	Existing	Per Cooking Oven	6	20	\$125.67	100%	100%	\$2.41	199,098
Gas	Energy Efficiency	Single Family	Cooking Oven	Equipment	Cooking Oven - High Efficiency	High Efficiency Cooking Oven	Federal Standard 2012 Cooking Oven	New	Per Cooking Oven	6	20	\$125.67	100%	100%	\$2.41	143,315
Gas	Energy Efficiency	Single Family	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced Efficiency Dryer - EF 3.63	Federal Standard 2015 Dryer - EF 3.30	Existing	Per Dryer	2	11	\$46.56	100%	100%	\$3.26	151,268
Gas	Energy Efficiency	Single Family	Dryer	Equipment	Dryer - Advanced Efficiency	Advanced Efficiency Dryer - EF 3.63	Federal Standard 2015 Dryer - EF 3.30	New	Per Dryer	2	11	\$46.56	100%	100%	\$3.26	63,106
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Equipment	Boiler - Advanced Efficiency	Advanced Efficiency Boiler - 98% AFUE	Federal Standard 2012 Boiler - 82% AFUE	Existing	Per Boiler	145	20	\$1,568.90	100%	100%	\$1.12	287,053
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Equipment	Boiler - Advanced Efficiency	Advanced Efficiency Boiler - 98% AFUE	Federal Standard 2012 Boiler - 82% AFUE	New	Per Boiler	77	20	\$1,220.28	100%	100%	\$1.69	110,979
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Equipment	Furnace - Advanced Efficiency	Advanced Efficiency Furnace - 95% AFUE	Federal Standard 2007 Furnace - 78% AFUE	Existing	Per Gas Furnace	129	20	\$461.34	90%	89%	\$0.29	8,398,447
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2007 Furnace - 78% AFUE	Existing	Per Gas Furnace	141	20	\$1,836.39	10%	99%	\$1.37	1,123,371
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Equipment	Furnace - Advanced Efficiency	Advanced Efficiency Furnace - 95% AFUE	Federal Standard 2007 Furnace - 78% AFUE	New	Per Gas Furnace	64	20	\$357.74	90%	89%	\$0.52	2,829,528
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2007 Furnace - 78% AFUE	New	Per Gas Furnace	70	20	\$1,424.01	10%	99%	\$2.21	378,476
Gas	Energy Efficiency	Single Family	Pool Heat	Equipment	Pool Heater - Efficient	Efficient Pool Heater - 88% Efficient	Federal Standard 2013 Pool Heater - 82% Efficient	Existing	Per Pool Heater	15	8	\$0.00	100%	100%	-\$0.08	92,455

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Single Family	Pool Heat	Equipment	Pool Heater - Efficient	Efficient Pool Heater - 88% Efficient	Federal Standard 2013 Pool Heater - 82% Efficient	New	Per Pool Heater	15	8	\$0.00	100%	100%	-\$0.08	32,271
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Water Heater GT 55 Gal	23	15	\$996.41	100%	99%	\$5.66	771,799
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Water Heater GT 55 Gal	111	20	\$4,264.89	15%	100%	\$4.64	864,436
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Water Heater GT 55 Gal	23	15	\$996.41	100%	99%	\$5.66	272,346
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Water Heater GT 55 Gal	111	20	\$4,264.89	15%	100%	\$4.64	283,676
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Water Heater LE 55 Gal	74	15	\$1,299.46	100%	100%	\$2.21	16,815,772
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Water Heater LE 55 Gal	145	20	\$5,791.72	15%	100%	\$4.75	3,962,677
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Water Heater LE 55 Gal	74	15	\$1,299.46	100%	100%	\$2.21	6,365,646
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Water Heater LE 55 Gal	145	20	\$5,791.72	15%	100%	\$4.75	2,108,102
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	Existing	Per Home	15	20	\$1,486.19	25%	95%	\$11.19	3,715
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	Existing	Per Home	15	20	\$1,486.19	50%	95%	\$10.96	64,556
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Air-to-Air Heat Exchangers	Air-to-Air Heat Exchangers	No Air to Air Heat Exchangers	Existing	Per Home	4	20	\$1,486.19	50%	95%	\$40.38	700,813
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	161	45	\$1,944.00	75%	1%	\$1.09	2,235
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	216	45	\$2,082.17	85%	0%	\$0.84	9,399
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-0 (Zero Insulation - Single Family and Manufactured Homes Only)	Existing	Per Home	185	45	\$2,082.17	85%	0%	\$0.98	328,683
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-8.0 (Existing Insulation - Manufactured Homes Only)	Existing	Per Home	74	45	\$1,944.00	75%	13%	\$2.51	8,583
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-11.9 (Existing Insulation - Single Family Only)	Existing	Per Home	63	45	\$2,082.17	85%	13%	\$3.20	64,819
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Ceiling Insulation	R-49 (WA Code - Single Family and Manufactured Homes Only)	R-11.9 (Existing Insulation - Single Family Only)	Existing	Per Home	55	45	\$2,082.17	85%	13%	\$3.65	2,282,522
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	6	45	\$1,188.00	40%	96%	\$18.44	2,556
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	7	45	\$1,188.00	60%	95%	\$16.66	356

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	7	45	\$1,272.43	75%	96%	\$18.32	43,930
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	7	45	\$1,094.89	90%	95%	\$16.78	17,218
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	Existing	Per Home	6	45	\$1,272.43	75%	96%	\$20.80	1,574,284
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Ceiling Insulation	R-60 (Above WA Code - Single Family and Manufactured Homes Only)	R-49 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	5	45	\$1,094.89	90%	95%	\$20.09	522,331
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-0 (Zero Insulation - Multi Family Only)	Existing	Per Home	40	25	\$433.19	50%	7%	\$1.10	512
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-0 (Zero Insulation - Multi Family Only)	Existing	Per Home	21	25	\$433.19	50%	7%	\$2.20	9,122
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-9.6 (Existing Insulation - Multi Family Only)	Existing	Per Home	8	25	\$433.19	50%	7%	\$5.65	100
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Ceiling Insulation	R-38 (WA Code - Multi Family Only)	R-9.6 (Existing Insulation - Multi Family Only)	Existing	Per Home	4	25	\$433.19	50%	7%	\$10.95	1,802
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	Existing	Per Home	1	25	\$54.14	15%	95%	\$4.71	63
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	New	Per Home	3	25	\$54.14	25%	80%	\$1.74	115
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	Existing	Per Home	1	25	\$54.14	15%	95%	\$9.12	1,147
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Ceiling Insulation	R-49 (Above WA Code - Multi Family Only)	R-38 (WA Code - Multi Family Only)	New	Per Home	2	25	\$54.14	25%	80%	\$3.26	1,782
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	83	45	\$1,566.00	25%	25%	\$1.81	6,391
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	112	25	\$392.57	25%	4%	\$0.28	469
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	63	25	\$392.57	25%	4%	\$0.61	9,064
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	150	45	\$1,677.29	25%	29%	\$1.03	110,987
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Floor Insulation	R-30 (WA Code)	R-0 (Zero Insulation)	Existing	Per Home	103	45	\$1,677.29	25%	29%	\$1.56	3,111,419
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Floor Insulation	R-30 (WA Code)	R-6.7 (Existing Insulation: Manufactured Homes)	Existing	Per Home	43	45	\$1,566.00	25%	50%	\$3.54	6,019
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Floor Insulation	R-30 (WA Code)	R-5.2 (Existing Insulation: Multifamily)	Existing	Per Home	60	25	\$392.57	25%	17%	\$0.63	1,015
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Floor Insulation	R-30 (WA Code)	R-5.2 (Existing Insulation: Multifamily)	Existing	Per Home	34	25	\$392.57	25%	17%	\$1.22	19,623
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Floor Insulation	R-30 (WA Code)	R-8.5 (Existing Insulation: Single Family)	Existing	Per Home	63	45	\$1,677.29	25%	41%	\$2.58	61,617
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Floor Insulation	R-30 (WA Code)	R-8.5 (Existing Insulation: Single Family)	Existing	Per Home	43	45	\$1,677.29	25%	41%	\$3.84	1,664,688
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	6	45	\$256.50	25%	85%	\$4.04	1,451



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	6	45	\$256.50	75%	85%	\$3.93	416
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	6	25	\$64.30	25%	69%	\$1.12	383
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	7	25	\$64.30	75%	85%	\$0.95	760
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	3	25	\$64.30	25%	69%	\$2.10	7,400
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	4	25	\$64.30	75%	85%	\$1.81	12,089
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	10	45	\$274.74	25%	84%	\$2.77	19,209
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	9	45	\$236.40	75%	85%	\$2.58	21,797
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	Existing	Per Home	7	45	\$274.74	25%	84%	\$4.14	518,099
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Floor Insulation	R-38 (Above WA Code)	R-30 (WA Code)	New	Per Home	7	45	\$236.40	75%	85%	\$3.53	585,790
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	5	45	\$1,782.00	75%	75%	\$36.11	232
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	10	45	\$1,642.32	75%	75%	\$16.31	17,308
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Slab Insulation	R-10 with R-5 Thermal Break (Above WA Code)	R-10 (WA Code)	New	Per Home	8	45	\$1,642.32	75%	75%	\$19.51	525,076
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	139	45	\$3,083.67	60%	9%	\$2.12	9,034
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	102	25	\$1,028.44	60%	2%	\$1.02	408
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	57	25	\$1,028.44	60%	2%	\$1.92	7,894
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	265	45	\$4,083.70	60%	23%	\$1.43	375,461
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Wall Insulation 2x4	R-13 (Below WA Code - Maximum Insulation Feasible)	R-0 (Zero Insulation)	Existing	Per Home	219	45	\$4,083.70	60%	23%	\$1.75	12,643,943
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	19	45	\$1,417.18	75%	95%	\$7.53	1,329
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	34	45	\$1,876.77	75%	95%	\$5.40	89,214
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Wall Insulation 2x6	R-21 + R-5 sheathing (Above WA Code - Single Family and Manufactured Homes Only)	R-21 (WA Code - Single Family and Manufactured Homes Only)	New	Per Home	27	45	\$1,876.77	75%	95%	\$6.82	2,562,480
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	Existing	Per Clothes Washer	4	14	\$208.84	100%	32%	\$4.83	8
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	New	Per Clothes Washer	4	14	\$208.84	100%	100%	\$4.83	1

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	Existing	Per Clothes Washer	4	14	\$208.84	100%	32%	\$4.83	98
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	New	Per Clothes Washer	4	14	\$208.84	100%	100%	\$4.83	9
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	Existing	Per Clothes Washer	10	14	\$586.86	15%	95%	\$4.83	145
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	New	Per Clothes Washer	10	14	\$586.86	15%	100%	\$4.83	15
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	Existing	Per Clothes Washer	10	14	\$586.86	15%	95%	\$4.83	2,720
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	New	Per Clothes Washer	10	14	\$586.86	15%	100%	\$4.83	225
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	Existing	Per Clothes Washer	6	14	\$356.13	100%	100%	\$4.83	33,647
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	New	Per Clothes Washer	6	14	\$356.13	100%	100%	\$4.83	6,987
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	Existing	Per Clothes Washer	6	14	\$356.13	100%	100%	\$4.83	232,949
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2016 Clothes Washer - MEF 2.64 and WF 3.9 (Gas DHW & Dryer)	New	Per Clothes Washer	6	14	\$356.13	100%	100%	\$4.83	38,243
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	Existing	Per Clothes Washer	3	14	\$187.86	100%	100%	\$4.88	150
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	New	Per Clothes Washer	3	14	\$187.86	100%	100%	\$4.88	10
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	Existing	Per Clothes Washer	3	14	\$187.86	100%	100%	\$4.88	1,826
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	New	Per Clothes Washer	3	14	\$187.86	100%	100%	\$4.88	90

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	Existing	Per Clothes Washer	10	14	\$527.91	15%	100%	\$4.88	886
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	New	Per Clothes Washer	10	14	\$527.91	15%	100%	\$4.88	145
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	Existing	Per Clothes Washer	10	14	\$527.91	15%	100%	\$4.88	17,356
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	New	Per Clothes Washer	10	14	\$527.91	15%	100%	\$4.88	2,161
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	Existing	Per Clothes Washer	6	14	\$320.35	100%	100%	\$4.88	192,035
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	New	Per Clothes Washer	6	14	\$320.35	100%	100%	\$4.88	66,720
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	Existing	Per Clothes Washer	6	14	\$320.35	100%	100%	\$4.88	1,386,413
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Clothes Washer	ENERGY STAR - Most Efficient (3.2 MEF or higher) - Gas DHW & Dryer	RTF Market Standard 2018 Clothes Washer - MEF 2.68 and WF 3.7 (Gas DHW & Dryer)	New	Per Clothes Washer	6	14	\$320.35	100%	100%	\$4.88	365,882
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	3	15	\$25.80	95%	75%	\$1.15	86
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	3	15	\$25.80	95%	75%	\$1.15	1,046
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	3	15	\$25.80	95%	17%	\$1.15	273
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	3	15	\$25.80	95%	17%	\$1.15	5,356
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	3	15	\$25.80	95%	72%	\$1.15	60,610
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Hot Water Pipe Insulation	R-4 Wrap	No insulation	Existing	Per DWH Pipe Insulation	3	15	\$25.80	95%	72%	\$1.15	439,642
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	20
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	2
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	241
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	15
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	284

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	55
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	5,590
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	838
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	14,551
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	6,200
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	Existing	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	105,536
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Water Heater Tank Blanket/Insulation	Install Insulation (R-5)	No Tank Insulation	New	Per Tank Wrap per Gallon DWH Storage	3	10	\$63.10	95%	20%	\$3.93	35,061
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	0	15	\$4.49	100%	50%	-\$0.02	8
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	0	15	\$4.49	100%	50%	-\$0.02	1
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	0	15	\$4.49	100%	50%	-\$0.02	96
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	0	15	\$4.49	100%	50%	-\$0.02	6
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	1	15	\$7.25	100%	50%	-\$0.04	179
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	1	15	\$7.25	100%	50%	-\$0.04	36
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	1	15	\$7.25	100%	50%	-\$0.04	3,501
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	1	15	\$7.25	100%	50%	-\$0.04	541
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	0	15	\$6.34	100%	50%	-\$0.03	8,365
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	0	15	\$6.34	100%	50%	-\$0.03	3,611
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	Existing	Per Dishwasher	0	15	\$6.34	100%	50%	-\$0.03	60,394
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Dishwasher	RTF ENERGY STAR Dishwasher - 271 kWh/yr and 3.56 gal/cycle	RTF Market Standard 2014 Dishwasher - 277 kWh/yr and 3.82 gal/cycle	New	Per Dishwasher	0	15	\$6.34	100%	50%	-\$0.03	19,800

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	3	20	\$29.11	15%	95%	\$1.07	495
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	3	20	\$29.11	15%	95%	\$1.15	42
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	10	20	\$71.91	15%	100%	\$0.74	14,812
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	9	20	\$71.91	15%	95%	\$0.76	5,205
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	Existing	Per Door	8	20	\$71.91	15%	100%	\$0.92	508,622
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Single Family and Manufactured Homes Only)	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	New	Per Door	8	20	\$71.91	15%	95%	\$1.00	149,310
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	5	20	\$49.32	15%	75%	\$0.91	767
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	19	20	\$121.82	15%	77%	\$0.63	22,639
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Doors	R-5 (Composite Doors with foam core) (WA Code Single Family and Manufactured Homes Only)	R-2.5 (Standard non-thermal wood door) (Below WA Code - Single Family and Manufactured Homes Only)	Existing	Per Door	16	20	\$121.82	15%	77%	\$0.79	769,076
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	22	20	\$78.43	4%	18%	\$0.28	60
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	21	20	\$78.43	4%	80%	\$0.31	111
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	13	20	\$78.43	4%	18%	\$0.61	1,155
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Doors	R-10 (Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	12	20	\$78.43	4%	80%	\$0.67	1,770

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	15	20	\$49.32	21%	18%	\$0.26	186
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	14	20	\$49.32	21%	60%	\$0.28	261
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	Existing	Per Door	8	20	\$49.32	21%	18%	\$0.57	3,600
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Doors	R-5 (Composite Doors with foam core) (Above WA Code - Multi-Family Only)	R-2.5 (Standard non-thermal wood door) (WA Code - Multi-Family Only)	New	Per Door	8	20	\$49.32	21%	60%	\$0.62	4,154
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	2	5	\$30.22	13%	50%	\$3.21	158
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	6	5	\$30.22	13%	18%	\$1.24	48
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	3	5	\$30.22	13%	18%	\$2.37	898
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	27	5	\$74.65	13%	77%	\$0.60	25,654
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Doors - Weatherization	Weatherstripping And Adding Door Sweeps	Existing Non-Efficient door	Existing	Per Door Weatherized	19	5	\$74.65	13%	77%	\$0.93	718,745
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	14	40	\$463.82	29%	89%	\$3.31	162
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	14	40	\$463.82	59%	90%	\$3.31	18
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	14	40	\$463.82	29%	89%	\$3.31	1,971
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	14	40	\$463.82	59%	90%	\$3.31	168
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	17	40	\$463.82	59%	90%	\$2.77	748
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	17	40	\$463.82	59%	90%	\$2.77	11,334
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	17	40	\$463.82	29%	90%	\$2.70	145,726
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	17	40	\$463.82	59%	90%	\$2.70	86,454
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	Existing	Per Home	17	40	\$463.82	29%	90%	\$2.70	1,057,003
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Drain Water Heat Recovery	Drain Water Heat Recovery	No Drain Water Heat Recovery	New	Per Home	17	40	\$463.82	59%	90%	\$2.70	483,205
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	31	30	\$278.00	75%	10%	\$0.84	285
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Duct Location	Conditioned Space Design - Duct Loss Is Not A Concern	Ducts in Unconditioned Space (Duct loss)	New	Per Home	33	30	\$278.00	75%	10%	\$0.76	428,951
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insualtion	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	50	20	\$1,029.00	50%	60%	\$2.25	17,142
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Combined Duct Sealing and Insulation	Duct Sealing and R-8 Duct Insualtion	No Duct Sealing and Baseline Duct Insulation	Existing	Per Home	54	20	\$1,454.65	50%	47%	\$2.93	4,962,044

