

Energy Efficiency Potential in New Jersey

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New Jersey Board of Public Utilities



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EXECUTIVE SUMMARY

New Jersey's Clean Energy Act of 2018 (the Act) specifies that:

*No later than one year after the date of enactment..., the board shall **conduct and complete a study to determine the energy savings targets** for full economic, cost-effective potential for electricity usage reduction and natural gas usage reduction as well as the potential for peak demand reduction by the customers of each electric public utility and gas public utility and the timeframe for achieving the reductions. [Emphasis added.]*

The Act also has called on the New Jersey Board of Public Utilities (BPU or Board) to require each electric and natural gas public utility to reduce energy use, and has specified minimums for that reduction within the first five years of implementation. The Act directs that:

*Each electric public utility shall be required to achieve **annual reductions in the use of electricity of two percent** of the average annual usage in the prior three years within five years of implementation of its electric energy efficiency program. Each natural gas public utility shall be required to achieve **annual reductions in the use of natural gas of 0.75 percent** of the average annual usage in the prior three years within five years of implementation of its gas energy efficiency program. [Emphases added.]*

The Act also directed the BPU to:

... adopt quantitative performance indicators...for each electric public utility and gas public utility, which shall establish reasonably achievable targets for energy usage reductions and peak demand reductions...

The Act specifies that incentives and penalties shall be established and used:

If an electric public utility or gas public utility achieves the performance targets established in the quantitative performance indicators, the public utility shall receive an incentive as determined by the board.... The incentive shall scale in a linear fashion...

If an electric public utility or gas public utility fails to achieve the reductions in its performance target established in the quantitative performance indicators, the public utility shall be assessed a penalty.... The penalty shall scale in a linear fashion...

The Board contracted with Optimal Energy, Inc., to develop the necessary analyses and provide recommendations.

Energy Efficiency Potential

The analysis estimated the **maximum achievable potential for energy efficiency**, defined as the maximum level of program activity and savings possible, given market barriers to adoption of energy-efficient technologies, with no limits on incentive payments, and including administrative costs necessary to implement programs. The analysis period was ten years, 2020 through 2029.

The analysis estimates the following as maximum achievable potential for 2020-2029:

- Average annual savings of 2.8 percent for electric, and 1.4 percent for gas
- Electric cumulative annual load reduction of 21 percent (16.9 million MWh) in 2029
- Additional electric reduction potential of 4.2 million MWh from combined heat and power by 2029
- Electric peak load reduction of 20 percent or 4,162 MW in 2029
- Gas cumulative annual load reduction of 11 percent or 57,005 BBtu in 2029
- Gas peak-day load reduction of 722 BBtu in 2029

Table ES-1 shows the costs and benefits if the maximum achievable potential is captured. It shows that under this hypothetical scenario, the portfolio of statewide programs would produce net present value benefits for New Jersey of \$14 billion. The benefit-cost ratio shows that for every dollar of investment, New Jersey would gain \$2.57 in economic benefits. The \$8.9 billion of costs does not reflect hypothetical program budgets, but could be substantially higher because it considers all costs to society, not just ratepayer costs.

Table ES-1. Cumulative maximum achievable costs, benefits, and benefit-cost ratio (societal cost test), by sector, 2029

Sector	Costs (million \$)	Benefits (million \$)	Net benefits (million \$)	Benefit cost ratio
Residential	\$2,967	\$6,601	\$3,634	2.22
Commercial & Industrial	\$5,936	\$16,284	\$10,349	2.74
Total	\$8,903	\$22,885	\$13,982	2.57

Savings Targets and Quantitative Performance Indicators

The Act directs that quantitative performance indicators (QPIs) be established for electric and gas energy and peak demand reductions, informed by potential analysis results. Optimal Energy has crafted realistic and achievable five-year targets for electric and gas sales reductions from the results (Table ES-2). We estimate that the maximum achievable potential exceeds these values, but that New Jersey administrators will need time to ramp up to those levels.

Table ES-2. Net electric and gas savings targets, 2020 - 2024

Year	Net savings targets (% of load)	Net annual incremental savings targets (GWh)	Net savings targets (% of load)	Net annual incremental savings targets (BBtus)
2020	0.75%	568	0.25%	1,168
2021	1.10%	833	0.50%	2,335
2022	1.45%	1,100	0.75%	3,511
2023	1.80%	1,369	0.95%	4,473
2024	2.15%	1,645	1.10%	5,226

Performance Incentives and Penalties

The Act requires that incentives and penalties be designed and used, and that each be scaled linearly. The figures illustrate how the performance incentive would work *as if it were simply a single metric*. In actuality, each metric would have its own graph with actual values based on actual metric targets. We recommend the total amount of performance incentive or penalty funds be based on a percentage of the planned and approved program budgets, as shown in the Figure ES-1 and Figure ES-2. It is important to note that this value would be fixed for the entire plan period regardless of actual levels of spending, and that all awards or penalties would be based on actual performance outcomes. We also recommend flexibility to achieve the overall targets during the entire plan period, rather than separately for each year. Optimal Energy recommends the performance incentive structure shown in Figure ES-1.

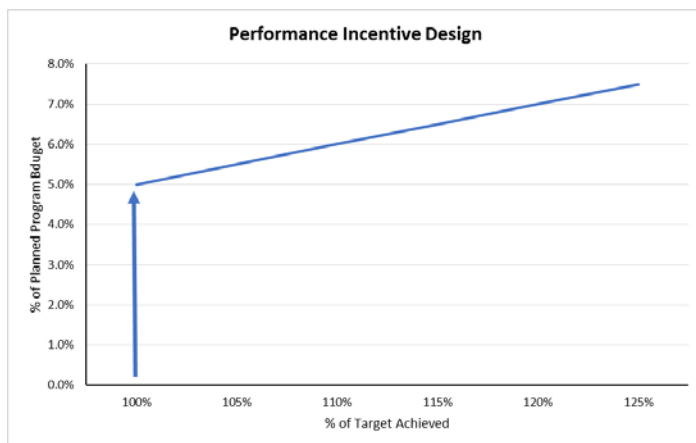


Figure ES-1. Performance incentive design.

The Act also specifies that utilities shall be penalized for performance that does not reach 100 percent of specified targets, and that penalties also must be scaled linearly. Optimal Energy recommends the penalty structure shown in Figure ES-2.

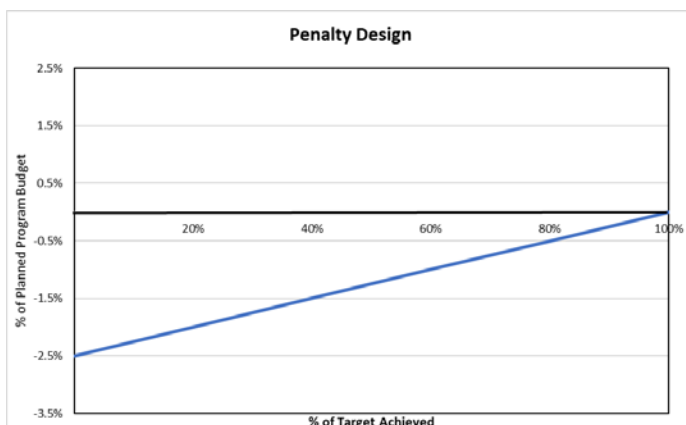


Figure ES-2. Performance penalty design.

The incentive and penalty structures are balanced to provide both upside and downside risks with a net variation of 2.5 percent of planned program budget.

Optimal Energy recommends a weighted set of QPIs be the basis of the performance incentive structure. This is similar in structure to many leading jurisdictions. Multiple PI metrics can help to avoid programs dedicated to a single objective, such as annual energy savings, at the expense of long-term or lifetime savings and other important policy goals of the State.

Metric	Weighting of PI \$
Annual energy savings	10%
Annual demand savings	5%
Lifetime energy savings	20%
Lifetime of persisting demand savings	10%
Utility cost test NPV of net benefits	35%
Low-income lifetime savings	7%
Small business lifetime savings	7%
Optional additional metric for key policy objective	6%

Stakeholder Input

The Act directs the BPU to include stakeholders in the process. The Board conducted stakeholder meetings to identify the most important model inputs and results. The meetings and the topics they addressed were:

- February 28, 2019: Data Sources and Key Global Inputs
- March 15, 2019: Measure Characterization / Key Model Inputs
- April 23, 2019: Results of the New Jersey Potential Study
- May 3, 2019: Quantitative Performance Indicators, Performance Incentives

This report draft was provided to stakeholders for comment before the report was finalized.