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	standard ducts with 13 SEER HVAC	Existing	Per Home	52	30	\$128.42	5%	95%	\$0.14	3,122
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	standard ducts with 13 SEER HVAC	New	Per Home	24	30	\$128.42	15%	95%	\$0.45	428
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	standard ducts with 13 SEER HVAC	Existing	Per Home	8	30	\$128.42	5%	95%	\$1.46	159,633
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands (5 per unit)	standard ducts with 13 SEER HVAC	New	Per Home	18	30	\$128.42	15%	95%	\$0.63	435,844
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	6	9	\$0.00	100%	95%	-\$2.95	275
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	3	9	\$0.00	100%	95%	-\$3.96	10
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	6	9	\$0.00	100%	95%	-\$3.18	3,092
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	3	9	\$0.00	100%	95%	-\$3.30	107
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	6	9	\$0.00	100%	95%	-\$2.95	4,057
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	4	9	\$0.00	100%	95%	-\$3.97	464
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	6	9	\$0.00	100%	95%	-\$3.18	73,397
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	4	9	\$0.00	100%	95%	-\$3.30	8,349
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	9	9	\$0.00	100%	95%	-\$2.95	304,103
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	3	9	\$0.00	100%	95%	-\$3.97	40,971
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	Existing	Per Faucet Aerator - Bathroom	8	9	\$0.00	100%	95%	-\$3.18	2,028,890
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	0.5 GPM - Bathroom	2.2 GPM - Bathroom	New	Per Faucet Aerator - Bathroom	3	9	\$0.00	100%	95%	-\$3.30	271,434
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	3	9	\$12.35	100%	15%	-\$2.19	20
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	3	9	\$12.35	100%	15%	-\$2.36	230
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	3	9	\$9.49	100%	15%	-\$2.39	301
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	3	9	\$9.49	100%	15%	-\$2.58	5,454
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	4	9	\$17.11	100%	15%	-\$2.23	22,596

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Bathroom	2.2 GPM - Bathroom	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Bathroom	4	9	\$17.11	100%	15%	-\$2.41	150,753
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	5	9	\$0.00	100%	65%	-\$4.38	145
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	3	9	\$0.00	100%	65%	-\$5.91	9
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	4	9	\$0.00	100%	65%	-\$4.73	1,633
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	4	9	\$0.00	100%	65%	-\$4.90	97
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	5	9	\$0.00	100%	65%	-\$4.38	2,143
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	4	9	\$0.00	100%	65%	-\$5.91	321
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	4	9	\$0.00	100%	65%	-\$4.73	38,772
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	4	9	\$0.00	100%	65%	-\$4.90	5,781
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	7	9	\$0.00	100%	65%	-\$4.38	160,643
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	5	9	\$0.00	100%	65%	-\$5.91	51,140
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	Existing	Per Faucet Aerator - Kitchen	6	9	\$0.00	100%	65%	-\$4.73	1,071,763
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	1.5 GPM - Kitchen	2.2 GPM - Kitchen	New	Per Faucet Aerator - Kitchen	6	9	\$0.00	100%	65%	-\$4.90	338,800
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	5	9	\$7.24	100%	15%	-\$4.14	38
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	5	9	\$7.24	100%	15%	-\$4.47	431
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	6	9	\$7.24	100%	15%	-\$4.15	565
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	5	9	\$7.24	100%	15%	-\$4.49	10,226
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	8	9	\$7.24	100%	15%	-\$4.22	42,367
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Faucet Aerators - Kitchen	2.2 GPM - Kitchen	Existing Faucet Aerator (3.0 GPM)	Existing	Per Faucet Aerator - Kitchen	7	9	\$7.24	100%	15%	-\$4.56	282,663
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	7	11	\$1,782.00	64%	29%	\$41.48	1,267
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	68	11	\$1,744.20	64%	49%	\$3.88	7,325
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	37	11	\$1,744.20	64%	49%	\$7.22	139,106



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	32	11	\$3,850.20	64%	50%	\$18.32	90,189
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Infiltration Control (Caulk, Weather Strip, etc.) Blower-Door test	Install Caulking And Weatherstripping	Existing Infiltration Conditions	Existing	Per Home	22	11	\$3,850.20	64%	50%	\$26.62	2,528,695
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	64	20	\$1,780.00	15%	95%	\$3.11	390
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	48	20	\$1,780.00	15%	95%	\$4.19	23
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	63	20	\$1,780.00	15%	95%	\$3.12	4,742
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	62	20	\$1,780.00	15%	95%	\$3.22	284
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	55	20	\$1,780.00	15%	95%	\$3.59	2,767
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	34	20	\$1,780.00	15%	95%	\$5.83	727
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	65	20	\$1,780.00	15%	95%	\$3.03	5,750
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	49	20	\$1,780.00	15%	95%	\$4.09	825
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	65	20	\$1,780.00	15%	95%	\$3.05	112,598
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	63	20	\$1,780.00	15%	95%	\$3.14	16,393
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	77	20	\$1,780.00	15%	95%	\$2.51	103,009
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	40	20	\$1,780.00	15%	95%	\$4.91	19,868
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	76	20	\$1,780.00	15%	95%	\$2.60	341,348
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	57	20	\$1,780.00	15%	95%	\$3.51	108,673
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	Existing	Per Integrated System	75	20	\$1,780.00	15%	95%	\$2.61	2,466,520
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating and Water Heating	90% CAE or Above	Standard Boiler and Water Heater	New	Per Integrated System	73	20	\$1,780.00	15%	95%	\$2.69	795,672
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	1	45	\$795.60	75%	75%	\$125.68	29
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	1	25	\$795.60	40%	75%	\$76.12	52
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	1	25	\$795.60	40%	75%	\$135.37	843
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Smart Siting	Siting house to minimize heating/cooling costs	No smart siting	New	Per Home	1	45	\$795.60	75%	75%	\$57.22	2,359
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Smart Siting	Siting house to minimize	No smart siting	New	Per Home	1	45	\$795.60	75%	75%	\$76.75	63,337

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
						heating/cooling costs										
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	58	45	\$753.70	25%	95%	\$1.20	1,652
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	22	25	\$737.72	25%	95%	\$3.67	792
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	12	25	\$737.72	25%	95%	\$6.68	12,539
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	61	45	\$1,628.45	25%	95%	\$2.57	54,974
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Construction - SIP	Specialty Framing	Standard Wood Framing	New	Per Home	49	45	\$1,628.45	25%	95%	\$3.26	1,586,348
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	23	45	\$495.00	85%	95%	\$2.03	2,114
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	22	25	\$484.50	85%	95%	\$2.36	3,089
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	13	25	\$484.50	85%	95%	\$4.23	50,112
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	100	45	\$1,069.50	85%	95%	\$0.96	380,141
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Thermal Shell - Infiltration @0.2 ACH w/HRV	0.2 ACH w/HRV	Standard New Construction Home 0.35 ACH	New	Per Home	75	45	\$1,069.50	85%	95%	\$1.34	10,244,065
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	Existing	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	403
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	New	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	253
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	Existing	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	5,416
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	New	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	13,838
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	Existing	Per Showerhead	14	10	\$0.00	95%	84%	-\$1.57	413,322
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	New	Per Showerhead	14	10	\$0.00	95%	85%	-\$1.57	835,488
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Thermostat - Multi-Zone	Individual Room Temperature Control for Major Occupied Rooms	Programmable Thermostat - Central Control Only	Existing	Per Home	28	10	\$882.71	10%	95%	\$4.93	2,886
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Thermostat - Multi-Zone	Individual Room Temperature Control for Major Occupied Rooms	Programmable Thermostat - Central Control Only	New	Per Home	14	10	\$882.71	50%	95%	\$10.08	568
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Thermostat - Multi-Zone	Individual Room Temperature Control for Major Occupied Rooms	Programmable Thermostat - Central Control Only	Existing	Per Home	58	10	\$882.71	10%	95%	\$2.31	51,221
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Thermostat - Multi-Zone	Individual Room Temperature Control for Major Occupied Rooms	Programmable Thermostat - Central Control Only	New	Per Home	31	10	\$882.71	75%	95%	\$4.53	74,093
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Thermostat - Multi-Zone	Individual Room Temperature Control for Major Occupied Rooms	Programmable Thermostat - Central Control Only	Existing	Per Home	46	10	\$882.71	10%	95%	\$2.96	1,624,277
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Thermostat - Multi-Zone	Individual Room Temperature Control for Major Occupied	Programmable Thermostat - Central Control Only	New	Per Home	23	10	\$882.71	75%	95%	\$6.12	2,003,116

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
						Rooms										
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	10	10	\$167.45	25%	52%	\$2.66	826
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	5	10	\$167.45	100%	95%	\$5.48	180
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	20	10	\$167.45	25%	79%	\$1.22	22,832
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	11	10	\$167.45	100%	95%	\$2.44	7,751
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	Existing	Per Home	16	10	\$167.45	25%	86%	\$1.58	796,918
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Wi-Fi Thermostat	WiFi Thermostat	Programmable Thermostat	New	Per Home	8	10	\$167.45	100%	95%	\$3.33	207,722
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	27	30	\$2,208.72	50%	85%	\$8.67	12,346
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	20	30	\$2,208.72	70%	75%	\$11.87	962
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	82	30	\$2,262.36	50%	85%	\$2.87	13,044
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	60	30	\$2,573.22	70%	75%	\$4.52	5,184
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	46	30	\$2,262.36	50%	85%	\$5.20	252,019
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	34	30	\$2,573.22	70%	75%	\$8.18	82,449
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	56	30	\$3,556.83	50%	75%	\$6.75	190,582
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	42	30	\$3,384.67	70%	75%	\$8.64	70,980
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	Existing	Per Home	47	30	\$3,556.83	50%	75%	\$8.12	6,417,582
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Windows	U-value = 0.22 (Above WA Code)	U-value = 0.30 (WA Code)	New	Per Home	33	30	\$3,384.67	70%	75%	\$10.93	2,052,255
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	132	30	\$2,845.55	50%	15%	\$2.21	11,702
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	306	30	\$2,914.63	50%	9%	\$0.91	5,426
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	173	30	\$2,914.63	50%	9%	\$1.73	104,806
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	271	30	\$4,582.32	50%	15%	\$1.72	195,128
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Windows	U-value = 0.30 (WA Code)	Double Pane (Existing Window)	Existing	Per Home	224	30	\$4,582.32	50%	15%	\$2.11	6,571,221
Gas	Energy Efficiency	Manufactured	Heat Central Furnace	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	166	30	\$8,458.85	50%	5%	\$5.40	4,509
Gas	Energy Efficiency	Multifamily	Heat Central Boiler	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	361	30	\$8,664.22	50%	2%	\$2.47	1,098
Gas	Energy Efficiency	Multifamily	Heat Central Furnace	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	203	30	\$8,664.22	50%	2%	\$4.51	21,223
Gas	Energy Efficiency	Single Family	Heat Central Boiler	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	338	30	\$13,621.68	50%	5%	\$4.24	74,915
Gas	Energy Efficiency	Single Family	Heat Central Furnace	Retrofit	Windows	U-value = 0.30 (WA Code)	Single Pane (Existing Window)	Existing	Per Home	279	30	\$13,621.68	50%	5%	\$5.17	2,498,609
Gas	Energy Efficiency	Manufactured	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	Existing	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	4,893
Gas	Energy Efficiency	Multifamily	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	Existing	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	106,049

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Single Family	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	Existing	Per Showerhead	14	10	\$0.00	95%	84%	-\$1.57	2,984,014
Gas	Energy Efficiency	Manufactured	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.24 GPM (RBSA Baseline: Manufactured)	New	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	27
Gas	Energy Efficiency	Multifamily	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Multifamily)	New	Per Showerhead	10	10	\$0.00	95%	85%	-\$1.57	929
Gas	Energy Efficiency	Single Family	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.14 GPM (RBSA Baseline: Single Family)	New	Per Showerhead	14	10	\$0.00	95%	85%	-\$1.57	152,351

Table 5 – Commercial Gas Measure Detail

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$2.11	17,354
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$2.24	34,102
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.04	50%	97%	\$2.14	7,383
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.08	50%	99%	\$2.27	14,506
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$2.66	70,747
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$2.90	107,622
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$3.11	141,253
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.13	10%	97%	\$2.54	28,293
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.19	10%	99%	\$2.78	43,039
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.24	10%	100%	\$2.99	56,489
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.04	100%	97%	\$2.27	17,427
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$0.38	3%	100%	\$3.93	3,341
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.04	100%	97%	\$2.15	6,965
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$0.38	3%	100%	\$3.72	1,232
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.02	32%	93%	\$1.41	39,630
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.09	32%	97%	\$2.12	158,858
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.21	32%	97%	\$3.98	184,235
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$0.92	3%	97%	\$6.32	57,162
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.02	32%	93%	\$1.33	15,953
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.09	32%	97%	\$2.01	63,913
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.21	32%	97%	\$3.77	74,148

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$0.92	3%	97%	\$5.99	21,226
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$0.56	401
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$0.60	789
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.01	50%	97%	\$0.33	58
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.03	50%	99%	\$0.59	113
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$0.72	23,974
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$0.80	36,471
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$0.86	47,867
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.05	10%	97%	\$0.69	3,224
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.08	10%	99%	\$0.85	4,904
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.10	10%	100%	\$0.91	6,436
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.08	100%	97%	\$0.96	10,903
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$0.68	3%	100%	\$1.51	2,090
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.08	100%	97%	\$0.90	4,518
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$0.68	3%	100%	\$1.42	799
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.05	32%	93%	\$0.74	24,692
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.22	32%	97%	\$1.11	98,979
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.49	32%	97%	\$2.01	114,790
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$2.17	3%	97%	\$3.26	35,615
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.05	32%	93%	\$0.70	10,359
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.22	32%	97%	\$1.05	41,502
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.49	32%	97%	\$1.90	48,149

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$2.17	3%	97%	\$3.08	13,783
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$0.37	65,363
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$0.40	128,439
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.07	50%	97%	\$0.37	45,365
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.13	50%	99%	\$0.37	89,139
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$0.49	50,414
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$0.54	76,692
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$0.59	100,658
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.24	10%	97%	\$0.49	32,505
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.34	10%	99%	\$0.53	49,447
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.43	10%	100%	\$0.58	64,899
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.21	100%	97%	\$0.74	88,474
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$1.81	3%	100%	\$1.19	16,961
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.21	100%	97%	\$0.70	35,632
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$1.81	3%	100%	\$1.13	6,304
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.13	32%	93%	\$0.56	201,225
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.59	32%	97%	\$0.88	806,621
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$1.33	32%	97%	\$1.63	935,474
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$5.93	3%	97%	\$2.67	290,244
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.13	32%	93%	\$0.53	81,633
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.59	32%	97%	\$0.83	327,052
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$1.33	32%	97%	\$1.54	379,428

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$5.93	3%	97%	\$2.52	108,617
Gas	Energy Efficiency	Hotel Motel	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	Existing	Per Sqft	0	12	\$0.52	50%	100%	\$7.15	53,917
Gas	Energy Efficiency	Hotel Motel	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	New	Per Sqft	0	12	\$0.52	50%	100%	\$7.15	18,521
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$0.82	12,192
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$0.87	23,958
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.05	50%	97%	\$0.80	5,110
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.10	50%	99%	\$0.85	10,040
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$1.04	2,414
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$1.15	3,672
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$1.23	4,820
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.18	10%	97%	\$1.08	1,183
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.26	10%	99%	\$1.17	1,799
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.32	10%	100%	\$1.23	2,362
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.20	100%	97%	\$0.95	23,745
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$1.68	3%	100%	\$1.48	4,552
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.20	100%	97%	\$0.90	9,448
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$1.68	3%	100%	\$1.40	1,671
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.12	32%	93%	\$0.71	53,183
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.54	32%	97%	\$1.08	213,187
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$1.22	32%	97%	\$2.00	247,242
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$5.46	3%	97%	\$3.27	76,710
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.12	32%	93%	\$0.67	21,681



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.54	32%	97%	\$1.02	86,861
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$1.22	32%	97%	\$1.89	100,772
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$5.46	3%	97%	\$3.09	28,847
Gas	Energy Efficiency	Office	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$0.61	222,133
Gas	Energy Efficiency	Office	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$0.65	436,489
Gas	Energy Efficiency	Office	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.03	50%	97%	\$0.50	59,915
Gas	Energy Efficiency	Office	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.07	50%	99%	\$0.65	117,730
Gas	Energy Efficiency	Office	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$0.78	159,853
Gas	Energy Efficiency	Office	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$0.86	243,173
Gas	Energy Efficiency	Office	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$0.93	319,163
Gas	Energy Efficiency	Office	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.11	10%	97%	\$0.71	50,610
Gas	Energy Efficiency	Office	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.17	10%	99%	\$0.83	76,989
Gas	Energy Efficiency	Office	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.21	10%	100%	\$0.88	101,048
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.04	100%	97%	\$1.75	36,064
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$0.34	3%	100%	\$2.72	6,914
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.04	100%	97%	\$1.66	14,517
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$0.34	3%	100%	\$2.58	2,568
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.03	32%	93%	\$1.67	82,059
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.12	32%	97%	\$2.21	328,939
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.26	32%	97%	\$3.85	381,485
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$1.12	3%	97%	\$6.01	118,361
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.03	32%	93%	\$1.57	33,246

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.12	32%	97%	\$2.09	133,196
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.26	32%	97%	\$3.64	154,527
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$1.12	3%	97%	\$5.69	44,236
Gas	Energy Efficiency	Other Commercial	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	Existing	Per Sqft	0	12	\$0.76	50%	100%	\$7.17	342,950
Gas	Energy Efficiency	Other Commercial	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	New	Per Sqft	0	12	\$0.76	50%	100%	\$7.17	117,807
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$0.97	95,367
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$1.04	187,398
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.04	50%	97%	\$1.09	29,213
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.07	50%	99%	\$1.00	57,401
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$1.24	105,694
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$1.36	160,784
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$1.46	211,029
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.13	10%	97%	\$1.31	38,125
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.18	10%	99%	\$1.36	57,997
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.23	10%	100%	\$1.48	76,121
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.05	100%	97%	\$2.50	25,846
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$0.48	3%	100%	\$4.37	4,955
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.05	100%	97%	\$2.36	10,043
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$0.48	3%	100%	\$4.13	1,777
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.03	32%	93%	\$1.88	58,221
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.16	32%	97%	\$3.36	233,381
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.35	32%	97%	\$5.85	270,663

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$1.59	3%	97%	\$9.62	83,977
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.03	32%	93%	\$1.78	23,252
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.16	32%	97%	\$3.18	93,155
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.35	32%	97%	\$5.54	108,074
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$1.59	3%	97%	\$9.12	30,938
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$4.41	3,750
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$4.81	5,705
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$5.15	7,488
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.19	10%	97%	\$4.64	1,782
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.27	10%	99%	\$4.93	2,711
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.34	10%	100%	\$5.28	3,558
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.16	100%	97%	\$0.52	29,204
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$1.37	3%	100%	\$0.84	5,598
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.16	100%	97%	\$0.48	11,210
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$1.37	3%	100%	\$0.79	1,983
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.09	32%	93%	\$0.35	65,552
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.44	32%	97%	\$0.60	262,771
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$1.00	32%	97%	\$1.15	304,747
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$4.47	3%	97%	\$1.90	94,552
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.09	32%	93%	\$0.32	26,111
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.44	32%	97%	\$0.57	104,608
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$1.00	32%	97%	\$1.08	121,361

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$4.47	3%	97%	\$1.80	34,741
Gas	Energy Efficiency	School	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	Existing	Per Sqft	0	12	\$0.17	50%	100%	\$1.60	135,390
Gas	Energy Efficiency	School	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	New	Per Sqft	0	12	\$0.17	50%	100%	\$1.60	46,508
Gas	Energy Efficiency	School	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$1.25	92,476
Gas	Energy Efficiency	School	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$1.33	181,713
Gas	Energy Efficiency	School	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.06	50%	97%	\$1.24	46,235
Gas	Energy Efficiency	School	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.12	50%	99%	\$1.32	90,850
Gas	Energy Efficiency	School	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$1.58	13,523
Gas	Energy Efficiency	School	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$1.73	20,572
Gas	Energy Efficiency	School	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$1.86	27,001
Gas	Energy Efficiency	School	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.21	10%	97%	\$1.61	7,904
Gas	Energy Efficiency	School	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.30	10%	99%	\$1.72	12,024
Gas	Energy Efficiency	School	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.37	10%	100%	\$1.81	15,781
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.05	100%	97%	\$1.32	27,665
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$0.38	3%	100%	\$1.83	5,304
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.05	100%	97%	\$1.24	11,051
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$0.38	3%	100%	\$1.73	1,955
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.02	32%	93%	\$0.63	62,580
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.12	32%	97%	\$1.32	250,854
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.27	32%	97%	\$2.40	290,926
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$1.24	3%	97%	\$4.02	90,264
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.02	32%	93%	\$0.59	25,380

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.12	32%	97%	\$1.24	101,680
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.27	32%	97%	\$2.27	117,964
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$1.24	3%	97%	\$3.81	33,769
Gas	Energy Efficiency	University	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	Existing	Per Sqft	0	12	\$0.16	50%	100%	\$1.57	82,923
Gas	Energy Efficiency	University	Pool Heat	Equipment	RE - Installation of Solar Pool/Spa Heating Systems	Solar Pool/Spa Heating Systems	Standard Pool Heat Equipment	New	Per Sqft	0	12	\$0.16	50%	100%	\$1.57	28,485
Gas	Energy Efficiency	University	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$0.57	119,673
Gas	Energy Efficiency	University	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$0.61	235,155
Gas	Energy Efficiency	University	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.06	50%	97%	\$0.57	59,259
Gas	Energy Efficiency	University	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.12	50%	99%	\$0.61	116,441
Gas	Energy Efficiency	University	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$0.74	17,543
Gas	Energy Efficiency	University	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$0.81	26,688
Gas	Energy Efficiency	University	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$0.87	35,027
Gas	Energy Efficiency	University	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.21	10%	97%	\$0.75	10,144
Gas	Energy Efficiency	University	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.30	10%	99%	\$0.81	15,432
Gas	Energy Efficiency	University	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.37	10%	100%	\$0.85	20,254
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.05	100%	97%	\$0.74	30,320
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$0.39	3%	100%	\$1.07	5,812
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.05	100%	97%	\$0.70	12,163
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$0.39	3%	100%	\$1.01	2,152
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.02	32%	93%	\$0.34	68,766
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.12	32%	97%	\$0.74	275,653
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.27	32%	97%	\$1.38	319,687

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$1.24	3%	97%	\$2.34	99,187
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.02	32%	93%	\$0.31	27,901
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.12	32%	97%	\$0.70	111,781
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.27	32%	97%	\$1.30	129,682
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$1.24	3%	97%	\$2.21	37,123
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.07	50%	97%	\$1.73	2,489
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	Existing	Per Sqft	0	20	\$0.14	50%	99%	\$1.83	4,893
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Equipment	Boiler - High Efficiency	Boiler 85% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.03	50%	97%	\$1.30	800
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Equipment	Boiler - Premium Efficiency	Boiler 90% Thermal Efficiency	Federal Standard 2012 Boiler - 80% Thermal Efficiency	New	Per Sqft	0	20	\$0.07	50%	99%	\$1.63	1,572
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.24	10%	97%	\$2.18	68,015
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.35	10%	99%	\$2.38	103,466
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	Existing	Per Sqft	0	18	\$0.44	10%	100%	\$2.55	135,799
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Equipment	Furnace - High Efficiency	High Efficiency Furnace - 90% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.14	10%	97%	\$2.27	25,675
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Equipment	Furnace - Premium Efficiency	High Efficiency Furnace - 94% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.19	10%	99%	\$2.30	39,057
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Equipment	Furnace - ENERGY STAR Most Efficient	ENERGY STAR Most Efficient Furnace - 97% AFUE	Federal Standard 2003 Furnace - 80% AFUE	New	Per Sqft	0	18	\$0.24	10%	100%	\$2.48	51,262
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	10	\$0.01	100%	97%	\$0.75	5,516
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	Existing	Per Sqft	0	20	\$0.08	3%	100%	\$1.11	1,057
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.85	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	10	\$0.01	100%	97%	\$0.70	2,227
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Condensing Water Heater - EF 0.743	New	Per Sqft	0	20	\$0.08	3%	100%	\$1.05	394
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.00	32%	93%	-\$0.08	12,552
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.02	32%	97%	\$0.61	50,317
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	10	\$0.04	32%	97%	\$1.01	58,355

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	Existing	Per Sqft	0	20	\$0.19	3%	97%	\$1.78	18,105
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Storage	ENERGY STAR Storage Water Heater - EF 0.67	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.00	32%	93%	-\$0.08	5,100
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Water Heater - ENERGY STAR Tankless	ENERGY STAR Tankless Water Heater - EF 0.82	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.02	32%	97%	\$0.57	20,431
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Water Heater - Condensing	Condensing Water Heater - EF 0.90	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	10	\$0.04	32%	97%	\$0.95	23,703
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Equipment	Solar Hot Water (SHW)	Solar Water Heater	Federal Standard 2015 Storage Water Heater - EF 0.615	New	Per Sqft	0	20	\$0.19	3%	97%	\$1.68	6,785
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	69	15	\$2,875.00	25%	94%	\$4.70	27,810
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	103	15	\$2,875.00	25%	94%	\$3.26	336,612
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	472	15	\$4,250.00	5%	94%	\$0.84	18,635
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	702	15	\$4,250.00	5%	94%	\$0.54	42,151
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	50	15	\$4,375.00	50%	94%	\$12.03	7,665
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	75	15	\$4,375.00	50%	94%	\$8.07	4,176
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	289	15	\$3,875.00	75%	94%	\$1.54	1,025,071
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	430	15	\$3,875.00	75%	94%	\$1.06	2,036,422
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	148	15	\$3,000.00	50%	94%	\$2.51	312,365
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	220	15	\$3,000.00	50%	94%	\$1.69	956,156
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	526	15	\$13,375.00	25%	94%	\$3.35	148,252

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	782	15	\$13,375.00	25%	94%	\$2.23	59,518
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	1102	15	\$14,000.00	25%	94%	\$1.67	190,088
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (CO2 sensors)	Constant Ventilation	Existing	Per Building	1637	15	\$14,000.00	25%	94%	\$1.09	76,316
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	1260	10	\$241.65	1%	95%	-\$0.05	906
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	938	10	\$241.65	1%	95%	-\$0.04	339
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	1106	10	\$241.65	1%	95%	-\$0.05	10,911
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	1122	10	\$241.65	1%	95%	-\$0.05	4,221
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	980	10	\$2,255.37	2%	95%	\$0.31	587
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	730	10	\$2,255.37	2%	95%	\$0.45	220
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	861	10	\$2,255.37	2%	95%	\$0.37	7,062
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	873	10	\$2,255.37	2%	95%	\$0.36	2,732
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	68	10	\$80.55	0%	95%	\$0.12	92
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	50	10	\$80.55	0%	95%	\$0.19	35
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	59	10	\$80.55	0%	95%	\$0.15	1,113
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	60	10	\$80.55	0%	95%	\$0.15	431
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	556	10	\$603.31	2%	95%	\$0.10	671
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	414	10	\$603.31	2%	95%	\$0.17	251



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	488	10	\$603.31	2%	95%	\$0.13	8,075
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	495	10	\$603.31	2%	95%	\$0.13	3,123
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	987	10	\$631.51	2%	95%	\$0.03	730
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	735	10	\$631.51	2%	95%	\$0.06	273
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	866	10	\$631.51	2%	95%	\$0.04	8,782
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer - Ozonating	Ozonating Clothes Washer	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	879	10	\$631.51	2%	95%	\$0.04	3,397
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	4	7	\$43.17	95%	80%	\$2.35	292
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	4	7	\$43.17	95%	80%	\$2.35	147
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	4	7	\$43.17	95%	80%	\$2.35	4,008
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	4	7	\$43.17	95%	80%	\$2.35	1,528
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	36	7	\$402.89	95%	80%	\$2.35	962
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	36	7	\$402.89	95%	80%	\$2.35	484
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	36	7	\$402.89	95%	80%	\$2.35	13,196
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	36	7	\$402.89	95%	80%	\$2.35	5,030
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	1	7	\$14.39	95%	80%	\$2.35	559
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	1	7	\$14.39	95%	80%	\$2.35	281
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	1	7	\$14.39	95%	80%	\$2.35	7,666
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	1	7	\$14.39	95%	80%	\$2.35	2,922

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
						WF = 4.0	WF = 8.5									
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	10	7	\$107.77	95%	80%	\$2.35	519
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	10	7	\$107.77	95%	80%	\$2.35	261
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	10	7	\$107.77	95%	80%	\$2.35	7,120
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	10	7	\$107.77	95%	80%	\$2.35	2,714
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	10	7	\$112.81	95%	80%	\$2.35	333
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	10	7	\$112.81	95%	80%	\$2.35	167
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	Existing	Per Building	10	7	\$112.81	95%	80%	\$2.35	4,565
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Clothes Washer Commercial	ENERGY STAR Commercial Clothes Washer - MEF = 2.43, WF = 4.0	2013 Federal Standard Clothes Washer - MEF = 1.6, WF = 8.5	New	Per Building	10	7	\$112.81	95%	80%	\$2.35	1,740
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	188	15	\$34,943.57	15%	67%	\$25.10	31,758
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	279	15	\$34,943.57	15%	67%	\$16.97	384,396
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	1284	15	\$51,655.72	15%	67%	\$5.27	108,201
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	1907	15	\$51,655.72	15%	67%	\$3.52	244,737
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	685	15	\$53,175.00	15%	67%	\$10.75	22,159
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	1018	15	\$53,175.00	15%	67%	\$7.20	12,072
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	786	15	\$47,097.85	15%	67%	\$8.09	373,717
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	1168	15	\$47,097.85	15%	67%	\$5.46	742,431
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	403	15	\$36,462.85	15%	67%	\$12.41	174,588
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	598	15	\$36,462.85	15%	67%	\$8.35	534,417
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	1431	15	\$162,563.57	15%	67%	\$15.74	169,298
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	2125	15	\$162,563.57	15%	67%	\$10.57	67,968

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	2995	15	\$170,160.00	15%	67%	\$7.86	217,073
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Convert Constant Volume Air System to VAV	Variable Volume Air System	Constant Volume Air System	Existing	Per Building	4449	15	\$170,160.00	15%	67%	\$5.25	87,150
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	19	10	\$3,194.76	75%	94%	\$29.03	5,886
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	14	10	\$3,194.76	90%	94%	\$39.03	2,644
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	16	10	\$3,194.76	75%	94%	\$33.08	70,850
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	17	10	\$3,194.76	90%	94%	\$32.60	32,887
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	236	10	\$8,889.78	75%	94%	\$6.35	3,845
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	176	10	\$8,889.78	90%	94%	\$8.56	1,727
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	208	10	\$8,889.78	75%	94%	\$7.25	46,288
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	211	10	\$8,889.78	90%	94%	\$7.14	21,485
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	417	10	\$4,722.69	55%	94%	\$1.86	21,711
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	310	10	\$4,722.69	55%	94%	\$2.52	8,125
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	366	10	\$4,722.69	55%	94%	\$2.13	261,343
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	371	10	\$4,722.69	55%	94%	\$2.10	101,090
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	324	10	\$4,861.60	55%	80%	\$2.48	5,098
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	241	10	\$4,861.60	55%	80%	\$3.37	1,906
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	284	10	\$4,861.60	55%	80%	\$2.84	61,340
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	289	10	\$4,861.60	55%	80%	\$2.80	23,728

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	32	10	\$4,305.99	55%	80%	\$22.66	7,482
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	24	10	\$4,305.99	55%	80%	\$30.47	2,801
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	28	10	\$4,305.99	55%	80%	\$25.83	90,068
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	29	10	\$4,305.99	55%	80%	\$25.44	34,843
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	22	10	\$3,333.67	75%	94%	\$25.45	9,053
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	17	10	\$3,333.67	90%	94%	\$34.22	4,063
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	20	10	\$3,333.67	75%	94%	\$29.01	108,944
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	20	10	\$3,333.67	90%	94%	\$28.58	50,571
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	90	10	\$972.32	75%	94%	\$1.77	10,392
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	67	10	\$972.32	90%	94%	\$2.41	4,667
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	79	10	\$972.32	75%	94%	\$2.03	125,094
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	80	10	\$972.32	90%	94%	\$2.00	58,066
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	184	10	\$14,862.60	55%	94%	\$13.76	6,865
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	137	10	\$14,862.60	55%	94%	\$18.52	2,568
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	161	10	\$14,862.60	55%	94%	\$15.69	82,620
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	164	10	\$14,862.60	55%	94%	\$15.46	31,958
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	326	10	\$15,557.11	55%	94%	\$8.08	7,472
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	243	10	\$15,557.11	55%	94%	\$10.88	2,796

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
						demand)										
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	286	10	\$15,557.11	55%	94%	\$9.21	89,938
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	291	10	\$15,557.11	55%	94%	\$9.08	34,790
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	70	10	\$16,807.24	55%	94%	\$40.96	1,355
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	52	10	\$16,807.24	55%	94%	\$55.06	507
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	Existing	Per Building	62	10	\$16,807.24	55%	94%	\$46.68	16,309
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Demand Controlled Circulating Systems	Demand Controlled Circulating Systems (VFD control by demand)	Constant Circulation	New	Per Building	62	10	\$16,807.24	55%	94%	\$46.00	6,309
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	135	8	\$11,216.93	75%	59%	\$15.48	97,664
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	200	8	\$11,216.93	75%	59%	\$10.49	1,182,102
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	1244	8	\$31,212.31	75%	61%	\$4.51	2,166
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	1848	8	\$31,212.31	75%	61%	\$3.03	382,728
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	918	8	\$16,581.54	35%	26%	\$3.18	67,661
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	1365	8	\$16,581.54	35%	26%	\$2.12	153,041
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	490	8	\$17,069.23	5%	52%	\$6.73	4,026
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	729	8	\$17,069.23	5%	52%	\$4.50	2,193
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	563	8	\$15,118.46	45%	28%	\$4.99	323,874