Conclusion

The ten-year potential analysis supports that the targets provided in the Act are reasonable minimum targets for electric and gas savings. The Board's decisions about QPIs and performance incentives can set the stage for higher levels of energy efficiency performance in New Jersey over the coming five-year period.

SECTION 1: ENERGY EFFICIENCY POTENTIAL STUDY

STUDY OVERVIEW AND SCOPE

New Jersey's Clean Energy Act of 2018 (the Act) specifies that:

No later than one year after the date of enactment of P.L.2018, c.17 (C.48:3-87.8 et al.), the board shall conduct and complete a study to determine the energy savings targets for full economic, cost-effective potential for electricity usage reduction and natural gas usage reduction as well as the potential for peak demand reduction by the customers of each electric public utility and gas public utility and the timeframe for achieving the reductions.

The Act also called on the New Jersey Board of Public Utilities (BPU or "board") to require each electric and natural gas public utility to reduce energy use, and specified minimums for that reduction within the first five years. The Act directs that:

Each electric public utility shall be required to achieve annual reductions in the use of electricity of two percent of the average annual usage in the prior three years within five years of implementation of its electric energy efficiency program. Each natural gas public utility shall be required to achieve annual reductions in the use of natural gas of 0.75 percent of the average annual usage in the prior three years within five years of implementation of its gas energy efficiency program.

The Act also directed the BPU to:

... adopt quantitative performance indicators pursuant to the "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.) for each electric public utility and gas public utility, which shall establish reasonably achievable targets for energy usage reductions and peak demand reductions ...

Subsequent to the Act, the BPU issued a Request for Quotation on November 1, 2018, and entered into contract with Optimal Energy, Inc., on January 24, 2019, to perform the potential study, complete a literature review, and make recommendations about quantitative performance indicators and performance incentives. The study involved four stakeholder meetings to obtain comment on methods and results.

This document provides the information that the Act called for, to inform the BPU's establishment of spending and savings targets for future years. The study looked at savings opportunities from electric and gas energy efficiency and electric demand response, over a ten-year horizon. In the results, we develop a single set of multi-fuel potential scenarios. Often, maximum results are most readily achievable when electric and gas programs operate together to provide services in a one-stop shop manner, avoiding the potential for ballooning costs with duplicative marketing, outreach, energy auditing, etc. Our assumption in maximum achievable scenario modeling is that any of those potential program barriers are removed and efficiency programs are providing all cost-effective services in a coordinated and integrated way. Therefore, although we present results for each separate utility by fuel, the maximum achievable scenarios assume effective delivery of dual-fuel services, where appropriate.

This study evaluated energy efficiency potential for two separate scenarios for efficiency:

- **Economic electric and gas efficiency.** Everything that is cost effective and technically feasible, assuming no market barriers and 100 percent adoption of all efficiency opportunities. A measure is considered to be cost-effective if the net present value (NPV) of the benefits over its effective useful life is equal to or greater than the NPV of the measure cost, based on a societal cost test (SCT), as defined in the most recent avoided cost assumptions estimated by the Rutgers Center for Green Building.¹
- **Maximum achievable electric and gas efficiency.** The maximum level of program activity and savings that is possible, given the market barriers to adoption of energy-efficient technologies, with no limits on incentive payments, but including administrative costs necessary to implement programs.

Additionally, the study examines electric demand response (DR), which uses a slightly different scenario definition from that used in the efficiency portions, as well as different methods and data sources. DR results are not included in the base efficiency potential, and a separate section provides the methods, data, and results for DR. Additionally, while still an efficiency measure, we have analyzed combined heat and power (CHP) separately from all other efficiency, and provide its methods, data sources, and results in a separate section. We have kept CHP as a stand-alone analysis, because the cost-effective achievable potential for CHP is quite large. However, it is difficult to consider for setting savings targets, because it can come from a few very large systems that cannot be assumed to be captured in any given program year.

SUMMARY OF STUDY PROCESS AND TIMELINE

The study began in late January, and involved a kick-off meeting on January 25, 2019. That meeting involved staff of the New Jersey Board of Public Utilities and Optimal Energy. The parties agreed to key dates for deliverables, and to a schedule of weekly project meetings and monthly progress reports.

The kick-off meeting also contained discussion of potential data sources, methods for outreach to utilities, a provisional schedule, and the stakeholder engagement process. Optimal had created a draft of the issues for stakeholder engagement, and target dates for holding each session. The topics and schedule tied closely to the need for critical input and feedback. Four topical stakeholder meetings resulted:

¹ Rutgers University Center for Green Building, “Energy Efficiency Cost Benefit Analysis Avoided Cost Assumption: Technical Memo,” May 1, 2019, Update. Rutgers University Center for Green Building, “Cost-Benefit Analysis of the NJCEP Energy Efficiency Programs: FY2017 Retrospective and FY2019 Summary Reports with Avoided Costs Commentary,” May 2019. Note the one divergence from the cost-effectiveness approach defined by the Rutgers assumptions is the inclusion of transmission and distribution capacity costs. Because the Act requires peak demand targets for gas, which have not previously existed in New Jersey, avoided capacity costs had not previously been developed.

February 28, 2019: Data Sources and Key Global Inputs

March 15, 2019: Measure Characterization / Key Model Inputs

April 23, 2019: Results of the New Jersey Potential Study

May 3, 2019: Quantitative Performance Indicators, Performance Incentives

A draft of the Literature and Information Review was delivered on March 25, 2019; a revised draft is contained in this report as Section 2.

Weekly check-ins between the BPU and Optimal ensured that the project tracked to necessary deliverables. Each meeting was documented by Optimal with notes. Other than confirming stakeholder meetings, which had not been scheduled until after the kick-off meeting, there were no significant changes to the project timeline.

ENERGY EFFICIENCY POTENTIAL

This high-level overview of the efficiency potential results also offers a review of methods and data sources. It concludes with detailed results from our analysis of the energy efficiency potential.

High-Level Results of Efficiency Potential

Table 1 and Table 2 show total cumulative potential at the end of the 10-year period for both the economic and maximum achievable scenarios, by sector and total. Overall, we find substantial efficiency potential for both electric and natural gas energy reductions and for demand.

For electric energy, if the entire potential were to be captured, the baseline forecasted energy use would drop by 34 percent for the economic scenario, and 21 percent for the maximum achievable scenario. Similarly for gas, these figures would respectively be 17 percent and 11 percent. Note that these 2029 cumulative figures are less than the sum of the annual incremental potential for each year, because some measures have lives shorter than 10 years, and those savings will drop off during the study period.

For the maximum achievable potential scenario, we assume well-designed and aggressively marketed and delivered programs to target all significant market segments. We further assume there is a consistent set of efficiency programs that address both electricity and gas. We believe New Jersey would not succeed in capturing all cost-effective achievable potential without an approach that sends consistent messages to the entire state market, and ensures good customer service and comprehensiveness by addressing both fuels. There were not sufficient forecast data at the sector level to be able to estimate with any level of confidence the percent of load that would be represented by each sector for the estimated MW and peak gas load reductions in 2029.

Table 1. Electric cumulative potential, 2020 - 2029

Year	Scenario	Res savings (MWh)	Res savings (% of sales)	C&I savings (MWh)	C&I savings (% of sales)	Total savings (MWh)	Total savings (% of sales)
Cumulative energy, 2029	Economic Potential	7,575,463	23%	20,069,796	42%	27,645,258	34%
	Max Achievable Potential	4,110,030	13%	12,749,878	27%	16,859,908	21%
		(MW)	(% of load)	(MW)	(% of load)	(MW)	(% of load)
Cumulative peak demand reduction, 2029	Economic Potential	2,798	Not Available	4,100	Not Available	6,898	33%
	Max Achievable Potential	1,650	Not Available	2,512	Not Available	4,162	20%

Table 2. Gas cumulative potential, 2020 - 2029²

Year	Scenario	Res savings (BBtu)	Res savings (% of sales)	C&I savings (BBtu)	C&I savings (% of sales)	Total savings (BBtu)	Total savings (% of sales)
Cumulative energy, 2029	Economic Potential	25,161	9%	59,483	26%	84,644	17%
	Max Achievable Potential	21,264	8%	35,741	16%	57,005	11%
		(Peak BBtu)	(% of load)	(Peak BBtu)	(% of load)	(Peak BBtu)	(% of load)
Cumulative peak demand reduction, 2029	Economic Potential	318	Not available	753	Not available	1,071	Not available
	Max Achievable Potential	269	Not available	452	Not available	722	Not available

Table 3 shows the economic costs and benefits that would benefit the New Jersey economy and all utility customers if the maximum achievable potential is captured. It shows that under this hypothetical scenario, the entire portfolio of statewide programs would produce net present

² The gas potential figures are the net total impacts, and include a small amount of negative gas savings resulting from some electric efficiency measures (such as interior lighting and waste heat impacts). Assuming gas utilities would not count these negative savings toward their savings goals, the full efficiency potential they can count would be higher by 2,417 BBtu (0.5 percent of load). The average annual incremental negative impacts total 0.1 percent of load each year. Combined heat and power, which has much larger negative gas impacts, is kept completely separate and reported only in the CHP section.

value benefits for New Jersey of \$14 billion. The benefit-cost ratio would be 2.57. In other words, for every dollar of investment in efficiency, New Jersey would gain \$2.57 in benefits. It is important to note the \$8.9 billion of costs does not reflect hypothetical program budgets, but is substantially higher, because it considers all costs to society, not just ratepayer costs.