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	836	8	\$15,118.46	45%	28%	\$3.38	643,412
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	288	8	\$11,704.62	50%	66%	\$7.72	396,074
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	428	8	\$11,704.62	50%	66%	\$5.19	1,212,392
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	37	8	\$3,413.85	5%	100%	\$15.24	7,356
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	1024	8	\$52,183.07	5%	34%	\$9.86	20,112
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	1521	8	\$52,183.07	5%	34%	\$6.61	8,074
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	2143	8	\$54,621.54	5%	34%	\$4.92	25,705
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	3184	8	\$54,621.54	5%	34%	\$3.27	10,320
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	857	8	\$59,010.77	5%	93%	\$13.47	1,507
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Direct Digital Control System-Installation	DDC Retrofit (Morning Warm-Up Control Logic Included in This Measure)	Pneumatic	Existing	Per Building	1272	8	\$59,010.77	5%	93%	\$9.03	113,470
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	918	8	\$12,580.00	75%	80%	\$2.33	236,067
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	1365	8	\$12,580.00	75%	80%	\$1.54	533,956
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	490	8	\$12,950.00	50%	80%	\$5.08	54,993
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	729	8	\$12,950.00	50%	80%	\$3.39	29,960
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	563	8	\$11,470.00	50%	80%	\$3.71	101,301
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	836	8	\$11,470.00	50%	80%	\$2.51	201,247
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	37	8	\$2,590.00	50%	100%	\$10.88	65,640

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	1024	8	\$39,590.00	50%	80%	\$7.43	420,819
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	1521	8	\$39,590.00	50%	80%	\$4.97	168,944
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	2143	8	\$41,440.00	50%	80%	\$3.70	539,577
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	3184	8	\$41,440.00	50%	80%	\$2.46	216,627
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	857	8	\$44,770.00	50%	98%	\$10.19	14,144
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Direct Digital Control System-Wireless System	DDC Retrofit - Wireless System	Pneumatic	Existing	Per Building	1272	8	\$44,770.00	50%	98%	\$6.82	1,065,029
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	3	12	\$42.32	95%	95%	\$2.29	58
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	3	12	\$42.32	95%	95%	\$2.29	29
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	3	12	\$42.32	95%	95%	\$2.29	799
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	3	12	\$42.32	95%	95%	\$2.29	305
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	4	12	\$65.11	95%	95%	\$2.29	393
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	4	12	\$65.11	95%	95%	\$2.29	197
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	4	12	\$65.11	95%	95%	\$2.29	5,383
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	4	12	\$65.11	95%	95%	\$2.29	2,052
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	10	12	\$145.60	95%	95%	\$2.29	313
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	10	12	\$145.60	95%	95%	\$2.29	157
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes	Standard High Temp Commercial Dishwasher	Existing	Per Building	10	12	\$145.60	95%	95%	\$2.29	4,292

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
						Extra Chemical Cost) - (ENERGY STAR)										
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	10	12	\$145.60	95%	95%	\$2.29	1,636
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	0	12	\$2.51	95%	95%	\$2.30	86
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	0	12	\$2.51	95%	95%	\$2.30	43
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	0	12	\$2.51	95%	95%	\$2.30	1,183
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	0	12	\$2.51	95%	95%	\$2.30	451
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	107	12	\$1,624.40	95%	95%	\$2.29	15,927
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	107	12	\$1,624.40	95%	95%	\$2.29	8,009
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	107	12	\$1,624.40	95%	95%	\$2.29	218,442
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	107	12	\$1,624.40	95%	95%	\$2.29	83,261
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	15	12	\$232.68	95%	95%	\$2.29	1,009
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	15	12	\$232.68	95%	95%	\$2.29	507
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	15	12	\$232.68	95%	95%	\$2.29	13,834
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	15	12	\$232.68	95%	95%	\$2.29	5,273
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost)	Standard High Temp Commercial Dishwasher	Existing	Per Building	15	12	\$232.68	95%	95%	\$2.29	618



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
						-(ENERGY STAR)										
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	15	12	\$232.68	95%	95%	\$2.29	311
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	Existing	Per Building	15	12	\$232.68	95%	95%	\$2.29	8,473
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwashing - Commercial - Low Temp	Low-Temp Commercial Dishwasher (Includes Extra Chemical Cost) - (ENERGY STAR)	Standard High Temp Commercial Dishwasher	New	Per Building	15	12	\$232.68	95%	95%	\$2.29	3,230
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	75	25	\$1,250.03	5%	92%	\$1.96	1,482
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	56	25	\$1,250.03	25%	92%	\$2.67	2,753
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	66	25	\$1,250.03	5%	92%	\$2.25	17,840
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	67	25	\$1,250.03	25%	92%	\$2.22	34,251
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	946	25	\$8,333.50	5%	92%	\$1.00	968
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	704	25	\$8,333.50	25%	92%	\$1.37	1,797
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	830	25	\$8,333.50	5%	92%	\$1.15	11,648
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	843	25	\$8,333.50	25%	92%	\$1.13	22,362
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	1666	25	\$12,083.58	5%	92%	\$0.81	7,524
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	1240	25	\$12,083.58	25%	92%	\$1.12	14,076
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	1463	25	\$12,083.58	5%	92%	\$0.93	90,558
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	1484	25	\$12,083.58	25%	92%	\$0.92	175,145
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	1297	25	\$11,458.56	5%	92%	\$1.00	2,082
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	965	25	\$11,458.56	25%	92%	\$1.38	3,890
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	1138	25	\$11,458.56	5%	92%	\$1.16	25,047
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	1155	25	\$11,458.56	25%	92%	\$1.14	48,447
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	130	25	\$2,083.38	5%	92%	\$1.89	3,060
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water	Install (Power-Pipe or GFX) - Heat Recovery	No Heat Recovery System	New	Per Building	96	25	\$2,083.38	25%	92%	\$2.57	5,727

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
					Heater	Water Heater										
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	114	25	\$2,083.38	5%	92%	\$2.17	36,836
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	115	25	\$2,083.38	25%	92%	\$2.14	71,251
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	89	25	\$2,291.71	5%	92%	\$3.07	2,279
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	67	25	\$2,291.71	25%	92%	\$4.16	4,230
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	78	25	\$2,291.71	5%	92%	\$3.51	27,420
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	80	25	\$2,291.71	25%	92%	\$3.46	52,648
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	359	25	\$1,875.04	5%	92%	\$0.56	2,470
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	267	25	\$1,875.04	25%	92%	\$0.78	4,493
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	315	25	\$1,875.04	5%	92%	\$0.65	29,488
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	320	25	\$1,875.04	25%	92%	\$0.64	56,644
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	735	25	\$7,916.83	5%	92%	\$1.24	2,371
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	547	25	\$7,916.83	25%	92%	\$1.70	4,428
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	645	25	\$7,916.83	5%	92%	\$1.43	28,517
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	655	25	\$7,916.83	25%	92%	\$1.41	55,156
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	1305	25	\$8,333.50	5%	92%	\$0.70	2,585
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	971	25	\$8,333.50	25%	92%	\$0.97	4,832
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	1146	25	\$8,333.50	5%	92%	\$0.81	31,103
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	1163	25	\$8,333.50	25%	92%	\$0.80	60,159
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	280	25	\$1,458.36	5%	92%	\$0.56	470
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	209	25	\$1,458.36	25%	92%	\$0.78	879
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	Existing	Per Building	246	25	\$1,458.36	5%	92%	\$0.65	5,654
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Drainwater Heat Recovery Water Heater	Install (Power-Pipe or GFX) - Heat Recovery Water Heater	No Heat Recovery System	New	Per Building	250	25	\$1,458.36	25%	92%	\$0.64	10,936

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	102	18	\$8,625.00	45%	45%	\$10.41	253,108
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	939	18	\$16,000.00	45%	45%	\$1.90	79,572
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	693	18	\$8,500.00	45%	45%	\$1.31	162,304
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	370	18	\$8,750.00	45%	45%	\$2.95	8,036
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	425	18	\$7,750.00	45%	45%	\$2.17	514,188
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	217	18	\$6,750.00	45%	45%	\$3.82	359,480
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	19	18	\$3,500.00	45%	45%	\$21.08	13,855
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	773	18	\$35,666.67	45%	45%	\$5.84	45,317
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	1618	18	\$37,333.33	45%	45%	\$2.88	58,107
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Duct Repair And Sealing	Reduction In Duct Losses to 5%	No Repair or Sealing, 15% duct losses	Existing	Per Building	647	18	\$22,687.50	45%	45%	\$4.42	229,762
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	118	14	\$28,078.84	5%	94%	\$34.44	8,372
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	65	14	\$28,078.84	5%	94%	\$62.86	1,955
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	175	14	\$28,078.84	5%	94%	\$23.14	99,552
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	98	14	\$28,078.84	5%	94%	\$41.41	24,261
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	1090	14	\$78,132.42	5%	94%	\$10.28	180
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	229	14	\$78,132.42	5%	94%	\$49.44	15
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	1620	14	\$78,132.42	5%	94%	\$6.89	31,297
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	347	14	\$78,132.42	5%	94%	\$32.56	2,793
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	805	14	\$41,507.85	5%	94%	\$7.37	28,729
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	776	14	\$41,507.85	5%	94%	\$7.65	11,501
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	1196	14	\$41,507.85	5%	94%	\$4.92	63,836
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	1177	14	\$41,507.85	5%	94%	\$5.01	26,682
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	430	14	\$42,728.68	5%	94%	\$14.31	5,906
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	305	14	\$42,728.68	5%	94%	\$20.23	1,741
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	639	14	\$42,728.68	5%	94%	\$9.59	3,161

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	462	14	\$42,728.68	5%	94%	\$13.30	972
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	493	14	\$37,845.39	5%	94%	\$11.02	103,626
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	239	14	\$37,845.39	5%	94%	\$22.88	21,201
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	733	14	\$37,845.39	5%	94%	\$7.38	202,239
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	362	14	\$37,845.39	5%	94%	\$15.05	43,176
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	252	14	\$29,299.66	5%	94%	\$16.73	47,018
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	126	14	\$29,299.66	5%	94%	\$33.57	10,005
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	375	14	\$29,299.66	5%	94%	\$11.22	141,390
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	191	14	\$29,299.66	5%	94%	\$22.10	31,396
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	33	14	\$8,545.73	5%	94%	\$37.88	5,449
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	24	14	\$8,545.73	5%	94%	\$50.83	1,707
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	897	14	\$130,627.65	5%	94%	\$21.01	45,193
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	750	14	\$130,627.65	5%	94%	\$25.17	15,873
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	1333	14	\$130,627.65	5%	94%	\$14.11	17,823
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	1137	14	\$130,627.65	5%	94%	\$16.55	6,535
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	1878	14	\$136,731.75	5%	94%	\$10.45	57,947
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	1569	14	\$136,731.75	5%	94%	\$12.53	20,352
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	2791	14	\$136,731.75	5%	94%	\$7.00	22,854
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	2380	14	\$136,731.75	5%	94%	\$8.22	8,379
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	751	14	\$147,719.12	5%	94%	\$28.43	1,221
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	408	14	\$147,719.12	5%	94%	\$52.46	272
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	Existing	Per Building	1115	14	\$147,719.12	5%	94%	\$19.10	90,370
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Exhaust Air to Ventilation Air Heat Recovery	Exhaust Air Heat Recovery	No Heat Recovery	New	Per Building	618	14	\$147,719.12	5%	94%	\$34.56	20,983

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	3	10	\$439.33	64%	85%	\$17.64	6
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	3	10	\$439.33	64%	85%	\$17.64	3
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	3	10	\$439.33	64%	85%	\$18.15	755
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	3	10	\$439.33	64%	85%	\$18.15	315
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	1	10	\$88.86	62%	85%	\$17.54	271
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	1	10	\$88.86	62%	85%	\$17.54	113
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	1	10	\$88.86	62%	85%	\$17.90	406
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	1	10	\$88.86	62%	85%	\$17.90	172
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	1	10	\$106.96	58%	85%	\$21.77	118
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	1	10	\$106.96	58%	85%	\$21.77	49
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	1	10	\$106.96	58%	85%	\$21.85	42
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	1	10	\$106.96	58%	85%	\$21.85	18
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	0	10	\$64.17	100%	85%	\$20.56	1,662
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	0	10	\$64.17	100%	85%	\$20.56	707

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	0	10	\$64.17	100%	85%	\$20.94	3,363
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	0	10	\$64.17	100%	85%	\$20.94	1,464
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	12	10	\$1,550.00	100%	85%	\$17.85	35,982
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	12	10	\$1,550.00	100%	85%	\$17.85	15,111
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	0	10	\$36.20	73%	85%	\$19.09	184
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	0	10	\$36.20	73%	85%	\$19.09	77
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	0	10	\$36.20	73%	85%	\$19.55	49
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	0	10	\$36.20	73%	85%	\$19.55	21
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	1	10	\$69.11	73%	85%	\$21.92	216
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	1	10	\$69.11	73%	85%	\$21.92	91
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	Existing	Per Building	1	10	\$69.11	73%	85%	\$21.92	57
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	Hood Pulls Conditioned Air (No Make-up Air)	New	Per Building	1	10	\$69.11	73%	85%	\$21.92	25
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	Per Building	71	10	\$113.37	85%	55%	\$0.19	9,945
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	Per Building	71	10	\$113.37	85%	55%	\$0.19	3,180
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	Per Building	7	10	\$22.93	85%	55%	\$0.45	6,884
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	Per Building	7	10	\$22.93	85%	55%	\$0.45	2,202

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	Per Building	16	10	\$27.61	85%	55%	\$0.21	6,657
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	Per Building	16	10	\$27.61	85%	55%	\$0.21	2,129
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	Per Building	6	10	\$27.61	85%	55%	\$0.77	24,494
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	Per Building	6	10	\$27.61	85%	55%	\$0.77	7,832
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	Per Building	65	10	\$400.00	85%	55%	\$0.97	117,219
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	Per Building	65	10	\$400.00	85%	55%	\$0.97	37,481
Gas	Energy Efficiency	School	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	Per Building	13	10	\$9.34	85%	55%	\$0.04	5,075
Gas	Energy Efficiency	School	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	Per Building	13	10	\$9.34	85%	55%	\$0.04	1,623
Gas	Energy Efficiency	University	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	Existing	Per Building	32	10	\$17.84	85%	55%	\$0.01	7,295
Gas	Energy Efficiency	University	Cooking	Retrofit	High Efficiency Convection Oven	Convection Oven	Standard Oven	New	Per Building	32	10	\$17.84	85%	55%	\$0.01	2,333
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	79	13	\$782.39	5%	39%	\$1.11	2,285
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	117	13	\$782.39	5%	39%	\$0.74	27,166
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	727	13	\$1,546.21	5%	39%	\$0.10	49
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	1080	13	\$1,546.21	5%	39%	\$0.04	8,539
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	537	13	\$1,070.63	5%	39%	\$0.10	7,839
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	797	13	\$1,070.63	5%	39%	\$0.04	17,420
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	287	13	\$2,269.19	5%	39%	\$1.07	1,611
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	426	13	\$2,269.19	5%	39%	\$0.69	862
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	329	13	\$1,223.44	10%	39%	\$0.39	56,556
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	489	13	\$1,223.44	10%	39%	\$0.24	110,377
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	168	13	\$417.73	5%	39%	\$0.20	12,827
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	250	13	\$417.73	5%	39%	\$0.11	38,577
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	22	13	\$347.05	5%	39%	\$1.39	1,417
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	598	13	\$3,427.28	5%	39%	\$0.72	12,332
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	889	13	\$3,427.28	5%	39%	\$0.45	4,864

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	1252	13	\$3,587.43	5%	39%	\$0.32	15,812
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	1860	13	\$3,587.43	5%	39%	\$0.18	6,237
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	501	13	\$1,036.14	5%	39%	\$0.20	333
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Infiltration Reduction	Install Caulking And Weatherstripping (ACH 0.65)	Infiltration Conditions (ACH 1.0)	Existing	Per Building	744	13	\$1,036.14	5%	39%	\$0.10	24,661
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	1	45	\$2,353.06	25%	83%	\$259.57	312
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	1	45	\$2,353.06	75%	83%	\$473.23	219
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	1	45	\$2,353.06	25%	83%	\$174.68	3,711
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	1	45	\$2,353.06	75%	83%	\$312.05	2,718
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	9	45	\$6,779.13	25%	70%	\$79.62	6
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	2	45	\$6,779.13	75%	70%	\$379.98	1
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	14	45	\$6,779.13	25%	70%	\$53.56	998
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	3	45	\$6,779.13	75%	70%	\$250.54	268
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	11	45	\$2,568.25	25%	70%	\$26.23	1,423
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	10	45	\$2,568.25	75%	70%	\$27.24	1,712
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	16	45	\$2,568.25	25%	70%	\$17.62	3,161
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	16	45	\$2,568.25	75%	70%	\$17.92	3,972
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	4	45	\$1,594.53	25%	70%	\$40.31	222
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	3	45	\$1,594.53	75%	70%	\$56.92	196
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	6	45	\$1,594.53	25%	70%	\$27.10	119
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	5	45	\$1,594.53	75%	70%	\$37.50	110
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	6	45	\$2,130.96	25%	50%	\$37.26	3,493
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	3	45	\$2,130.96	75%	50%	\$77.08	2,152
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	9	45	\$2,130.96	25%	50%	\$25.04	6,817
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	5	45	\$2,130.96	75%	50%	\$50.79	4,383
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	4	45	\$2,457.09	25%	70%	\$70.07	2,667
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	2	45	\$2,457.09	75%	70%	\$140.28	1,705
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	6	45	\$2,457.09	25%	70%	\$47.13	8,020
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	3	45	\$2,457.09	75%	70%	\$92.47	5,352