These numbers are based on the SCT, the use of which is implied by the Clean Energy Act of 2018. All assumptions are consistent with the latest draft of the Rutgers Energy Efficiency Benefit-Cost Analysis Avoided Cost Assumptions. In brief, the societal benefits include the avoided-cost benefits that derive from not using the electricity and gas saved, as well as a societal value of carbon reductions derived from the carbon savings.³ The benefits also include all other readily quantifiable benefits associated with the measures—including savings in operations and maintenance (O&M) costs and unregulated fossil fuel and water avoided-cost benefits.⁴ More details on the cost-effectiveness screening are provided in the discussion of methods.

Table 3. Cumulative maximum achievable costs, benefits, and benefit cost ratio (societal cost test), 2029

Sector / program	Costs (million \$)	Benefits (million \$)	Net benefits (million \$)	Benefit cost ratio
Residential	\$2,967	\$6,601	\$3,634	2.22
New Construction	\$273	\$546	\$273	2.00
Equipment Replacement	\$1,820	\$3,793	\$1,972	2.08
Retrofit	\$874	\$2,262	\$1,389	2.59
Commercial & Industrial	\$5,936	\$16,284	\$10,349	2.74
New Construction	\$622	\$1,699	\$1,077	2.73
Equipment Replacement	\$1,476	\$4,333	\$2,856	2.93
Retrofit	\$3,837	\$10,252	\$6,415	2.67
Total	\$8,903	\$22,885	\$13,982	2.57

Figure 1 and Figure 2 provide a graphic representation of the respective baseline forecasts for electricity and gas, the cumulative savings by year for each potential scenario, and the resulting forecast if all potential were captured. Percent of load for peak demand savings for the entire system can be estimated, but sector-level peak-demand forecasts were not available.

³ Rutgers University Center for Green Building, “Energy Efficiency Cost Benefit Analysis Avoided Cost Assumption: Technical Memo,” May 1, 2019, Update.

⁴ As examples: When LED lighting is installed, light bulbs need to be replaced much less frequently. There is a maintenance cost savings for many commercial and industrial facilities. A faucet aerator will reduce the flow of water and therefore the energy costs related to hot water, and will have additional benefit in reducing volumetric charges for water and sewer.

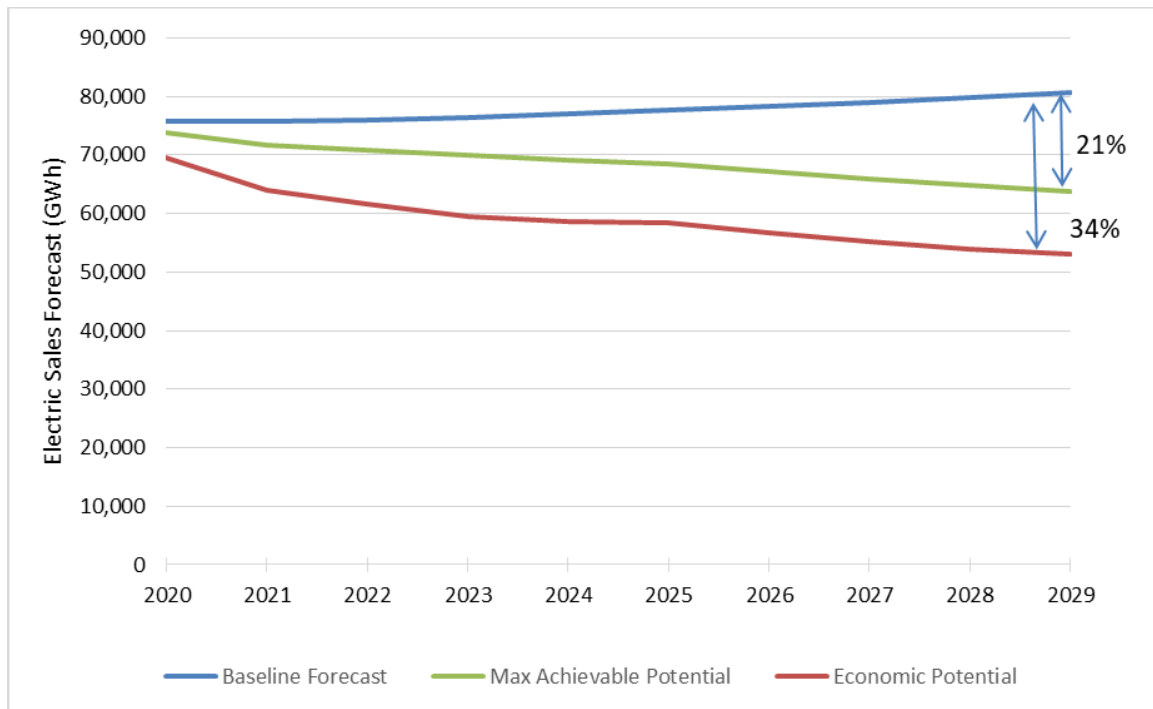


Figure 1. Baseline, economic potential, and maximum achievable potential for electric efficiency, 2020 – 2029.

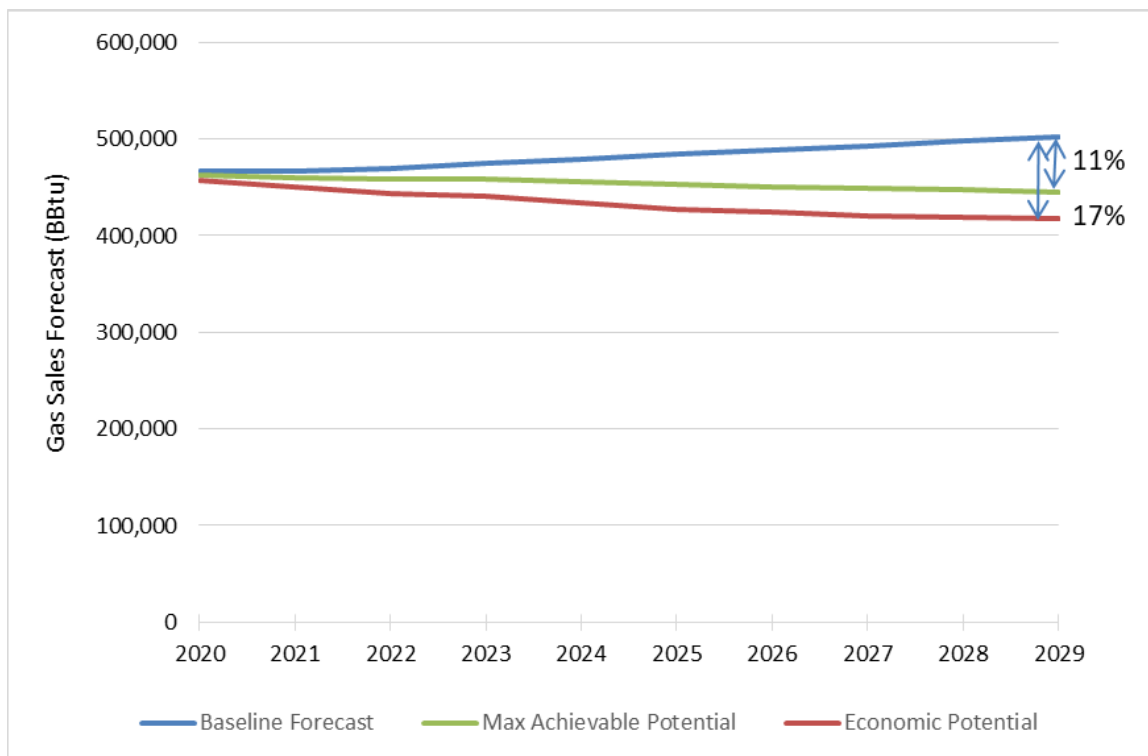


Figure 2. Baseline, economic potential, and maximum achievable potential for natural gas efficiency, 2020 – 2029.

Table 4 and Table 5 show the electric and gas annual incremental energy savings potential by scenario and sector, as a percent of the baseline forecasted load.⁵ The average annual incremental savings for maximum achievable is 2.8 percent of load for electricity and 1.4 percent of load for gas. As can be seen, we estimate that all cost-effective achievable potential well exceeds the minimum efficiency targets set in the Act.

The estimated potential is dependent on many factors, some of which can drive it up in a given year and others which may drive it down. There are many factors built into the analysis, such as technology adoption curves and changes in codes and standards. As an example of the latter, both the economic and maximum achievable potential for electric efficiency have lower values in 2022 than in 2021. This is at least partially due to the effects of changes in lighting standards as a result of the Energy Independence and Security Act (EISA). After that change, estimated levels of reduction then generally rise again as penetration rates of more complex measures increase as the efficiency market matures.

Table 4. Economic and maximum achievable percent of forecast potential for electric efficiency, 2020 - 2029

Year	Economic Potential			Max Achievable Potential		
	Total	Res	C&I	Total	Res	C&I
2020	8.2%	10.1%	6.8%	2.5%	3.1%	2.1%
2021	7.8%	9.9%	6.4%	3.1%	3.8%	2.7%
2022	4.9%	4.6%	5.0%	2.2%	2.0%	2.4%
2023	4.7%	4.5%	4.8%	2.5%	2.2%	2.7%
2024	4.6%	4.4%	4.7%	2.8%	2.4%	3.0%
2025	4.4%	4.3%	4.5%	2.9%	2.5%	3.2%
2026	4.3%	4.2%	4.3%	2.9%	2.5%	3.2%
2027	4.2%	4.2%	4.3%	3.0%	2.5%	3.4%
2028	4.2%	4.1%	4.3%	3.1%	2.5%	3.5%
2029	4.2%	4.1%	4.3%	3.1%	2.4%	3.5%
Average	5.2%	5.4%	5.0%	2.8%	2.6%	3.0%

Table 5. Economic and maximum achievable percent of forecast potential for gas efficiency, 2020 – 2029

Year	Economic Potential			Max Achievable Potential		
	Total	Res	C&I	Total	Res	C&I
2020	2.1%	1.2%	3.2%	0.8%	0.7%	1.0%
2021	2.0%	1.0%	3.1%	0.9%	0.7%	1.2%
2022	2.4%	2.0%	3.0%	1.3%	1.2%	1.4%
2023	2.4%	1.9%	2.9%	1.4%	1.3%	1.6%

⁵ Note that each year's potential is shown as a percentage of the baseline forecast for that same year. These percentages will differ slightly than the reduction targets defined in the Act, which provides a minimum percentage based on the average of the prior three years of actual loads.

	Economic Potential			Max Achievable Potential		
2024	2.3%	1.8%	2.8%	1.6%	1.4%	1.8%
2025	2.2%	1.7%	2.7%	1.6%	1.4%	1.8%
2026	2.1%	1.7%	2.6%	1.6%	1.4%	1.9%
2027	2.0%	1.6%	2.5%	1.6%	1.4%	1.9%
2028	2.0%	1.5%	2.5%	1.7%	1.4%	1.9%
2029	1.9%	1.5%	2.4%	1.7%	1.5%	1.9%
Average	2.1%	1.6%	2.8%	1.4%	1.2%	1.6%

Detailed Results: Maximum Achievable Efficiency Potential

This subsection offers detailed efficiency potential results for the maximum achievable scenario only. Economic potential is a hypothetical upper bound of all the cost-effective efficiency opportunities, but is not fully achievable, even with programs paying 100 percent of the costs of all efficiency measures. This is because consumers face many market barriers to efficiency.⁶ Therefore, we offer achievable results that more closely inform ultimate savings targets (QPIs).

Table 6 and Table 7 show the cumulative electric and gas potential in 2029. For electric, we estimate a total reduction of 21 percent of the forecasted 2029 load is achievable by Year 10 for energy and a reduction of 20 percent for demand. This translates to a reduction of load in 2029 of 16.9 million MWh and 4,162 MW. For gas, we estimate a total reduction of 57,005 billion Btu (BBtu), or 11 percent of 2029 load, and peak day reductions of 722 billion Btu (BBtu).⁷

Table 6. Cumulative maximum achievable electric savings by sector and program, 2029

Sector / program	Electric energy 2029 (MWh)	Sector savings (% of 2029 sales)	Electric demand 2029 (MW)	Sector savings (% of 2029 demand)
Residential	4,110,030	13%	1,650	Not available
New Construction	281,688		143	
Equipment Replacement	2,179,717		1,285	
Retrofit	1,648,624		222	
Commercial & Industrial	12,749,878	27%	2,512	Not available
New Construction	1,304,453		264	
Equipment Replacement	2,882,672		660	
Retrofit	8,562,753		1,589	
Total	16,859,908	21%	4,162	20%

⁶ An excellent overview of market barriers to energy efficiency is Vaidyanathan, S., S. Nadel, J. Amann, C. Bell, A. Chittum, K. Farley, S. Hayes, M. Vigen, and R. Young, "Overcoming Market Barriers and Using Market Forces to Advance Energy Efficiency," ACEEE Report E136, March 2013.

⁷ We do not report gas peak day demand savings as a percentage because we were not able to collect all the utility peak day forecasts.

Table 7. Cumulative maximum achievable gas savings by sector and program, 2029

Sector / program	Gas energy 2029 (BBtu)	Sector savings (% of 2029 sales)	Gas demand 2029 (BBtu)	Sector savings (% of 2029 demand)
Residential	21,264	8%	269	Not available
New Construction	2,074		26	
Equipment Replacement	10,271		130	
Retrofit	8,919		113	
Commercial & Industrial	35,741	16%	452	Not available
New Construction	3,633		46	
Equipment Replacement	11,030		140	
Retrofit	21,079		267	
Total	57,005	11%	722	Not available

Table 6 and Table 7 also break out the 2029 maximum achievable potential by sector and by major market. Every technology included in the study is analyzed for every applicable permutation of customer segment and market, resulting in over 4,000 individual efficiency measures. We break out the markets into new construction, equipment replacement (which includes renovations and remodels), and retrofit (early retirement). It is essential to consider markets separately because the same technology will not save or cost the same as the identical technology in a different market.

For example, if one is replacing a failed furnace, the costs will reflect the *incremental* cost of a new, high-efficiency furnace compared to a standard baseline new furnace, and similarly the savings will also reflect only the incremental savings from the baseline efficiency to the high efficiency. When replacing a still-functioning piece of equipment with a high-efficiency one, on the other hand, the cost is much higher and reflects the *entire cost of new equipment and labor*. But then that cost is also offset at some point in the future with additional benefits from the present value of the long-term or permanent deferral of new capital investment cycles. Similarly, the savings from an early retirement (retrofit) measure initially reflects the full savings of the new high-efficiency equipment compared to the old, inefficient piece of equipment. It will then drop down to a level based on the differential between the high efficiency and new standard baseline for efficient equipment at the end of the existing equipment's remaining useful life. More complete definitions of each market category are provided in the Methods section.

Similar to many other jurisdictions, the retrofit category represents the largest share of potential savings, at about 55 to 70 percent of the total for each fuel in the C&I sector. In the residential sector, approximately 40 percent of savings are expected from retrofit. Also, as one would expect, new construction is fairly small for both sectors, at about 10 percent, reflecting the fact that the rate of growth of new square feet is around 1 percent per year.

Table 8 and Table 9 provide the incremental annual and cumulative potential by year, separately for each fuel and sector.