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	0	45	\$691.25	25%	83%	\$154.90	344
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	0	45	\$691.25	75%	83%	\$207.81	318
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	77	45	\$11,662.86	25%	70%	\$16.72	14,275
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	64	45	\$11,662.86	75%	70%	\$20.04	15,071
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	114	45	\$11,662.86	25%	70%	\$11.22	5,630
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	97	45	\$11,662.86	75%	70%	\$13.17	6,205
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	161	45	\$5,441.38	25%	70%	\$3.64	18,304
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	134	45	\$5,441.38	75%	70%	\$4.38	19,324
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	239	45	\$5,441.38	25%	70%	\$2.42	7,219
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	204	45	\$5,441.38	75%	70%	\$2.85	7,955
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	8	45	\$13,313.08	25%	70%	\$189.52	47
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	4	45	\$13,313.08	75%	70%	\$349.20	31
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	Existing	Per Building	12	45	\$13,313.08	25%	70%	\$127.53	3,457
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-38 c.i.	R-30 c.i. (WA State Code)	New	Per Building	6	45	\$13,313.08	75%	70%	\$230.24	2,413
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	17	45	\$3,235.45	25%	98%	\$21.47	6,094
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	9	45	\$3,235.45	75%	98%	\$39.23	4,275
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	25	45	\$3,235.45	25%	98%	\$14.42	72,458
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	14	45	\$3,235.45	75%	98%	\$25.84	53,050
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	149	45	\$9,321.30	25%	85%	\$6.82	110
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	31	45	\$9,321.30	75%	85%	\$32.92	28
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	222	45	\$9,321.30	25%	85%	\$4.55	19,172
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	47	45	\$9,321.30	75%	85%	\$21.67	5,138
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	112	45	\$3,531.33	25%	85%	\$3.39	17,854
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	108	45	\$3,531.33	75%	85%	\$3.53	21,469
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	166	45	\$3,531.33	25%	85%	\$2.25	39,673
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	163	45	\$3,531.33	75%	85%	\$2.29	49,808
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	51	45	\$2,192.49	25%	85%	\$4.62	3,159
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	36	45	\$2,192.49	75%	85%	\$6.57	2,797
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	76	45	\$2,192.49	25%	85%	\$3.08	1,691

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	55	45	\$2,192.49	75%	85%	\$4.29	1,562
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	45	45	\$2,930.08	25%	65%	\$7.17	32,065
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	22	45	\$2,930.08	75%	65%	\$14.92	19,747
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	66	45	\$2,930.08	25%	65%	\$4.79	62,579
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	33	45	\$2,930.08	75%	65%	\$9.80	40,216
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	29	45	\$3,378.50	25%	85%	\$12.90	24,007
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	14	45	\$3,378.50	75%	85%	\$25.92	15,338
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	43	45	\$3,378.50	25%	85%	\$8.65	72,199
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	22	45	\$3,378.50	75%	85%	\$17.05	48,143
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	4	45	\$950.47	25%	98%	\$23.48	3,669
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	3	45	\$950.47	75%	98%	\$31.54	3,393
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	107	45	\$16,036.42	25%	85%	\$16.55	24,026
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	89	45	\$16,036.42	75%	85%	\$19.83	25,250
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	159	45	\$16,036.42	25%	85%	\$11.11	9,476
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	135	45	\$16,036.42	75%	85%	\$13.04	10,395
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	223	45	\$7,481.89	25%	85%	\$3.60	30,806
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	187	45	\$7,481.89	75%	85%	\$4.33	32,375
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	332	45	\$7,481.89	25%	85%	\$2.39	12,150
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	283	45	\$7,481.89	75%	85%	\$2.82	13,329
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	71	45	\$18,305.46	25%	85%	\$28.59	515
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	38	45	\$18,305.46	75%	85%	\$52.76	344
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	Existing	Per Building	105	45	\$18,305.46	25%	85%	\$19.21	38,126
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-49 c.i.	R-38 c.i.	New	Per Building	58	45	\$18,305.46	75%	85%	\$34.75	26,594
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	186	45	\$17,883.24	25%	85%	\$10.52	58,939
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	277	45	\$17,883.24	25%	85%	\$7.05	700,830
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	1672	45	\$51,521.36	25%	10%	\$3.30	145
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	2484	45	\$51,521.36	25%	10%	\$2.19	25,173
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	918	45	\$19,518.70	25%	13%	\$2.24	22,339
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	1364	45	\$19,518.70	25%	13%	\$1.47	49,639

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	422	45	\$12,118.44	25%	25%	\$3.07	7,605
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	627	45	\$12,118.44	25%	25%	\$2.03	4,071
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	367	45	\$16,195.31	25%	4%	\$4.78	16,179
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	545	45	\$16,195.31	25%	4%	\$3.18	31,575
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	237	45	\$18,673.87	25%	30%	\$8.64	69,373
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	351	45	\$18,673.87	25%	30%	\$5.78	208,631
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	37	45	\$5,253.51	25%	85%	\$15.73	26,018
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	3680	45	\$88,637.73	25%	15%	\$2.56	145,660
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	5467	45	\$88,637.73	25%	15%	\$1.69	57,448
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	7703	45	\$41,354.45	25%	13%	\$0.49	161,864
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	11444	45	\$41,354.45	25%	13%	\$0.29	63,841
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	793	45	\$101,179.32	25%	10%	\$14.04	678
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Ceiling	R-30 c.i. (WA State Code)	Average Existing Conditions	Existing	Per Building	1178	45	\$101,179.32	25%	10%	\$9.42	50,128
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	49	20	\$2,834.63	75%	15%	\$6.60	62,451
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	454	20	\$7,887.68	75%	15%	\$1.85	20,570
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	335	20	\$4,190.34	75%	15%	\$1.28	41,962
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	179	20	\$4,313.57	75%	15%	\$2.88	2,071
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	205	20	\$3,820.59	75%	15%	\$2.12	133,590
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	105	20	\$2,957.88	75%	15%	\$3.30	92,531
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	9	20	\$862.71	75%	15%	\$8.87	3,308
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	373	20	\$13,187.21	75%	15%	\$4.25	11,496
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	781	20	\$13,803.44	75%	15%	\$2.08	14,787
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Duct	R-7 (WA State Code)	No Insulation	Existing	Per Building	312	20	\$14,912.65	75%	15%	\$5.81	59,590
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	179	45	\$17,883.24	35%	90%	\$10.97	79,708
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	266	45	\$17,883.24	35%	90%	\$7.35	943,303
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	1675	45	\$51,521.36	35%	45%	\$3.30	910
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	2489	45	\$51,521.36	35%	45%	\$2.18	157,249
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	487	45	\$19,518.70	35%	35%	\$4.34	44,389
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	723	45	\$19,518.70	35%	35%	\$2.88	98,170

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	678	45	\$12,118.44	35%	45%	\$1.87	30,532
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	1008	45	\$12,118.44	35%	45%	\$1.22	16,264
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	644	45	\$16,195.31	35%	15%	\$2.68	148,921
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	957	45	\$16,195.31	35%	15%	\$1.77	289,266
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	557	45	\$18,673.87	35%	50%	\$3.61	377,062
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	827	45	\$18,673.87	35%	50%	\$2.39	1,128,607
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	49	45	\$5,253.51	35%	90%	\$11.80	49,342
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	1392	45	\$88,637.73	35%	35%	\$6.95	175,857
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	2068	45	\$88,637.73	35%	35%	\$4.64	69,031
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	2104	45	\$41,354.45	35%	35%	\$2.07	163,305
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	3126	45	\$41,354.45	35%	35%	\$1.36	64,105
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	1698	45	\$101,179.32	35%	45%	\$6.50	9,110
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-30 (WA State Code)	Average Existing Conditions	Existing	Per Building	2523	45	\$101,179.32	35%	45%	\$4.34	670,715
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	33	45	\$2,353.06	35%	90%	\$7.72	13,773
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	18	45	\$2,353.06	35%	90%	\$14.17	3,616
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	49	45	\$2,353.06	35%	90%	\$5.16	162,995
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	28	45	\$2,353.06	35%	90%	\$9.30	44,866
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	312	45	\$6,779.13	35%	45%	\$2.30	163
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	65	45	\$6,779.13	35%	45%	\$11.38	14
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	463	45	\$6,779.13	35%	45%	\$1.51	28,208
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	99	45	\$6,779.13	35%	45%	\$7.47	2,619
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	203	45	\$2,568.25	35%	35%	\$1.29	18,326
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	196	45	\$2,568.25	35%	35%	\$1.34	7,403
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	302	45	\$2,568.25	35%	35%	\$0.83	40,530
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	297	45	\$2,568.25	35%	35%	\$0.85	17,175
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	87	45	\$1,594.53	35%	45%	\$1.92	3,765
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	62	45	\$1,594.53	35%	45%	\$2.76	1,156
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	129	45	\$1,594.53	35%	45%	\$1.26	2,006
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	93	45	\$1,594.53	35%	45%	\$1.78	646

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	120	45	\$2,130.96	35%	15%	\$1.86	27,435
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	58	45	\$2,130.96	35%	15%	\$3.96	5,672
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	178	45	\$2,130.96	35%	15%	\$1.22	53,290
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	88	45	\$2,130.96	35%	15%	\$2.57	11,550
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	71	45	\$2,457.09	35%	50%	\$3.71	45,502
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	36	45	\$2,457.09	35%	50%	\$7.53	10,320
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	106	45	\$2,457.09	35%	50%	\$2.46	136,196
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	54	45	\$2,457.09	35%	50%	\$4.93	32,391
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	9	45	\$691.25	35%	90%	\$8.31	8,534
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	7	45	\$691.25	35%	90%	\$11.18	2,920
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	259	45	\$11,662.86	35%	35%	\$4.88	31,801
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	216	45	\$11,662.86	35%	35%	\$5.86	11,649
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	385	45	\$11,662.86	35%	35%	\$3.25	12,483
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	328	45	\$11,662.86	35%	35%	\$3.83	4,796
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	392	45	\$5,441.38	35%	35%	\$1.43	29,772
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	327	45	\$5,441.38	35%	35%	\$1.73	10,783
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	582	45	\$5,441.38	35%	35%	\$0.93	11,687
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	496	45	\$5,441.38	35%	35%	\$1.11	4,439
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	218	45	\$13,313.08	35%	45%	\$6.68	1,105
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	118	45	\$13,313.08	35%	45%	\$12.39	259
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	Existing	Per Building	323	45	\$13,313.08	35%	45%	\$4.46	81,323
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Floor (non-slab)	R-38	R-30 (WA State Code)	New	Per Building	179	45	\$13,313.08	35%	45%	\$8.13	20,029
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	343	45	\$9,537.34	10%	35%	\$2.97	15,563
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	510	45	\$9,537.34	10%	35%	\$1.96	184,182
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	3259	45	\$24,043.11	10%	35%	\$0.71	377
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	4957	45	\$24,043.11	10%	35%	\$0.43	66,619
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	3787	45	\$9,882.27	10%	35%	\$0.18	97,154
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	3575	45	\$9,882.27	10%	35%	\$0.20	136,525
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	1315	45	\$15,529.13	10%	35%	\$1.20	12,600

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	2348	45	\$15,529.13	10%	35%	\$0.62	8,069
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	1446	45	\$14,504.82	10%	35%	\$1.00	220,193
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	3447	45	\$14,504.82	10%	35%	\$0.36	686,489
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	735	45	\$7,572.78	10%	35%	\$1.03	93,084
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	1451	45	\$7,572.78	10%	35%	\$0.47	370,106
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	100	45	\$3,976.43	10%	35%	\$4.31	10,258
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	2266	45	\$17,892.57	10%	35%	\$0.77	79,033
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	3366	45	\$17,892.57	10%	35%	\$0.48	31,024
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	4744	45	\$18,728.67	10%	35%	\$0.33	102,638
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	7047	45	\$18,728.67	10%	35%	\$0.18	40,290
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	2200	45	\$39,344.52	10%	35%	\$1.87	2,466
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Insulation - Wall	R-16	Average Existing Conditions	Existing	Per Building	5101	45	\$39,344.52	10%	35%	\$0.74	283,324
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	65	30	\$1,725.00	10%	95%	\$2.58	31,506
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	231	30	\$4,800.00	10%	95%	\$1.57	3,658
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	784	30	\$2,550.00	10%	95%	\$0.23	35,025
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	308	30	\$2,625.00	10%	95%	\$0.89	1,279
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	241	30	\$2,325.00	10%	95%	\$0.97	57,236
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	128	30	\$1,800.00	10%	95%	\$1.47	41,179
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	16	30	\$525.00	10%	95%	\$2.32	2,077
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	758	30	\$8,025.00	10%	95%	\$1.12	8,540
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	1587	30	\$8,400.00	10%	95%	\$0.51	10,966
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Leak Proof Duct Fittings	Quick connect fittings that do not require mastic or drawbands	Standard Duct Fittings	New	Per Building	412	30	\$9,075.00	10%	95%	\$2.47	27,609
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	5	9	\$3.89	95%	25%	\$0.06	529

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	4	9	\$3.89	95%	25%	\$0.08	6,365
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	63	9	\$10.82	95%	25%	-\$0.05	345
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	55	9	\$10.82	95%	25%	-\$0.05	4,158
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	111	9	\$14.37	95%	25%	-\$0.06	2,663
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	98	9	\$14.37	95%	25%	-\$0.06	32,062
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	86	9	\$59.15	95%	25%	\$0.04	739
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	76	9	\$59.15	95%	25%	\$0.06	8,893
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	9	9	\$5.24	95%	25%	\$0.03	1,077
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	8	9	\$5.24	95%	25%	\$0.04	12,964
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	6	9	\$4.06	95%	25%	\$0.04	815
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	5	9	\$4.06	95%	25%	\$0.06	9,815
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	24	9	\$3.38	95%	25%	-\$0.06	934
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	21	9	\$3.38	95%	25%	-\$0.05	11,238
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	49	9	\$18.08	95%	25%	-\$0.02	845
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	43	9	\$18.08	95%	25%	-\$0.01	10,169
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	87	9	\$18.93	95%	25%	-\$0.04	919
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	76	9	\$18.93	95%	25%	-\$0.04	11,060
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	19	9	\$4.09	95%	25%	-\$0.04	166
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	2.2 GPM (Federal Code)	3.0 GPM	Existing	Per Building	16	9	\$4.09	95%	25%	-\$0.04	1,998
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	29	4	\$195.00	95%	74%	\$2.11	466
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	29	4	\$195.00	95%	74%	\$2.11	234
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	29	4	\$195.00	95%	74%	\$2.11	6,394
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	29	4	\$195.00	95%	74%	\$2.11	2,437
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	6	4	\$39.00	95%	83%	\$2.11	459
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	6	4	\$39.00	95%	83%	\$2.11	231
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	6	4	\$39.00	95%	83%	\$2.11	6,295
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	6	4	\$39.00	95%	83%	\$2.11	2,401
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	29	4	\$195.00	95%	93%	\$2.11	909
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	29	4	\$195.00	95%	93%	\$2.11	457

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	29	4	\$195.00	95%	93%	\$2.11	12,472
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	29	4	\$195.00	95%	93%	\$2.11	4,754
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	19	4	\$130.00	95%	93%	\$2.11	9,706
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	19	4	\$130.00	95%	93%	\$2.11	4,881
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	19	4	\$130.00	95%	93%	\$2.11	133,116
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	19	4	\$130.00	95%	93%	\$2.11	50,740
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	36	4	\$247.00	95%	46%	\$2.11	2,628
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	36	4	\$247.00	95%	46%	\$2.11	1,321
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	36	4	\$247.00	95%	46%	\$2.11	36,037
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	36	4	\$247.00	95%	46%	\$2.11	13,736
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	35	4	\$234.00	95%	65%	\$2.11	1,541
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	35	4	\$234.00	95%	65%	\$2.11	775
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	35	4	\$234.00	95%	65%	\$2.11	21,132
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	35	4	\$234.00	95%	65%	\$2.11	8,055
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	35	4	\$234.00	95%	65%	\$2.11	944
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	35	4	\$234.00	95%	65%	\$2.11	475
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	Existing	Per Building	35	4	\$234.00	95%	65%	\$2.11	12,942
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Pre-Rinse Spray Valves	0.6 GPM	1.6 GPM (Federal Standard)	New	Per Building	35	4	\$234.00	95%	65%	\$2.11	4,934
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	5	10	\$51.48	95%	35%	\$1.61	175
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	6	10	\$51.48	95%	35%	\$1.32	2,897
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	149	10	\$1,059.80	95%	35%	\$1.14	1,781
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	180	10	\$1,059.80	95%	35%	\$0.93	29,512
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	1	10	\$11.74	95%	35%	\$2.18	155
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	1	10	\$11.74	95%	35%	\$1.79	2,572
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	1	10	\$9.08	95%	35%	\$2.17	132
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	1	10	\$9.08	95%	35%	\$1.79	2,186
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	24	10	\$289.28	95%	35%	\$2.00	575
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	29	10	\$289.28	95%	35%	\$1.64	9,527
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	25	10	\$302.80	95%	35%	\$2.00	369