Table 8. Incremental annual maximum achievable savings by fuel and sector

Year	Residential				Commercial & Industrial				Total			
	Electric (GWh)	Electric savings (% sector sales)	Natural gas (BBtu)	Gas savings (% sector sales)	Electric (GWh)	Electric savings (% sector sales)	Natural gas (BBtu)	Gas savings (% sector sales)	Electric (GWh)	Electric savings (% sales)	Natural gas (BBtu)	Gas savings (% sales)
2020	947	3.1%	1,821	0.7%	935	2.1%	2,130	1.0%	1,883	2.5%	3,951	0.8%
2021	1,167	3.8%	1,722	0.7%	1,204	2.7%	2,581	1.2%	2,371	3.1%	4,304	0.9%
2022	600	2.0%	3,009	1.2%	1,090	2.4%	3,092	1.4%	1,690	2.2%	6,101	1.3%
2023	685	2.2%	3,280	1.3%	1,234	2.7%	3,548	1.6%	1,919	2.5%	6,828	1.4%
2024	761	2.4%	3,592	1.4%	1,378	3.0%	3,944	1.8%	2,139	2.8%	7,536	1.6%
2025	794	2.5%	3,684	1.4%	1,460	3.2%	4,093	1.8%	2,254	2.9%	7,777	1.6%
2026	786	2.5%	3,761	1.4%	1,507	3.2%	4,187	1.9%	2,294	2.9%	7,949	1.6%
2027	790	2.5%	3,838	1.4%	1,590	3.4%	4,284	1.9%	2,380	3.0%	8,122	1.6%
2028	794	2.5%	3,899	1.4%	1,641	3.5%	4,379	1.9%	2,436	3.1%	8,279	1.7%
2029	782	2.4%	3,953	1.5%	1,698	3.5%	4,455	1.9%	2,481	3.1%	8,408	1.7%

Table 9. Cumulative annual maximum achievable savings by fuel and sector

	Residential				Commercial & Industrial				Total			
Year	Electric (GWh)	Electric Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Electric (GWh)	Electric savings (% sector sales)	Natural gas (BBtu)	Gas savings (% sector sales)	Electric (GWh)	Electric savings (% sales)	Natural gas (BBtu)	Gas savings (% sales)
2020	947	3.1%	1,821	0.7%	935	2.1%	2,130	1.0%	1,883	2.5%	3,951	0.8%
2021	1,834	6.0%	2,152	0.9%	2,140	4.7%	4,712	2.2%	3,973	5.2%	6,864	1.5%
2022	2,152	7.0%	3,758	1.5%	3,012	6.6%	7,811	3.6%	5,164	6.8%	11,569	2.5%
2023	2,555	8.3%	5,620	2.2%	3,939	8.6%	11,363	5.1%	6,494	8.5%	16,983	3.6%
2024	2,541	8.2%	8,562	3.3%	5,316	11.6%	15,301	6.9%	7,857	10.2%	23,863	5.0%
2025	2,376	7.6%	11,841	4.6%	6,764	14.6%	19,386	8.7%	9,140	11.8%	31,228	6.4%
2026	2,828	8.9%	14,122	5.4%	8,237	17.7%	23,491	10.4%	11,065	14.1%	37,613	7.7%
2027	3,273	10.2%	16,462	6.2%	9,772	20.8%	27,626	12.2%	13,044	16.5%	44,088	8.9%
2028	3,705	11.5%	18,845	7.0%	11,247	23.7%	31,686	13.8%	14,953	18.7%	50,531	10.1%
2029	4,110	12.6%	21,264	7.8%	12,750	26.6%	35,741	15.5%	16,860	20.9%	57,005	11.3%

Below we provide additional details of the potential results showing how they break out by customer segment and end use. Finally, the section on utility allocations shows many of the same tables separately for each public electric and gas utility, with additional detail on utility allocations in Appendix A. Appendices B through H provide the most granular measure level details, as well as various data inputs.

Efficiency Potential by Building Type

The following charts show how each total sector potential breaks out by commercial and residential building. The section on methods provides more detail on segment definitions. The analysis was, by request and design, a ten-year potential analysis, encompassing the years from 2020 through 2029, inclusively. All results are therefore shown as of the close of that ten-year analysis period.

Over 90 percent of the residential potential from electric and gas comes from single-family homes, with about 25 percent of that coming from low-income single-family homes for each of electric and gas, as shown in Figure 3 and Figure 4.

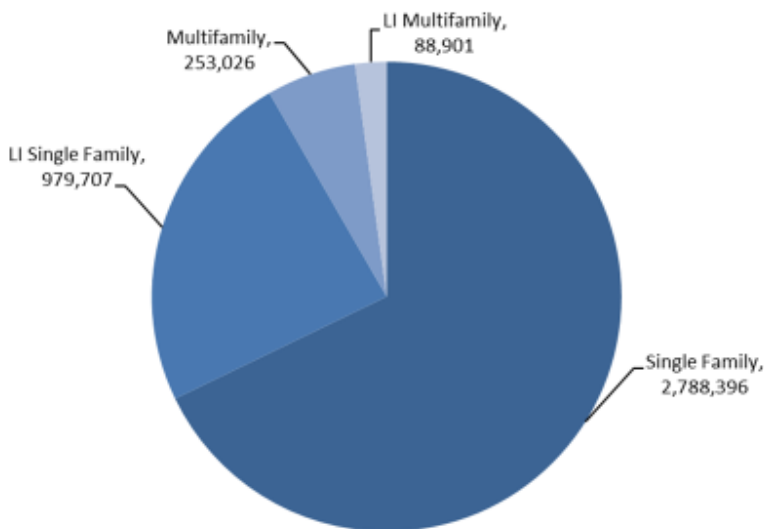


Figure 3. Residential electric maximum achievable potential savings by building type, 2029 (MWh).

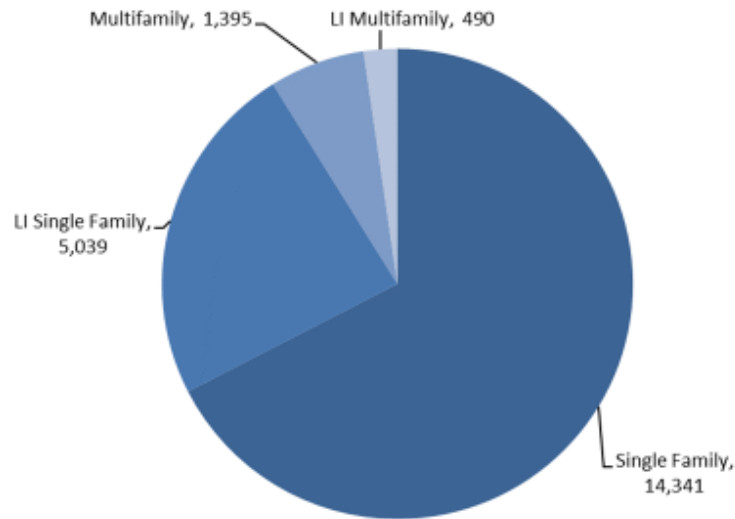


Figure 4. Residential natural gas maximum achievable potential savings by building type, 2029 (BBtu).

The commercial sector electric breakout shows the largest opportunities in large office and large retail, with substantial opportunities in education, food service, and grocery. For gas, these relationships shift and small retail and education become the largest opportunities. See Figure 5 and Figure 6.

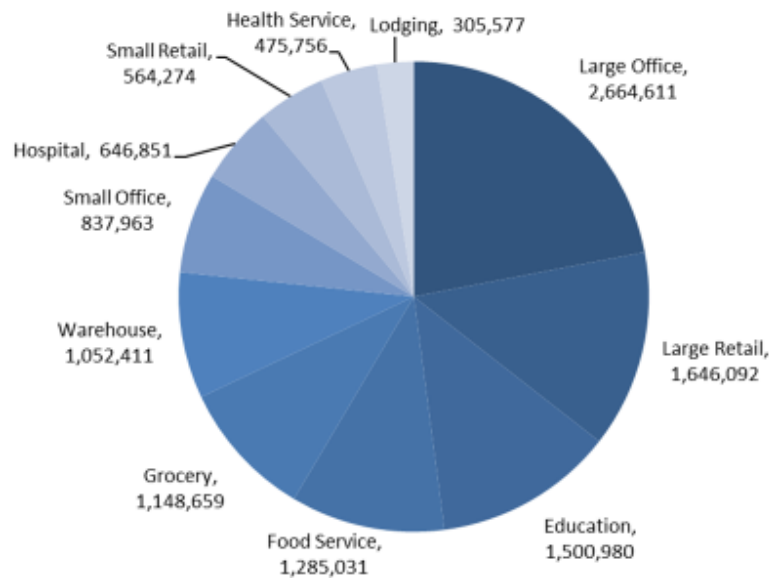


Figure 5. Commercial electric maximum achievable potential savings by building type, 2029 (MWh).

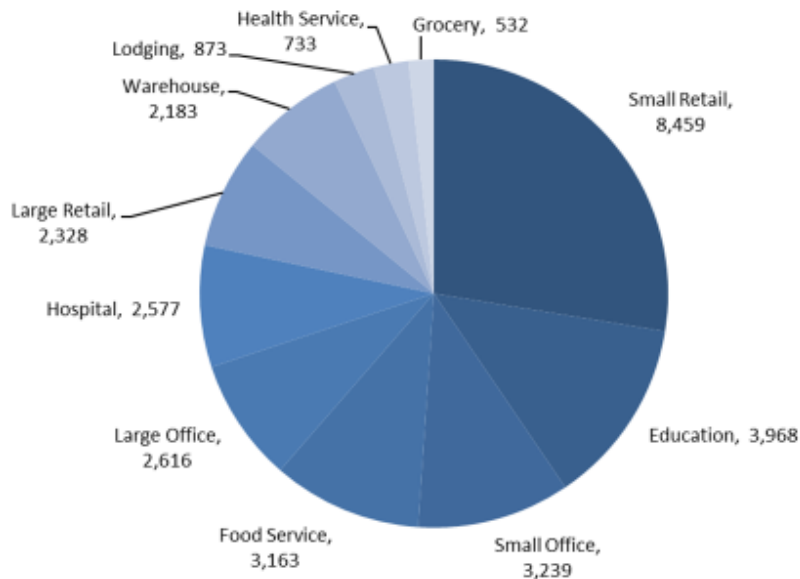


Figure 6. Commercial natural gas maximum achievable potential savings by building type, 2029 (BBtu).

Efficiency Potential by End Use

Similar to the customer segment breakout, we provide the breakout for each sector by major end use category, as shown in Figure 7 and Figure 8. For residential electric, the largest opportunities are in domestic hot water, and cooling. Heat pump water heaters can provide large water-heating savings. Gas shows virtually all savings coming from space and water heating, as is typical. Note that we have end use categories called *whole building*. These reflect measures that address multiple end use savings that we are not able to break out, such as home energy reports, retro-commissioning and strategic energy management. (See section on methods for description of how the potential interactive effects of measures are handled.)

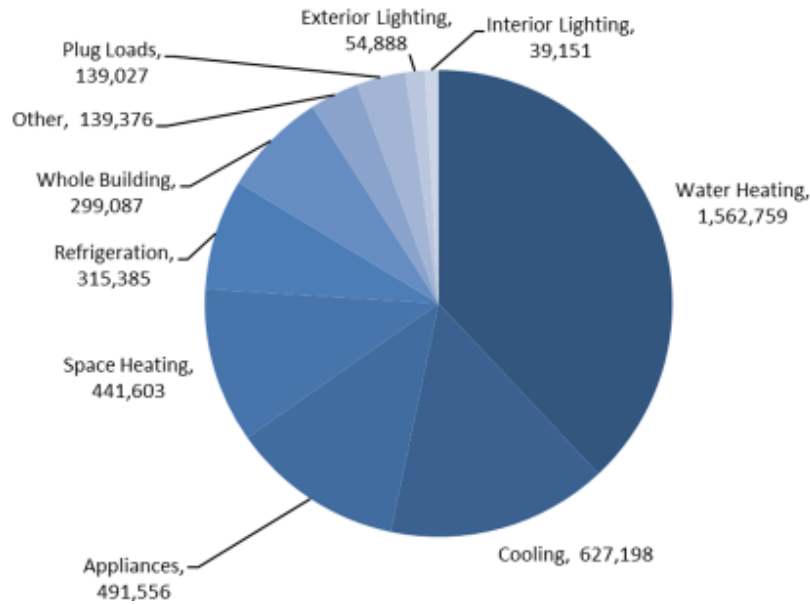


Figure 7. Residential electric maximum achievable potential savings by end use, 2029 (MWh).

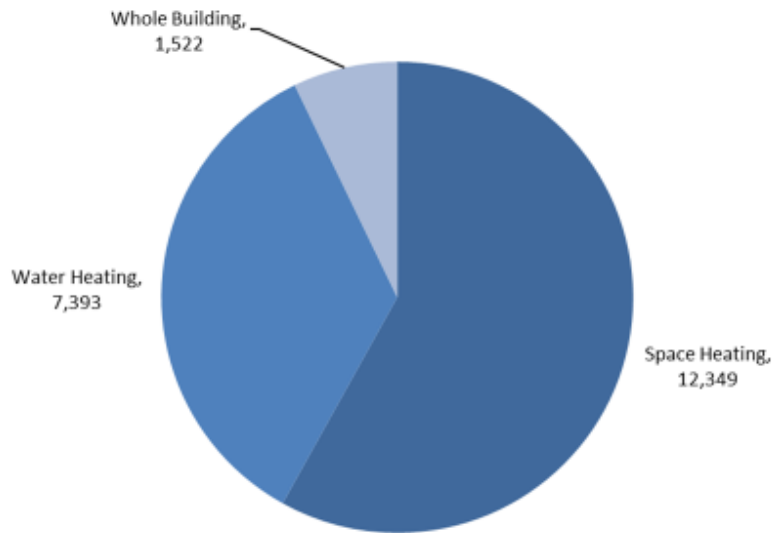


Figure 8. Residential natural gas maximum achievable potential savings by end use, 2029 (BBtu).

For commercial, we find the largest electric opportunities in interior lighting, whole building, and refrigeration, with substantial opportunities in ventilation and cooling. For gas, space heating and whole building dominate, because water heating is not a major end use for many commercial buildings. Cooking equipment does provide some significant opportunities as well. See Figure 9 and Figure 10. The *whole building* category includes multiple measures for which we cannot with certainty estimate the contribution of each measure, such as “integrated building design” in new construction.

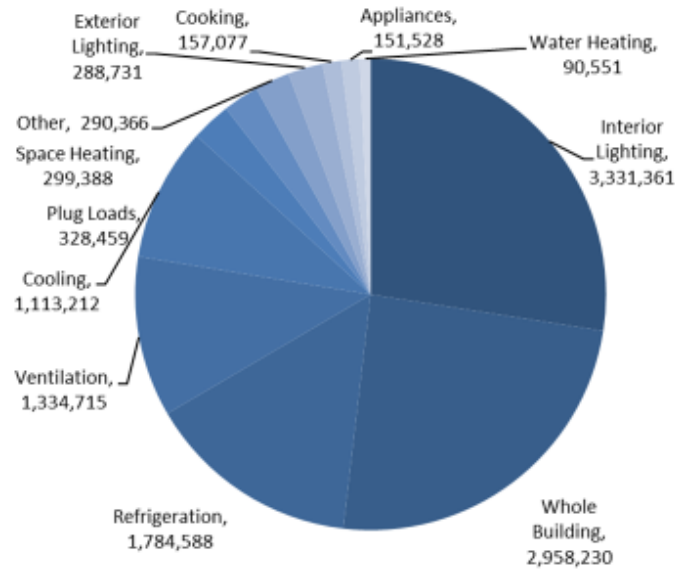


Figure 9. Commercial electric maximum achievable potential savings by end use, 2029 (MWh).

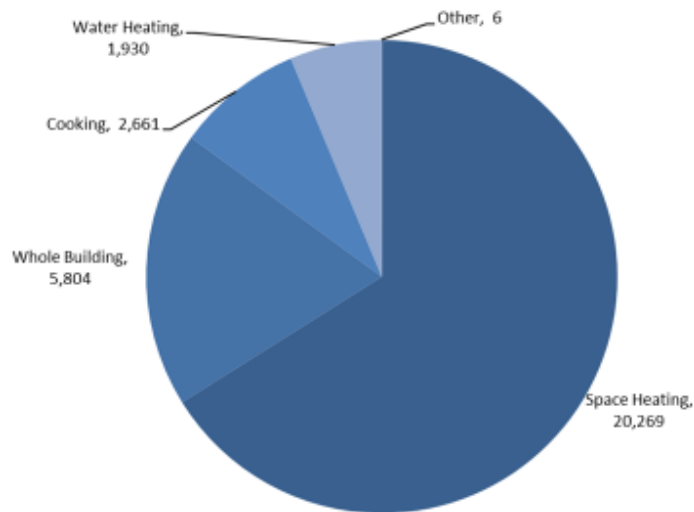


Figure 10. Commercial natural gas maximum achievable potential savings by end use, 2029 (BBtu).