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	2.5 GPM (Federal Code)	3.0 GPM	Existing	Per Building	30	10	\$302.80	95%	35%	\$1.64	6,108
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	4	12	\$25.44	75%	90%	\$0.98	1,074
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	3	12	\$25.44	75%	90%	\$1.13	12,925
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	47	12	\$101.76	75%	90%	\$0.26	698
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	42	12	\$101.76	75%	90%	\$0.30	8,396
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	83	12	\$147.55	75%	70%	\$0.20	4,237
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	73	12	\$147.55	75%	70%	\$0.23	50,985
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	65	12	\$139.92	75%	90%	\$0.26	1,491
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	57	12	\$139.92	75%	90%	\$0.30	17,865
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	6	12	\$25.44	75%	30%	\$0.53	739
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	6	12	\$25.44	75%	30%	\$0.62	8,891
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	4	12	\$27.99	75%	90%	\$0.90	1,585
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	4	12	\$27.99	75%	90%	\$1.04	18,954
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	18	12	\$25.44	75%	90%	\$0.14	1,772
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	16	12	\$25.44	75%	90%	\$0.17	21,117
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	37	12	\$96.67	75%	70%	\$0.33	1,325
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	32	12	\$96.67	75%	70%	\$0.39	15,909
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	65	12	\$101.76	75%	70%	\$0.16	1,450
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	57	12	\$101.76	75%	70%	\$0.20	17,428
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	14	12	\$25.44	75%	90%	\$0.20	340
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Pipe Insulation - Hot Water (DWH)	1.0" of Insulation, assuming R-4 (WA State Code)	No Insulation	Existing	Per Building	12	12	\$25.44	75%	90%	\$0.24	4,097
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	39	10	\$351.92	95%	26%	\$0.56	12,272
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	22	10	\$351.92	95%	13%	\$1.91	1,352

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	58	10	\$351.92	95%	26%	\$0.45	145,231
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	33	10	\$351.92	95%	13%	\$1.32	16,616
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	363	10	\$339.91	95%	31%	-\$0.28	342
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	76	10	\$339.91	95%	15%	-\$0.66	13
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	540	10	\$339.91	95%	31%	-\$0.20	59,164
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	116	10	\$339.91	95%	15%	-\$0.37	2,285
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	268	10	\$476.65	95%	24%	-\$0.07	43,192
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	259	10	\$476.65	95%	12%	\$0.13	7,392
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	399	10	\$476.65	95%	24%	-\$0.07	96,405
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	392	10	\$476.65	95%	12%	\$0.05	16,987
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	143	10	\$790.29	95%	31%	\$0.81	11,368
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	102	10	\$790.29	95%	15%	\$1.21	1,466
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	213	10	\$790.29	95%	31%	\$0.51	6,036
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	154	10	\$790.29	95%	15%	\$0.76	811
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	164	10	\$523.76	95%	26%	\$0.24	172,480
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	80	10	\$523.76	95%	13%	\$0.87	14,964
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	244	10	\$523.76	95%	26%	\$0.17	331,859
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	121	10	\$523.76	95%	13%	\$0.57	30,185
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	84	10	\$351.68	95%	28%	\$0.42	80,981
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	42	10	\$351.68	95%	14%	\$1.15	7,707
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	125	10	\$351.68	95%	28%	\$0.28	241,154
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	64	10	\$351.68	95%	14%	\$0.75	23,960
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	11	10	\$364.60	95%	25%	\$2.89	7,606

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	8	10	\$364.60	95%	13%	\$6.21	1,083
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	299	10	\$330.32	95%	21%	-\$0.01	57,727
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	250	10	\$330.32	95%	10%	\$0.07	8,855
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	444	10	\$330.32	95%	21%	-\$0.03	22,660
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	379	10	\$330.32	95%	10%	\$0.01	3,611
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	626	10	\$741.08	95%	21%	\$0.09	74,969
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	523	10	\$741.08	95%	10%	\$0.13	11,371
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	930	10	\$741.08	95%	21%	\$0.03	29,429
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	793	10	\$741.08	95%	10%	\$0.05	4,637
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	250	10	\$327.24	95%	24%	\$0.10	1,777
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	136	10	\$327.24	95%	12%	\$0.28	175
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	Existing	Per Building	372	10	\$327.24	95%	24%	\$0.03	129,650
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Programmable Thermostat - Web Enabled	Programmable Thermostat - Web Enabled	Programmable Thermostat	New	Per Building	206	10	\$327.24	95%	12%	\$0.15	13,391
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	160	30	\$3,566.04	10%	95%	\$2.51	9,377
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	243	30	\$3,566.04	10%	95%	\$1.62	115,245
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	841	30	\$9,922.89	10%	95%	\$1.28	110
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	1275	30	\$9,922.89	10%	95%	\$0.81	19,829
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	192	30	\$5,271.54	10%	95%	\$3.12	5,587
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	292	30	\$5,271.54	10%	95%	\$2.02	12,838
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	105	30	\$5,426.58	10%	95%	\$5.98	1,172
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	159	30	\$5,426.58	10%	95%	\$3.91	649
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	839	30	\$4,806.40	10%	95%	\$0.56	147,275
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	1273	30	\$4,806.40	10%	95%	\$0.33	297,079
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	42	30	\$3,721.09	10%	95%	\$10.30	6,516
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	64	30	\$3,721.09	10%	95%	\$6.76	20,256
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	134	30	\$1,085.31	10%	95%	\$0.85	16,829

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	128	30	\$16,589.84	10%	95%	\$15.19	5,274
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	194	30	\$16,589.84	10%	95%	\$9.98	2,151
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	323	30	\$17,365.07	10%	95%	\$6.23	8,173
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	489	30	\$17,365.07	10%	95%	\$4.07	3,333
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	43	30	\$18,760.47	10%	95%	\$51.62	56
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	RE - Thermal Wall	Trombe wall	Conventional Wall Construction	New	Per Building	65	30	\$18,760.47	10%	95%	\$34.00	4,273
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	118	7	\$3,105.00	90%	80%	\$4.72	106,946
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	175	7	\$3,105.00	90%	80%	\$3.25	1,265,658
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	1090	7	\$8,640.00	90%	80%	\$1.27	2,514
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	1620	7	\$8,640.00	90%	80%	\$0.85	434,334
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	805	7	\$4,590.00	90%	80%	\$0.86	409,702
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	1196	7	\$4,590.00	90%	80%	\$0.56	914,463
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	430	7	\$4,725.00	90%	80%	\$2.24	82,170
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	639	7	\$4,725.00	90%	80%	\$1.48	43,627
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	493	7	\$4,185.00	90%	80%	\$1.53	1,503,126
Gas	Energy Efficiency	Office	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	733	7	\$4,185.00	90%	80%	\$1.04	2,892,083
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	252	7	\$3,240.00	90%	80%	\$2.48	638,834
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	375	7	\$3,240.00	90%	80%	\$1.67	1,902,384
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	33	7	\$945.00	90%	80%	\$3.41	67,070
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	897	7	\$14,445.00	90%	80%	\$3.28	629,023
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	1333	7	\$14,445.00	90%	80%	\$2.18	246,916
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	1878	7	\$15,120.00	90%	80%	\$1.63	816,890
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	2791	7	\$15,120.00	90%	80%	\$1.06	320,668
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	751	7	\$16,335.00	90%	80%	\$4.58	16,851

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Commissioning of Existing Buildings	Existing Building Commissioning (Recommissioning)	Average Existing Conditions	Existing	Per Building	1115	7	\$16,335.00	90%	80%	\$3.05	1,229,807
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	Per Building	76	9	\$147.03	5%	62%	\$0.27	698
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	Per Building	76	9	\$147.03	5%	62%	\$0.27	234
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	Per Building	15	9	\$29.74	5%	62%	\$0.27	954
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	Per Building	15	9	\$29.74	5%	62%	\$0.27	320
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	Per Building	18	9	\$35.79	3%	62%	\$0.27	250
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	Per Building	18	9	\$35.79	3%	62%	\$0.27	84
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	Per Building	11	9	\$21.48	5%	62%	\$0.27	3,222
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	Per Building	11	9	\$21.48	5%	62%	\$0.27	1,081
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	Per Building	267	9	\$518.75	20%	62%	\$0.27	127,546
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	Per Building	267	9	\$518.75	20%	62%	\$0.27	42,786
Gas	Energy Efficiency	School	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	Per Building	6	9	\$12.11	5%	62%	\$0.27	155
Gas	Energy Efficiency	School	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	Per Building	6	9	\$12.11	5%	62%	\$0.27	52
Gas	Energy Efficiency	University	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	Existing	Per Building	12	9	\$23.13	5%	62%	\$0.27	182
Gas	Energy Efficiency	University	Cooking	Retrofit	Steam Cooker	ENERGY STAR Steam Cooker	Non ENERGY STAR Steam Cooker	New	Per Building	12	9	\$23.13	5%	62%	\$0.27	61
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	9	9	\$451.95	95%	95%	\$8.71	3,767
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	7	9	\$451.95	95%	95%	\$11.73	1,410
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	8	9	\$451.95	95%	95%	\$9.93	45,349
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	8	9	\$451.95	95%	95%	\$9.79	17,542
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	118	9	\$1,257.60	95%	95%	\$1.86	2,461
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	88	9	\$1,257.60	95%	95%	\$2.53	921
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	104	9	\$1,257.60	95%	95%	\$2.13	29,628
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	105	9	\$1,257.60	95%	95%	\$2.10	11,460
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	208	9	\$1,670.25	95%	90%	\$1.38	17,978
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	155	9	\$1,670.25	95%	90%	\$1.89	6,729
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	183	9	\$1,670.25	95%	90%	\$1.59	216,420

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	186	9	\$1,670.25	95%	90%	\$1.56	83,713
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	162	9	\$6,877.50	95%	85%	\$7.67	4,710
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	121	9	\$6,877.50	95%	85%	\$10.33	1,763
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	142	9	\$6,877.50	95%	85%	\$8.75	56,695
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	144	9	\$6,877.50	95%	85%	\$8.62	21,930
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	16	9	\$609.15	95%	85%	\$6.79	6,866
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	12	9	\$609.15	95%	85%	\$9.14	2,570
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	14	9	\$609.15	95%	85%	\$7.74	82,648
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	14	9	\$609.15	95%	85%	\$7.63	31,973
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	11	9	\$471.60	95%	95%	\$7.63	5,809
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	8	9	\$471.60	95%	95%	\$10.28	2,174
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	10	9	\$471.60	95%	95%	\$8.70	69,930
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	10	9	\$471.60	95%	95%	\$8.57	27,050
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	45	9	\$393.00	95%	75%	\$1.52	5,251
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	33	9	\$393.00	95%	75%	\$2.07	1,965
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	39	9	\$393.00	95%	75%	\$1.74	63,213
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	40	9	\$393.00	95%	75%	\$1.71	24,451
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	92	9	\$2,102.55	95%	75%	\$4.10	4,752
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	68	9	\$2,102.55	95%	75%	\$5.53	1,778
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	81	9	\$2,102.55	95%	75%	\$4.68	57,201
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	82	9	\$2,102.55	95%	75%	\$4.61	22,125
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	163	9	\$2,200.80	95%	75%	\$2.38	5,168
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	121	9	\$2,200.80	95%	75%	\$3.23	1,934

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	143	9	\$2,200.80	95%	75%	\$2.73	62,211
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	145	9	\$2,200.80	95%	75%	\$2.68	24,064
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	35	9	\$475.53	95%	95%	\$2.40	1,183
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	26	9	\$475.53	95%	95%	\$3.25	443
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	Existing	Per Building	31	9	\$475.53	95%	95%	\$2.74	14,235
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Ultrasonic Faucet Control	Install Ultrasonic Motion Faucet Control	No Faucet Control	New	Per Building	31	9	\$475.53	95%	95%	\$2.70	5,506
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	Per Building	539	10	\$29,120.00	75%	55%	\$9.16	4,694
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	Per Building	473	10	\$29,120.00	75%	55%	\$10.45	56,467
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	Per Building	1	10	\$107.09	75%	100%	\$35.89	194
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Water Cooled Refrigeration with Heat Recovery	Heat Recovery from refrigeration system. Applied to Water Heating Electric End use	No heat recovery	Existing	Per Building	0	10	\$107.09	75%	100%	\$40.90	2,325
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	Per Building	57	45	\$8,149.30	15%	60%	\$15.86	4,423
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	Per Building	47	45	\$8,149.30	80%	60%	\$19.00	9,842
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	Per Building	84	45	\$8,149.30	15%	60%	\$10.64	1,736
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	Per Building	72	45	\$8,149.30	80%	60%	\$12.49	4,013
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	Per Building	118	45	\$8,530.11	15%	60%	\$7.87	5,744
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	Per Building	99	45	\$8,530.11	80%	60%	\$9.44	12,632
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	Existing	Per Building	176	45	\$8,530.11	15%	60%	\$5.26	2,255
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.32	U-0.40 (WA State Code)	New	Per Building	150	45	\$8,530.11	80%	60%	\$6.19	5,151
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	12	45	\$16,787.65	15%	80%	\$145.28	1,659
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	18	45	\$16,787.65	15%	80%	\$98.51	19,631
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	54	45	\$33,177.25	15%	85%	\$62.55	20
Gas	Energy Efficiency	Grocery	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	81	45	\$33,177.25	15%	85%	\$42.45	3,428
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	69	45	\$22,972.46	15%	60%	\$34.31	3,943

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hospital	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	103	45	\$22,972.46	15%	60%	\$23.18	8,800
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	21	45	\$48,690.05	15%	50%	\$250.81	381
Gas	Energy Efficiency	Hotel Motel	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	32	45	\$48,690.05	15%	50%	\$168.87	203
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	13	45	\$8,963.15	15%	70%	\$75.90	4,152
Gas	Energy Efficiency	Other Commercial	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	19	45	\$8,963.15	15%	70%	\$51.55	12,365
Gas	Energy Efficiency	Restaurant	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	2	45	\$7,446.57	15%	80%	\$465.78	498
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	768	45	\$73,539.29	15%	60%	\$10.51	59,957
Gas	Energy Efficiency	School	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	1141	45	\$73,539.29	15%	60%	\$7.04	23,536
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	1607	45	\$76,975.70	15%	60%	\$5.20	77,865
Gas	Energy Efficiency	University	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	2388	45	\$76,975.70	15%	60%	\$3.46	30,566
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	38	45	\$22,232.39	15%	98%	\$65.42	153
Gas	Energy Efficiency	Warehouse	Space Heat Furnace	Retrofit	Windows-High Efficiency	U-0.40 (WA State Code)	Average Existing Conditions	Existing	Per Building	56	45	\$22,232.39	15%	98%	\$44.01	11,191
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	15	9	\$4.58	95%	75%	-\$0.02	4,596
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	11	9	\$4.58	95%	75%	-\$0.01	1,720
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	13	9	\$4.58	95%	75%	-\$0.02	55,323
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	13	9	\$4.58	95%	75%	-\$0.02	21,403
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	183	9	\$12.74	95%	75%	-\$0.07	3,003
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	136	9	\$12.74	95%	75%	-\$0.07	1,124
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	160	9	\$12.74	95%	75%	-\$0.07	36,146
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	163	9	\$12.74	95%	75%	-\$0.07	13,982
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	322	9	\$16.92	95%	75%	-\$0.07	23,153
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	240	9	\$16.92	95%	75%	-\$0.07	8,666
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	283	9	\$16.92	95%	75%	-\$0.07	278,711
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	287	9	\$16.92	95%	75%	-\$0.07	107,812
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	250	9	\$69.65	95%	75%	-\$0.03	6,422
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	186	9	\$69.65	95%	75%	-\$0.01	2,404
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	220	9	\$69.65	95%	75%	-\$0.02	77,309
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	223	9	\$69.65	95%	75%	-\$0.03	29,905
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	25	9	\$6.17	95%	75%	-\$0.04	9,361



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	19	9	\$6.17	95%	75%	-\$0.02	3,505
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	22	9	\$6.17	95%	75%	-\$0.03	112,683
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	22	9	\$6.17	95%	75%	-\$0.03	43,599
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	17	9	\$4.78	95%	75%	-\$0.03	7,087
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	13	9	\$4.78	95%	75%	-\$0.01	2,653
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	15	9	\$4.78	95%	75%	-\$0.02	85,307
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	15	9	\$4.78	95%	75%	-\$0.03	33,003
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	69	9	\$3.98	95%	75%	-\$0.07	8,115
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	52	9	\$3.98	95%	75%	-\$0.07	3,038
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	61	9	\$3.98	95%	75%	-\$0.07	97,688
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	62	9	\$3.98	95%	75%	-\$0.07	37,788
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	142	9	\$21.29	95%	75%	-\$0.06	7,343
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	106	9	\$21.29	95%	75%	-\$0.05	2,749
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	125	9	\$21.29	95%	75%	-\$0.05	88,395
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	126	9	\$21.29	95%	75%	-\$0.05	34,193
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	252	9	\$22.29	95%	75%	-\$0.07	7,986
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	188	9	\$22.29	95%	75%	-\$0.06	2,989
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	221	9	\$22.29	95%	75%	-\$0.06	96,137
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	225	9	\$22.29	95%	75%	-\$0.06	37,190
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	54	9	\$4.82	95%	75%	-\$0.07	1,442
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	40	9	\$4.82	95%	75%	-\$0.06	540
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	Existing	Per Building	48	9	\$4.82	95%	75%	-\$0.06	17,364
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Low-Flow Faucet Aerators	0.5 GPM	2.2 GPM (Federal Code)	New	Per Building	48	9	\$4.82	95%	75%	-\$0.06	6,718
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	8	10	\$61.89	95%	73%	\$1.25	558
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	8	10	\$61.89	95%	73%	\$1.25	280
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	10	10	\$61.89	95%	73%	\$1.02	9,238
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	10	10	\$61.89	95%	73%	\$1.02	3,521
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	228	10	\$1,274.18	95%	73%	\$0.88	5,680
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	228	10	\$1,274.18	95%	73%	\$0.88	2,856