For the industrial sector, the majority of savings comes from process measures, which we break out into many categories. Process loads related to motor systems dominate the process opportunities. Interior lighting is still a significant source of savings as well. For gas, the majority is process heating, but there are still substantial space heating opportunities. See Figure 11 and Figure 12.

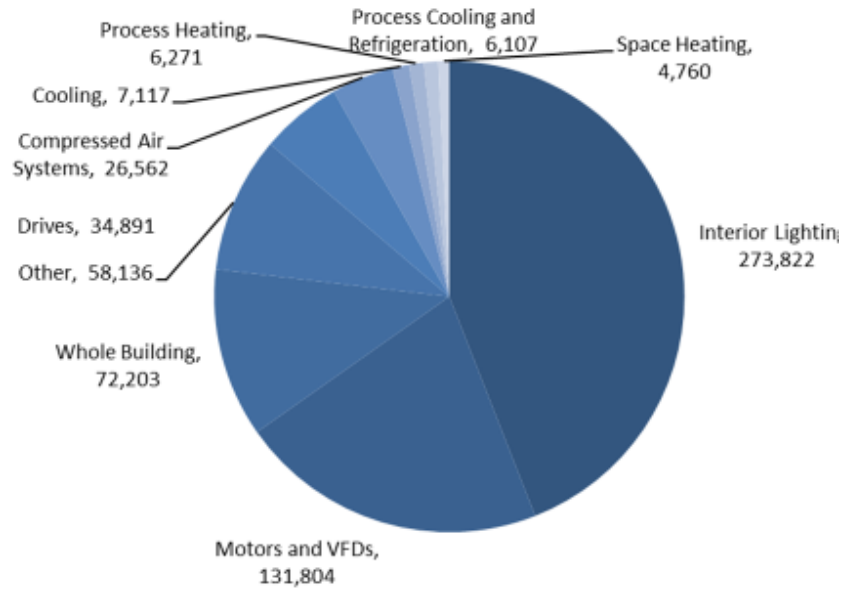


Figure 11. Industrial electric maximum achievable potential savings by end use, 2029 (MWh).

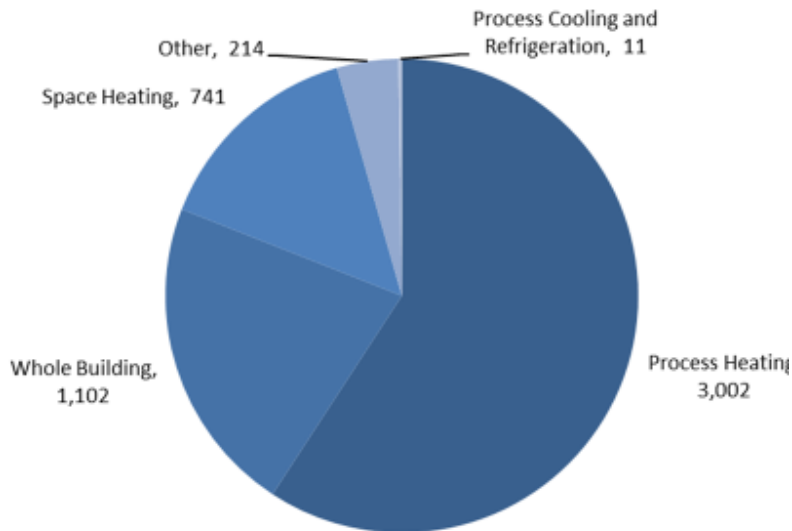


Figure 12. Industrial natural gas maximum achievable potential savings by end use, 2029 (BBtu).

Top Savings Measures

Table 10 through Table 15 show the top 10 highest savings measures in each category, and what share of the total potential in that category they represent. It is important to note that although they give readers an idea of the types of measures that result in large savings, there is a somewhat arbitrary nature to the exact measures that appear on this list, and the order in which they are presented. This is because the sum of individual measure savings far exceeds the total efficiency potential of those measures, collectively. As is explained in more detail in the Methods section, there are many interactions between measures, and there are also sets of mutually exclusive measures. Therefore, the order in which the measures are prioritized significantly

influences and reduces the savings to subsequent measures. Different rankings of measures or varying penetration rates shared between mutually exclusive measures (for example, an LED or a CFL screw-in application for a particular socket) can shift which savings make it to the top 10.

Table 10. Residential maximum achievable potential electric energy top savings measures, 2029

Measure name	Cumulative MWh	Percent of total
Heat Pump Water Heater <55 gallon, Gas Space Heat	493,628	12.0%
Heat Pump Water Heater <55 gallon, Electric Space Heat	449,331	10.9%
Home Energy Reports	299,087	7.3%
ENERGY STAR Refrigerators and Freezers	258,462	6.3%
Low Flow Showerhead	231,089	5.6%
ENERGY STAR Clothes Washer, Gas DHW/Electric Dryer	215,619	5.2%
Air Source Heat Pump, Repl. Electric Heat and CAC	174,693	4.3%
Water Heater Jacket Insulation	174,002	4.2%
Smart Thermostat	168,856	4.1%
Advanced Tier 2 Power Strips	139,027	3.4%

Table 11. Residential maximum achievable potential electric summer peak demand top savings measures, 2029

Measure name	Cumulative MW	Percent of total
ENERGY STAR Clothes Washer, Gas Domestic Hot Water / Electric Dryer	275.9	6.6%
ENERGY STAR Room Air Conditioner	264.5	6.4%
ENERGY STAR Clothes Washer, Electric Domestic Hot Water / Electric Dryer - Appliances	172.9	4.2%
ENERGY STAR Dehumidifier	134.7	3.2%
Air Source Heat Pump, Replace Electric Heat and Central Air Conditioning - Cooling	133.8	3.2%
Air Source Heat Pump, Replace Standard ASHP - Cooling	90.2	2.2%
Air Source Heat Pump with Quality Install, Replace Standard ASHP – Cooling	73.8	1.8%
ENERGY STAR Clothes Washer, Electric Domestic Hot Water / Electric Dryer – DHW	58.8	1.4%
Air Source Heat Pump with Quality Install, Replace Electric Heat and Central Air Conditioning – Cooling	58.3	1.4%
Ductless Mini Split Heat Pump	43.3	1.0%

Table 12. Residential maximum achievable potential gas energy top savings measures, 2029

Measure name	Cumulative BBtu	Percent of Total
High Efficiency Furnace	5,384	25.3%
High Efficiency Storage Gas Water Heater	4,273	20.1%
Smart Thermostat	4,257	20.0%
High Efficiency Boiler	2,782	13.1%
Low Flow Showerhead, Single Family	1,864	8.8%
Home Energy Reports	1,522	7.2%
Low Flow Showerhead, Multifamily	547	2.6%
High Efficiency Furnace	469	2.2%
Electronic Ignition Hearth	389	1.8%
High Efficiency Boiler	289	1.4%

Table 13. C&I maximum achievable potential electric energy top savings measures, 2029

Measure name	Cumulative MWh	Percent of total
Comprehensive Data Center Efficiency	733,000	5.7%
Building Energy Management System, Buildings with Gas Space Heat	584,366	4.6%
VFD on HVAC System	545,720	4.3%
LED Tube Replacement Lamps, Buildings with Gas Space Heat	502,008	3.9%
LED Linear Fixtures, Buildings with Gas Space Heat	471,865	3.7%
Interior Lighting Controls, Buildings with Gas Space Heat	429,513	3.4%
Retro-commissioning, Buildings with Gas Space Heat	409,592	3.2%
Refrigeration Evaporator Fan Motor Replacement	352,275	2.8%
Building Energy Management System, Buildings with Electric Space Heat	313,864	2.5%
Refrigeration Evaporator Fan Speed Controls	291,068	2.3%

Table 14. C&I maximum achievable potential electric summer peak demand top savings measures, 2029

Measure name	Cumulative MW	Percent of Total
Smart Thermostat, Buildings with Gas Space Heat	121.4	2.9%
LED Tube Replacement Lamps, Buildings with Gas Space Heat	119.8	2.9%
LED Linear Fixtures, Buildings with Gas Space Heat	113.7	2.7%
Interior Lighting Controls, Buildings with Gas Space Heat	105.5	2.5%
Building Energy Management System, Buildings with Gas Space Heat	94.8	2.3%