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	275	10	\$1,274.18	95%	73%	\$0.71	94,106
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	275	10	\$1,274.18	95%	73%	\$0.71	35,869
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	1	10	\$14.11	95%	73%	\$1.69	495
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	1	10	\$14.11	95%	73%	\$1.69	249
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	2	10	\$14.11	95%	73%	\$1.39	8,200
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	2	10	\$14.11	95%	73%	\$1.39	3,126
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	1	10	\$10.92	95%	73%	\$1.69	421
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	1	10	\$10.92	95%	73%	\$1.69	212
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	1	10	\$10.92	95%	73%	\$1.39	6,970
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	1	10	\$10.92	95%	73%	\$1.39	2,657
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	36	10	\$347.80	95%	73%	\$1.55	1,833
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	36	10	\$347.80	95%	73%	\$1.55	922
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	44	10	\$347.80	95%	73%	\$1.27	30,380
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	44	10	\$347.80	95%	73%	\$1.27	11,579
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	38	10	\$364.05	95%	73%	\$1.55	1,175
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	38	10	\$364.05	95%	73%	\$1.55	591
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	Existing	Per Building	46	10	\$364.05	95%	73%	\$1.27	19,476
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Low-Flow Showerheads	1.5 GPM	2.5 GPM (Federal Code)	New	Per Building	46	10	\$364.05	95%	73%	\$1.27	7,424
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$44.74	24%	25%	\$6.75	28
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$44.74	24%	25%	\$6.75	14
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$44.74	24%	25%	\$6.75	380
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$44.74	24%	25%	\$6.75	145
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$43.22	24%	25%	\$6.76	1
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$43.22	24%	25%	\$6.76	1
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$43.22	24%	25%	\$6.76	19

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$43.22	24%	25%	\$6.76	7
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$60.60	11%	25%	\$6.76	4
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$60.60	11%	25%	\$6.76	2
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$60.60	11%	25%	\$6.76	52
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$60.60	11%	25%	\$6.76	20
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	2	12	\$100.47	24%	25%	\$6.75	5
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	2	12	\$100.47	24%	25%	\$6.75	3
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	2	12	\$100.47	24%	25%	\$6.75	69
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	2	12	\$100.47	24%	25%	\$6.75	26
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	2	12	\$66.59	8%	25%	\$6.76	16
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	2	12	\$66.59	8%	25%	\$6.76	8
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	2	12	\$66.59	8%	25%	\$6.76	223
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	2	12	\$66.59	8%	25%	\$6.76	85
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$44.71	5%	25%	\$6.75	8
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$44.71	5%	25%	\$6.75	4
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$44.71	5%	25%	\$6.75	109
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$44.71	5%	25%	\$6.75	42
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$46.35	46%	25%	\$6.75	20

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
						gal/cycle	gal/cycle									
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$46.35	46%	25%	\$6.75	10
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$46.35	46%	25%	\$6.75	275
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$46.35	46%	25%	\$6.75	105
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$42.00	35%	25%	\$6.76	6
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$42.00	35%	25%	\$6.76	3
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$42.00	35%	25%	\$6.76	84
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$42.00	35%	25%	\$6.76	32
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	2	12	\$94.22	35%	25%	\$6.76	8
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	2	12	\$94.22	35%	25%	\$6.76	4
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	2	12	\$94.22	35%	25%	\$6.76	116
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	2	12	\$94.22	35%	25%	\$6.76	44
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$41.61	3%	25%	\$6.76	0
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$41.61	3%	25%	\$6.76	0
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	Existing	Per Building	1	12	\$41.61	3%	25%	\$6.76	3
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Dishwasher Residential	RTF ENERGY STAR Dishwasher - 277 kWh/yr and 4.25 gal/cycle	RTF Market Standard 2014 Dishwasher - 289 kWh/yr and 5.0 gal/cycle	New	Per Building	1	12	\$41.61	3%	25%	\$6.76	1
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	43	20	\$671.49	10%	90%	\$1.82	4,364
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	24	20	\$381.68	10%	90%	\$1.89	1,268
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	400	20	\$1,868.27	10%	90%	\$0.47	103

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	84	20	\$406.30	10%	90%	\$0.49	10
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	295	20	\$992.53	10%	90%	\$0.31	16,730
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	284	20	\$975.72	10%	90%	\$0.32	7,794
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	158	20	\$1,021.72	10%	30%	\$0.69	1,119
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	112	20	\$751.16	10%	30%	\$0.72	393
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	181	20	\$904.95	10%	45%	\$0.51	30,726
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	88	20	\$454.83	10%	45%	\$0.53	6,913
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	93	20	\$700.62	10%	90%	\$0.83	26,097
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	46	20	\$363.38	10%	90%	\$0.86	6,758
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	329	20	\$3,123.69	10%	65%	\$1.07	18,343
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	275	20	\$2,685.09	10%	65%	\$1.10	7,714
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	689	20	\$3,269.56	10%	90%	\$0.48	32,983
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	575	20	\$2,810.63	10%	90%	\$0.50	13,708
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	Existing	Per Building	275	20	\$3,532.34	10%	90%	\$1.48	688
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Boiler Economizer	Economizer	No Economizer	New	Per Building	149	20	\$1,988.62	10%	90%	\$1.54	185
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	Existing	Per Building	36	9	\$215.46	75%	75%	\$1.02	6,002
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	New	Per Building	36	9	\$215.46	75%	75%	\$1.02	2,014
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	Existing	Per Building	3	9	\$16.34	85%	75%	\$1.02	3,488
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	New	Per Building	3	9	\$16.34	85%	75%	\$1.02	1,170
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	Existing	Per Building	9	9	\$52.45	85%	75%	\$1.02	4,879
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	New	Per Building	9	9	\$52.45	85%	75%	\$1.02	1,637
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	Existing	Per Building	9	9	\$52.45	25%	75%	\$1.02	15,400
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	New	Per Building	9	9	\$52.45	25%	75%	\$1.02	5,166
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	Existing	Per Building	268	9	\$1,615.35	10%	75%	\$1.02	77,717
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	New	Per Building	268	9	\$1,615.35	10%	75%	\$1.02	26,071
Gas	Energy Efficiency	School	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	Existing	Per Building	4	9	\$24.41	50%	75%	\$1.02	1,226
Gas	Energy Efficiency	School	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	New	Per Building	4	9	\$24.41	50%	75%	\$1.02	411
Gas	Energy Efficiency	University	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	Existing	Per Building	8	9	\$46.60	50%	75%	\$1.02	1,434
Gas	Energy Efficiency	University	Cooking	Retrofit	Broiler	High-Efficiency Broiler (Infrared)	Standard Broiler	New	Per Building	8	9	\$46.60	50%	75%	\$1.02	481

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	Existing	Per Building	10	8	\$55.95	45%	85%	\$1.00	1,159
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	New	Per Building	10	8	\$55.95	45%	85%	\$1.00	440
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	Existing	Per Building	0	8	\$4.25	45%	85%	\$10.53	60
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	New	Per Building	0	8	\$4.25	45%	85%	\$10.53	23
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	Existing	Per Building	1	8	\$13.62	35%	85%	\$4.69	147
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	New	Per Building	1	8	\$13.62	35%	85%	\$4.69	56
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	Existing	Per Building	0	8	\$13.62	20%	85%	\$13.85	308
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	New	Per Building	0	8	\$13.62	20%	85%	\$13.85	117
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	Existing	Per Building	69	8	\$419.47	65%	85%	\$1.11	147,945
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	New	Per Building	69	8	\$419.47	65%	85%	\$1.11	56,157
Gas	Energy Efficiency	School	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	Existing	Per Building	0	8	\$6.34	45%	85%	\$5.67	67
Gas	Energy Efficiency	School	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	New	Per Building	0	8	\$6.34	45%	85%	\$5.67	25
Gas	Energy Efficiency	University	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	Existing	Per Building	1	8	\$12.10	45%	85%	\$2.37	183
Gas	Energy Efficiency	University	Cooking	Retrofit	Fryers - Commercial Gas Cooking	Energy Star Commercial Fryer (50% efficient)	Non-Energy Star Fryer (35% efficient)	New	Per Building	1	8	\$12.10	45%	85%	\$2.37	70
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	Existing	Per Building	9	12	\$165.10	45%	35%	\$2.91	408
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	New	Per Building	9	12	\$165.10	45%	35%	\$2.91	155
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	Existing	Per Building	2	12	\$33.40	45%	35%	\$2.91	557
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	New	Per Building	2	12	\$33.40	45%	35%	\$2.91	212
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	Existing	Per Building	2	12	\$40.20	45%	35%	\$2.91	292
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	New	Per Building	2	12	\$40.20	45%	35%	\$2.91	111
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	Existing	Per Building	2	12	\$40.20	20%	35%	\$2.91	1,395
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	New	Per Building	2	12	\$40.20	20%	35%	\$2.91	529
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	Existing	Per Building	31	12	\$582.50	75%	35%	\$2.91	31,053

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	New	Per Building	31	12	\$582.50	75%	35%	\$2.91	11,787
Gas	Energy Efficiency	School	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	Existing	Per Building	1	12	\$13.61	65%	35%	\$2.91	131
Gas	Energy Efficiency	School	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	New	Per Building	1	12	\$13.61	65%	35%	\$2.91	50
Gas	Energy Efficiency	University	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	Existing	Per Building	1	12	\$25.97	65%	35%	\$2.91	153
Gas	Energy Efficiency	University	Cooking	Retrofit	Griddle	High-Efficiency Griddle (40% Efficient)	Standard Griddle (32% Efficient)	New	Per Building	1	12	\$25.97	65%	35%	\$2.91	58
Gas	Energy Efficiency	Dry Goods Retail	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	14	15	\$1,350.28	50%	95%	\$13.46	1,281
Gas	Energy Efficiency	Dry Goods Retail	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	17	15	\$1,350.28	50%	95%	\$11.24	15,942
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	22	15	\$1,350.28	50%	95%	\$8.67	6,056
Gas	Energy Efficiency	Grocery	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	176	15	\$1,437.36	50%	95%	\$1.06	831
Gas	Energy Efficiency	Grocery	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	211	15	\$1,437.36	50%	95%	\$0.87	10,352
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	76	15	\$1,437.36	50%	95%	\$2.53	47
Gas	Energy Efficiency	Hospital	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	310	15	\$3,451.77	50%	95%	\$1.48	6,555
Gas	Energy Efficiency	Hospital	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	371	15	\$3,451.77	50%	95%	\$1.22	81,579
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	259	15	\$3,451.77	50%	95%	\$1.76	37,213
Gas	Energy Efficiency	Hotel Motel	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	241	15	\$2,657.37	50%	95%	\$1.46	1,738
Gas	Energy Efficiency	Hotel Motel	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	289	15	\$2,657.37	50%	95%	\$1.21	21,666
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	102	15	\$2,657.37	50%	95%	\$3.56	5,643
Gas	Energy Efficiency	Office	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	24	15	\$1,609.04	50%	95%	\$9.27	2,671
Gas	Energy Efficiency	Office	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	29	15	\$1,609.04	50%	95%	\$7.74	33,224
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	80	15	\$1,609.04	50%	95%	\$2.72	66,170
Gas	Energy Efficiency	Other Commercial	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	17	15	\$1,285.50	50%	95%	\$10.76	1,848
Gas	Energy Efficiency	Other Commercial	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	20	15	\$1,285.50	50%	95%	\$8.98	23,236
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	42	15	\$1,285.50	50%	95%	\$4.18	32,263

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Restaurant	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	67	15	\$813.96	50%	95%	\$1.63	2,062
Gas	Energy Efficiency	Restaurant	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	80	15	\$813.96	50%	95%	\$1.35	26,093
Gas	Energy Efficiency	School	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	137	15	\$9,499.02	50%	95%	\$9.66	2,033
Gas	Energy Efficiency	School	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	164	15	\$9,499.02	50%	95%	\$8.06	25,363
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	250	15	\$9,499.02	50%	95%	\$5.22	51,063
Gas	Energy Efficiency	University	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	243	15	\$9,943.12	50%	95%	\$5.66	2,238
Gas	Energy Efficiency	University	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	291	15	\$9,943.12	50%	95%	\$4.72	27,882
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	523	15	\$9,943.12	50%	95%	\$2.56	65,446
Gas	Energy Efficiency	Warehouse	Water Heat GT 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	52	15	\$7,035.12	50%	95%	\$18.84	410
Gas	Energy Efficiency	Warehouse	Water Heat LE 55 Gal	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	62	15	\$7,035.12	50%	95%	\$15.73	5,096
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Integrated Space Heating/Water Heating	Integrated System	Separate Boiler And HW Heater	New	Per Building	136	15	\$7,035.12	50%	95%	\$7.15	883
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	Existing	Per Building	648	10	\$142.65	5%	85%	-\$0.05	8,204
Gas	Energy Efficiency	Grocery	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	New	Per Building	648	10	\$142.65	5%	85%	-\$0.05	2,623
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	Existing	Per Building	66	10	\$10.82	5%	85%	-\$0.06	5,679
Gas	Energy Efficiency	Hospital	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	New	Per Building	66	10	\$10.82	5%	85%	-\$0.06	1,816
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	Existing	Per Building	147	10	\$34.72	5%	85%	-\$0.04	5,491
Gas	Energy Efficiency	Hotel Motel	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	New	Per Building	147	10	\$34.72	5%	85%	-\$0.04	1,756
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	Existing	Per Building	50	10	\$34.72	5%	85%	\$0.03	20,205
Gas	Energy Efficiency	Other Commercial	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	New	Per Building	50	10	\$34.72	5%	85%	\$0.03	6,461
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	Existing	Per Building	589	10	\$1,069.51	35%	85%	\$0.23	676,847
Gas	Energy Efficiency	Restaurant	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	New	Per Building	589	10	\$1,069.51	35%	85%	\$0.23	216,424
Gas	Energy Efficiency	School	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	Existing	Per Building	122	10	\$16.16	5%	85%	-\$0.06	4,187
Gas	Energy Efficiency	School	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	New	Per Building	122	10	\$16.16	5%	85%	-\$0.06	1,339
Gas	Energy Efficiency	University	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	Existing	Per Building	287	10	\$30.85	5%	85%	-\$0.06	6,018
Gas	Energy Efficiency	University	Cooking	Retrofit	Oven - Conveyor	High-Efficiency Model (23% Efficient)	Standard Model (15% Efficient)	New	Per Building	287	10	\$30.85	5%	85%	-\$0.06	1,924
Gas	Energy Efficiency	Dry Goods Retail	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	95	20	\$2,340.39	75%	65%	\$2.96	51,539



Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Grocery	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	876	20	\$2,374.56	75%	65%	\$0.23	1,213
Gas	Energy Efficiency	Hospital	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	647	20	\$2,234.76	75%	65%	\$0.32	197,581
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	345	20	\$1,966.33	75%	65%	\$0.60	39,782
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	396	20	\$1,061.94	75%	65%	\$0.22	727,539
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	203	20	\$4,151.85	75%	65%	\$2.43	308,197
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	721	20	\$4,415.11	75%	65%	\$0.65	300,354
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	1509	20	\$1,924.92	75%	65%	\$0.05	389,521
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Pipe Insulation - Boiler	3" of Insulation, assuming R-12 (WA State Code)	No Insulation	Existing	Per Building	603	20	\$3,210.99	75%	65%	\$0.55	8,127
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	Existing	Per Building	1003	10	\$57,675.89	25%	98%	\$9.73	54,655
Gas	Energy Efficiency	Hotel Motel	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	New	Per Building	711	10	\$57,675.89	75%	98%	\$13.77	59,674
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	Existing	Per Building	1151	10	\$51,084.35	25%	98%	\$7.49	999,540
Gas	Energy Efficiency	Office	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	New	Per Building	557	10	\$51,084.35	75%	98%	\$15.58	699,707
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	Existing	Per Building	589	10	\$39,549.18	25%	98%	\$11.38	423,421
Gas	Energy Efficiency	Other Commercial	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	New	Per Building	294	10	\$39,549.18	75%	98%	\$22.88	341,156
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent	No Heat Recovery	Existing	Per Building	2094	10	\$176,323.42	25%	98%	\$14.30	412,645

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$/therm]	2035 Cumulative Technical Achievable Potential [therm]
						recovery effectiveness										
Gas	Energy Efficiency	School	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	New	Per Building	1749	10	\$176,323.42	75%	98%	\$17.14	539,952
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	Existing	Per Building	4383	10	\$184,562.83	25%	98%	\$7.10	535,148
Gas	Energy Efficiency	University	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	New	Per Building	3662	10	\$184,562.83	75%	98%	\$8.52	692,048
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	Existing	Per Building	1752	10	\$199,393.77	25%	98%	\$19.37	11,166
Gas	Energy Efficiency	Warehouse	Space Heat Boiler	Retrofit	Sensible And Total Heat Recovery Devices	Install Heat Recovery Devices - rotary air-to-air enthalpy heat recovery- 70% sensible and latent recovery effectiveness	No Heat Recovery	New	Per Building	951	10	\$199,393.77	75%	98%	\$35.77	9,341
Gas	Energy Efficiency	Hotel Motel	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	Existing	Per Building	1141	10	\$890.56	3%	35%	\$0.05	3,656
Gas	Energy Efficiency	Hotel Motel	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	New	Per Building	1141	10	\$890.56	3%	35%	\$0.05	1,393
Gas	Energy Efficiency	Other Commercial	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	Existing	Per Building	1141	10	\$890.56	3%	35%	\$0.05	23,254
Gas	Energy Efficiency	Other Commercial	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	New	Per Building	1141	10	\$890.56	3%	35%	\$0.05	8,864
Gas	Energy Efficiency	School	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	Existing	Per Building	4911	10	\$890.56	3%	35%	-\$0.05	9,180
Gas	Energy Efficiency	School	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	New	Per Building	4911	10	\$890.56	3%	35%	-\$0.05	3,499
Gas	Energy Efficiency	University	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	Existing	Per Building	4911	10	\$890.56	3%	35%	-\$0.05	5,623
Gas	Energy Efficiency	University	Pool Heat	Retrofit	Swimming Pool/Spa Covers	Automatic Plastic Or Foam Pool Covers (50-65% Energy Savings)	No Pool Covers	New	Per Building	4911	10	\$890.56	3%	35%	-\$0.05	2,143



Table 6 – Industrial Gas Measure Detail

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Chemical Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	3385	15	\$3,185.44	100%	100%	\$0.05	2,270
Gas	Energy Efficiency	Chemical Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	2256	2	\$2,496.13	100%	100%	\$0.56	1,512
Gas	Energy Efficiency	Chemical Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	13446	15	\$3,485.32	100%	100%	-\$0.04	9,016
Gas	Energy Efficiency	Chemical Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	19626	2	\$3,228.43	100%	100%	\$0.02	13,159
Gas	Energy Efficiency	Chemical Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	58546	15	\$3,787.94	100%	100%	-\$0.07	39,255
Gas	Energy Efficiency	Chemical Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	29584	15	\$10,709.38	100%	100%	-\$0.03	19,836
Gas	Energy Efficiency	Chemical Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	1621	2	\$866.28	100%	100%	\$0.23	1,087
Gas	Energy Efficiency	Chemical Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	40519	15	\$2,216.39	100%	100%	-\$0.07	27,167
Gas	Energy Efficiency	Chemical Mfg	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	8679	2	\$2,411.91	100%	100%	\$0.08	5,819
Gas	Energy Efficiency	Computer Electronic Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	79426	15	\$59,021.37	100%	100%	\$0.03	53,254
Gas	Energy Efficiency	Computer Electronic Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	98419	2	\$37,497.65	100%	100%	\$0.14	65,989
Gas	Energy Efficiency	Computer Electronic Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	99701	15	\$117,018.50	100%	100%	\$0.09	66,848
Gas	Energy Efficiency	Computer Electronic Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	75959	2	\$10,231.63	100%	100%	\$0.00	50,929
Gas	Energy Efficiency	Computer Electronic Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	5950	15	\$10,073.68	100%	100%	\$0.16	3,990
Gas	Energy Efficiency	Computer Electronic Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	32199	15	\$11,797.83	100%	100%	-\$0.03	21,589
Gas	Energy Efficiency	Computer Electronic Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	5745	2	\$3,350.58	100%	100%	\$0.26	3,852
Gas	Energy Efficiency	Computer Electronic Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	13123	15	\$6,465.47	100%	100%	-\$0.01	8,798
Gas	Energy Efficiency	Electrical Equipment Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	16099	15	\$9,702.83	100%	100%	\$0.01	10,794
Gas	Energy Efficiency	Electrical Equipment Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	7082	2	\$1,284.67	100%	100%	\$0.03	4,748
Gas	Energy Efficiency	Electrical Equipment Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	16278	15	\$18,424.86	100%	100%	\$0.08	10,914
Gas	Energy Efficiency	Electrical Equipment Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	17476	2	\$3,972.19	100%	100%	\$0.05	11,717
Gas	Energy Efficiency	Electrical Equipment Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	31221	15	\$16,531.76	100%	100%	\$0.00	20,934
Gas	Energy Efficiency	Electrical Equipment Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	73102	15	\$41,112.80	100%	100%	\$0.00	49,014
Gas	Energy Efficiency	Electrical Equipment Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	10724	2	\$4,609.04	100%	100%	\$0.17	7,190
Gas	Energy Efficiency	Electrical Equipment Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	26747	15	\$9,048.57	100%	100%	-\$0.03	17,934
Gas	Energy Efficiency	Fabricated Metal Products	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	72362	15	\$88,353.73	100%	100%	\$0.09	48,518
Gas	Energy Efficiency	Fabricated Metal Products	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	64781	2	\$44,835.27	100%	100%	\$0.32	43,435
Gas	Energy Efficiency	Fabricated Metal Products	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	91351	15	\$143,219.50	100%	100%	\$0.14	61,249

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Fabricated Metal Products	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	62520	2	\$7,002.21	100%	100%	-\$0.01	41,919
Gas	Energy Efficiency	Fabricated Metal Products	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	131107	15	\$62,118.73	100%	100%	-\$0.01	87,906
Gas	Energy Efficiency	Fabricated Metal Products	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	150161	15	\$136,631.38	100%	100%	\$0.05	100,681
Gas	Energy Efficiency	Fabricated Metal Products	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	77380	2	\$36,902.33	100%	100%	\$0.20	51,882
Gas	Energy Efficiency	Fabricated Metal Products	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	113836	15	\$73,982.18	100%	100%	\$0.01	76,326
Gas	Energy Efficiency	Fabricated Metal Products	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	1825	2	\$895.36	100%	100%	\$0.21	1,223
Gas	Energy Efficiency	Food Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	33404	15	\$19,531.35	100%	100%	\$0.00	22,397
Gas	Energy Efficiency	Food Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	9191	2	\$1,920.00	100%	100%	\$0.04	6,162
Gas	Energy Efficiency	Food Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	115654	15	\$94,570.56	100%	100%	\$0.04	77,545
Gas	Energy Efficiency	Food Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	80024	2	\$28,696.48	100%	100%	\$0.13	53,655
Gas	Energy Efficiency	Food Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	81234	15	\$25,791.68	100%	100%	-\$0.03	54,466
Gas	Energy Efficiency	Food Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	147801	15	\$74,595.41	100%	100%	-\$0.01	99,099
Gas	Energy Efficiency	Food Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	40462	2	\$14,089.00	100%	100%	\$0.12	27,130
Gas	Energy Efficiency	Food Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	59613	15	\$27,433.68	100%	100%	-\$0.01	39,969
Gas	Energy Efficiency	Food Mfg	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	34825	2	\$4,812.85	100%	100%	\$0.00	23,350
Gas	Energy Efficiency	Industrial Machinery	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	179940	15	\$147,713.12	100%	100%	\$0.04	120,648
Gas	Energy Efficiency	Industrial Machinery	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	182448	2	\$62,853.45	100%	100%	\$0.12	122,329
Gas	Energy Efficiency	Industrial Machinery	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	157411	15	\$162,448.49	100%	100%	\$0.07	105,542
Gas	Energy Efficiency	Industrial Machinery	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	126063	2	\$21,733.23	100%	100%	\$0.02	84,524
Gas	Energy Efficiency	Industrial Machinery	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	20876	15	\$22,808.68	100%	100%	\$0.08	13,997
Gas	Energy Efficiency	Industrial Machinery	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	132717	15	\$67,367.18	100%	100%	-\$0.01	88,985
Gas	Energy Efficiency	Industrial Machinery	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	97316	2	\$55,518.67	100%	100%	\$0.25	65,249
Gas	Energy Efficiency	Industrial Machinery	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	62286	15	\$22,659.55	100%	100%	-\$0.03	41,762
Gas	Energy Efficiency	Miscellaneous Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	633583	15	\$443,064.38	50%	100%	\$0.02	212,405
Gas	Energy Efficiency	Miscellaneous Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	767229	2	\$35,829.60	50%	100%	-\$0.05	257,209
Gas	Energy Efficiency	Miscellaneous Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	181368	15	\$107,152.29	50%	100%	\$0.01	60,803
Gas	Energy Efficiency	Miscellaneous Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	69247	2	\$14,569.64	50%	100%	\$0.04	23,215
Gas	Energy Efficiency	Miscellaneous Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	69298	15	\$72,527.40	50%	100%	\$0.07	23,232
Gas	Energy Efficiency	Miscellaneous Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	128808	15	\$59,277.23	50%	100%	-\$0.01	43,182

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Miscellaneous Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	56273	2	\$18,677.00	50%	100%	\$0.11	18,865
Gas	Energy Efficiency	Miscellaneous Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	186255	15	\$39,746.72	50%	100%	-\$0.05	62,441
Gas	Energy Efficiency	Nonmetallic Mineral Products	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	6641	15	\$7,695.26	100%	100%	\$0.09	4,453
Gas	Energy Efficiency	Nonmetallic Mineral Products	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	1186	2	\$547.21	100%	100%	\$0.19	795
Gas	Energy Efficiency	Nonmetallic Mineral Products	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	3450	2	\$231.13	100%	100%	-\$0.04	2,313
Gas	Energy Efficiency	Nonmetallic Mineral Products	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	273992	15	\$54,853.26	100%	100%	-\$0.05	183,708
Gas	Energy Efficiency	Nonmetallic Mineral Products	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	162105	15	\$146,267.13	100%	100%	\$0.05	108,689
Gas	Energy Efficiency	Nonmetallic Mineral Products	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	38185	2	\$11,524.30	100%	100%	\$0.10	25,603
Gas	Energy Efficiency	Nonmetallic Mineral Products	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	58297	15	\$23,884.41	100%	100%	-\$0.02	39,088
Gas	Energy Efficiency	Nonmetallic Mineral Products	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	3323	2	\$6,480.01	100%	100%	\$1.05	2,228
Gas	Energy Efficiency	Paper Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	2434	15	\$1,612.29	100%	100%	\$0.02	1,632
Gas	Energy Efficiency	Paper Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	2926	2	\$401.18	100%	100%	\$0.00	1,962
Gas	Energy Efficiency	Paper Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	21355	15	\$10,149.88	100%	100%	-\$0.01	14,318
Gas	Energy Efficiency	Paper Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	11322	2	\$1,377.84	100%	100%	-\$0.01	7,591
Gas	Energy Efficiency	Paper Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	7651	15	\$3,709.28	100%	100%	-\$0.01	5,130
Gas	Energy Efficiency	Paper Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	12734	15	\$8,642.25	100%	100%	\$0.02	8,538
Gas	Energy Efficiency	Paper Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	3796	2	\$917.76	100%	100%	\$0.06	2,545
Gas	Energy Efficiency	Paper Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	4614	15	\$820.41	100%	100%	-\$0.05	3,094
Gas	Energy Efficiency	Paper Mfg	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	3669	2	\$2,439.36	100%	100%	\$0.31	2,460
Gas	Energy Efficiency	Petroleum Coal Products	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	5697	15	\$5,226.81	100%	100%	\$0.05	3,820
Gas	Energy Efficiency	Petroleum Coal Products	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	3764	2	\$644.46	100%	100%	\$0.02	2,524
Gas	Energy Efficiency	Petroleum Coal Products	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	2236	15	\$1,715.94	100%	100%	\$0.03	1,499
Gas	Energy Efficiency	Petroleum Coal Products	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	5625	15	\$4,207.72	100%	100%	\$0.03	3,772
Gas	Energy Efficiency	Petroleum Coal Products	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	2671	2	\$511.98	100%	100%	\$0.03	1,791
Gas	Energy Efficiency	Petroleum Coal Products	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	3540	15	\$175.56	100%	100%	-\$0.07	2,373
Gas	Energy Efficiency	Plastics Rubber Products	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	21235	15	\$13,405.63	100%	100%	\$0.01	14,238
Gas	Energy Efficiency	Plastics Rubber Products	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	28549	2	\$889,660.23	100%	100%	\$17.98	19,142
Gas	Energy Efficiency	Plastics Rubber Products	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	66561	15	\$20,500.64	100%	100%	-\$0.03	44,628
Gas	Energy Efficiency	Plastics Rubber Products	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	34207	2	\$7,628.08	100%	100%	\$0.05	22,935

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Plastics Rubber Products	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	30414	15	\$19,154.43	100%	100%	\$0.01	20,392
Gas	Energy Efficiency	Plastics Rubber Products	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	38921	15	\$24,457.95	100%	100%	\$0.01	26,096
Gas	Energy Efficiency	Plastics Rubber Products	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	25010	2	\$15,540.98	100%	100%	\$0.28	16,769
Gas	Energy Efficiency	Plastics Rubber Products	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	20039	15	\$3,176.11	100%	100%	-\$0.06	13,436
Gas	Energy Efficiency	Plastics Rubber Products	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	9501	2	\$1,817.54	100%	100%	\$0.03	6,370
Gas	Energy Efficiency	Primary Metal Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	2772	15	\$1,282.15	100%	100%	-\$0.01	1,858
Gas	Energy Efficiency	Primary Metal Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	5335	15	\$5,245.22	100%	100%	\$0.06	3,577
Gas	Energy Efficiency	Primary Metal Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	4080	2	\$594.50	100%	100%	\$0.01	2,736
Gas	Energy Efficiency	Primary Metal Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	18613	15	\$8,074.37	100%	100%	-\$0.02	12,480
Gas	Energy Efficiency	Primary Metal Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	19996	15	\$14,858.92	100%	100%	\$0.03	13,407
Gas	Energy Efficiency	Primary Metal Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	3937	2	\$1,919.85	100%	100%	\$0.21	2,640
Gas	Energy Efficiency	Primary Metal Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	10043	15	\$3,893.85	100%	100%	-\$0.02	6,734
Gas	Energy Efficiency	Printing Related Support	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	66672	15	\$29,322.46	100%	100%	-\$0.02	44,703
Gas	Energy Efficiency	Printing Related Support	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	118014	2	\$39,015.59	100%	100%	\$0.11	79,127
Gas	Energy Efficiency	Printing Related Support	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	33724	15	\$35,163.90	100%	100%	\$0.07	22,611
Gas	Energy Efficiency	Printing Related Support	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	28208	2	\$3,652.93	100%	100%	\$0.00	18,913
Gas	Energy Efficiency	Printing Related Support	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	222004	15	\$387,508.38	100%	100%	\$0.17	148,851
Gas	Energy Efficiency	Printing Related Support	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	63761	15	\$28,303.67	100%	100%	-\$0.02	42,751
Gas	Energy Efficiency	Printing Related Support	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	59693	2	\$35,923.04	100%	100%	\$0.27	40,023
Gas	Energy Efficiency	Printing Related Support	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	235931	15	\$85,406.91	100%	100%	-\$0.03	158,189
Gas	Energy Efficiency	Transportation Equipment Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	73322	15	\$72,457.26	100%	100%	\$0.06	49,162
Gas	Energy Efficiency	Transportation Equipment Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	137141	2	\$25,357.42	100%	100%	\$0.03	91,952
Gas	Energy Efficiency	Transportation Equipment Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	91263	15	\$90,569.66	100%	100%	\$0.06	61,191
Gas	Energy Efficiency	Transportation Equipment Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	30181	2	\$21,434.64	100%	100%	\$0.33	20,236
Gas	Energy Efficiency	Transportation Equipment Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	133491	15	\$32,812.15	100%	100%	-\$0.04	89,504
Gas	Energy Efficiency	Transportation Equipment Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	172904	15	\$55,432.95	100%	100%	-\$0.03	115,930
Gas	Energy Efficiency	Transportation Equipment Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	30296	2	\$22,230.94	100%	100%	\$0.35	20,313
Gas	Energy Efficiency	Transportation Equipment Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	47048	15	\$389,549.41	100%	100%	\$1.08	31,545
Gas	Energy Efficiency	Transportation Equipment Mfg	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	10484	2	\$4,403.25	100%	100%	\$0.17	7,029

Fuel Type	Resource Type	Segment	End Use	Measure Type	Measure Name	Measure Description	Baseline Description	Construction Vintage	Unit Description	Savings per Unit [therm]	Measure Life	Incremental Cost per Unit	Percent of Installations Technically Feasible	Percent of Installations Incomplete	TRC Levelized Cost [\$ /therm]	2035 Cumulative Technical Achievable Potential [therm]
Gas	Energy Efficiency	Wood Product Mfg	Hvac	Retrofit	HVAC Improvements	HVAC Improvements		Existing	Per Industry	9690	15	\$10,600.43	100%	100%	\$0.08	6,497
Gas	Energy Efficiency	Wood Product Mfg	Hvac	Retrofit	HVAC O&M	HVAC O&M		Existing	Per Industry	4461	2	\$777.59	100%	100%	\$0.02	2,991
Gas	Energy Efficiency	Wood Product Mfg	Indirect Boiler	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	47860	15	\$22,858.00	100%	100%	-\$0.01	32,090
Gas	Energy Efficiency	Wood Product Mfg	Indirect Boiler	Retrofit	Boiler O&M	Boiler O&M		Existing	Per Industry	14208	2	\$1,125.27	100%	100%	-\$0.03	9,526
Gas	Energy Efficiency	Wood Product Mfg	Process Heat	Retrofit	Boiler Improvements	Boiler Improvements		Existing	Per Industry	86358	15	\$29,370.42	100%	100%	-\$0.03	57,902
Gas	Energy Efficiency	Wood Product Mfg	Process Heat	Retrofit	Heat Improvements	Heat Improvements		Existing	Per Industry	60738	15	\$134,055.60	100%	100%	\$0.23	40,724
Gas	Energy Efficiency	Wood Product Mfg	Process Heat	Retrofit	Heat O&M	Heat O&M		Existing	Per Industry	43936	2	\$4,890.07	100%	100%	-\$0.01	29,459
Gas	Energy Efficiency	Wood Product Mfg	Process Heat	Retrofit	Steam Distribution	Steam Distribution		Existing	Per Industry	11118	15	\$880.57	100%	100%	-\$0.07	7,455
Gas	Energy Efficiency	Wood Product Mfg	Process Other	Retrofit	Other O&M	Other O&M		Existing	Per Industry	3402	2	\$532.82	100%	100%	\$0.01	2,281