Measure name	Cumulative MW	Percent of Total
Demand Control Ventilation, Buildings with Gas Space Heat	73.2	1.8%
Mini-split Ductless Heat Pump	71.3	1.7%
Retro-commissioning, Buildings with Gas Space Heat	68.6	1.6%
LED Tube Replacement Lamps, Buildings without Space Heat	60.9	1.5%
LED Linear Fixtures, Buildings without Space Heat	58.4	1.4%

Table 15. C&I maximum achievable potential gas energy top savings measures, 2029

Measure name	Cumulative BBtu	Percent of Total
Demand Control Ventilation, Buildings with Gas Space Heat	4,513	12.6%
High Efficiency Boiler	4,149	11.6%
Building Energy Management System, Buildings with Gas Space Heat	3,404	9.5%
High Efficiency Furnace	3,019	8.4%
Industrial Process Heating Improvements	3,002	8.4%
Energy Recovery Ventilator	2,791	7.8%
Retro-commissioning, Buildings with Gas Space Heat	2,042	5.7%
Smart Thermostat, Buildings with Gas Space Heat	1,895	5.3%
ENERGY STAR Griddles	1,180	3.3%
ENERGY STAR Ovens	1,143	3.2%

Utility Allocations of Energy Efficiency Potential

The following eight tables (Table 16 through Table 23) show the utility allocations of energy efficiency potential. Utility-specific sales forecasts were used as weights to assign individual utility shares of the estimated statewide potential for electric and gas efficiency. Electric efficiency allocations are presented first, followed by allocations of gas efficiency. In each case, we are reporting cumulative maximum achievable potential by sector for energy and demand. Technical Appendix A provides additional detailed tables on allocated costs and benefits, as well as incremental estimates by sector and year.

Electric Efficiency Utility Allocations

Table 16. Cumulative maximum achievable potential electric savings, by sector, Atlantic City Electric, 2029

Sector	Electric energy 2029 (GWh)	Sector savings (% of 2029 sales)	Electric demand 2029 (GW)	Sector savings (% of 2029 demand)
Residential	579	13%	237	Not available
Commercial & Industrial	1,218	27%	261	Not available
Total	1,796	20%	497	19%

Table 17. Cumulative maximum achievable potential electric savings, by sector, Jersey Central Power & Light, 2029

Sector	Electric energy 2029 (GWh)	Sector savings (% of 2029 sales)	Electric demand 2029 (GW)	Sector savings (% of 2029 demand)
Residential	1,374	13%	543	Not available
Commercial & Industrial	3,320	27%	660	Not available
Total	4,693	20%	1,203	18%

Table 18. Cumulative maximum achievable potential electric savings, by sector, Public Service Electric and Gas, 2029

Sector	Electric energy 2029 (GWh)	Sector savings (% of 2029 sales)	Electric demand 2029 (GW)	Sector savings (% of 2029 demand)
Residential	1,947	13%	783	Not available
Commercial & Industrial	7,958	27%	1,541	Not available
Total	9,905	22%	2,324	21%

Table 19. Cumulative maximum achievable potential electric savings, by sector, Rockland Electric, 2029

Sector	Electric energy 2029 (GWh)	Sector savings (% of 2029 sales)	Electric demand 2029 (GW)	Sector savings (% of 2029 demand)
Residential	211	13%	87	Not available
Commercial & Industrial	255	27%	50	Not available
Total	466	18%	137	30%

Gas Efficiency Utility Allocations

Table 20. Cumulative maximum achievable potential gas savings, by sector, Elizabethtown Gas, 2029

Sector	Gas energy 2029 (BBtu)	Sector savings (% of 2029 sales)	Gas demand 2029 (BBtuh)	Sector savings (% of 2029 demand)
Residential	2,100	8%	26	Not available
Commercial & Industrial	4,610	16%	57	Not available
Total	6,710	12%	83.34	Not available

Table 21. Cumulative maximum achievable potential gas savings, by sector, New Jersey Natural Gas, 2029

Sector	Gas energy 2029 (BBtu)	Sector savings (% of 2029 sales)	Gas demand 2029 (BBtuh)	Sector savings (% of 2029 demand)
Residential	4,548	8%	55	Not available
Commercial & Industrial	3,738	16%	47	Not available
Total	8,286	10%	102	Not available

Table 22. Cumulative maximum achievable potential gas savings, by sector, Public Service Electric and Gas 2029

Sector	Gas energy 2029 (BBtu)	Sector savings (% of 2029 sales)	Gas demand 2029 (BBtuh)	Sector savings (% of 2029 demand)
Residential	12,419	8%	160	Not available
Commercial & Industrial	22,976	16%	294	Not available
Total	35,395	12%	454	Not available

Table 23. Cumulative maximum achievable potential gas savings, by sector, South Jersey Gas, 2029

Sector	Gas energy 2029 (BBtu)	Sector savings (% of 2029 sales)	Gas demand 2029 (BBtuh)	Sector savings (% of 2029 demand)
Residential	2,197	8%	28	Not available
Commercial & Industrial	4,417	16%	55	Not available
Total	6,614	12%	82	Not available

DEMAND RESPONSE POTENTIAL

Summary of Approach and Major Assumptions

Demand response (DR) is defined by the Federal Energy Regulatory Commission (FERC) as changes in electric usage by end-use customers from their normal consumption patterns in response to either short-term changes in the price of electricity or to incentive payments designed to induce lower electricity use at times of high wholesale market prices or when system reliability is jeopardized.⁸

We base the potential and costs for demand reduction from DR in New Jersey on a review of DR programs by other utilities and on potential studies in other U.S. jurisdictions. We collected

⁸ FERC, "National Assessment & Action Plan on Demand Response." <https://www.ferc.gov/industries/electric/indus-act/demand-response/dr-potential.asp>

data on participation rates, average savings per participating customer, the cost of DR enabling equipment, administrative costs, and necessary incentive costs. We applied these representative values, adjusted to a New Jersey context, to estimate the savings and costs for various DR program strategies in the appropriate customer groups in New Jersey, and based the benefit value on the avoided cost of capacity in New Jersey.

New Jersey customers, especially large commercial and industrial customers, might already have experience with demand response through the regional transmission organization's (PJM's) programs. However, PJM's wholesale peaks and constraints might not coincide with the peak constraints from local utilities. In response, many other states, including Pennsylvania and Maryland, have set up retail demand response programs that can complement the wholesale programs run by PJM. This analysis looks at the potential for retail demand response, and so does not include existing PJM resources as a starting point. Further, as advanced metering infrastructure (AMI) becomes more common throughout the United States, new demand response strategies such as time-based rates and auto-DR are likely to become available. Although New Jersey's AMI is currently quite limited, this analysis assumes a steady rollout of smart meters until the state is fully covered in Year 10 of the study.⁹ As AMI becomes available to more customers, the range of program offerings can widen to take advantage of these new technology opportunities. Additionally, there is a growing set of demand response strategies that are not dependent on AMI, but work through other two-way communication infrastructure (sometimes proprietary) to monitor and respond to conditions in a home or business. The growth of non-utility third-party vendors in this business space has been notable in many jurisdictions.

Methods

This section describes our approach to the DR portion of the potential study analysis. The subsequent sections provide detailed descriptions of the analysis methods and assumptions for each program area.

The analysis of DR potential involved several steps. We began by conducting a literature review of previous DR potential studies, including at the national, state, and utility territory levels. We reviewed DR program evaluations from utilities and their evaluators, as well as available meta-studies of demand response. We reviewed relevant literature throughout the study and used previous studies and program results to compare and check the general scale and validity of our own data. We collected the following values from the literature:

- Peak demand savings per measure
- Equipment cost
- Administrative cost
- Typical incentive cost
- Participation rates

⁹ Northeast Energy Efficiency Partnerships (NEEP). Utility Trends in Advanced Metering Infrastructure. <https://neep.org/blog/utility-trends-advanced-metering-infrastructure>

We also used recent baseline data from Long Island and Hudson Valley to determine the commercial saturation of central air conditioners and electric water heaters for the direct load control measures (discussed below). For the residential sector, we have used the U.S. Energy Information Administration's (EIA's) Residential Energy Consumption Survey (RECS) data to determine equipment saturation rates.

From the literature, we determined major programs based on market sector (residential; and small, medium, and large commercial and industrial [C&I]), program type (for example, direct control, automated response, or time varying rates), and the targeted energy end use (for example, lighting, heating, air conditioning).

Next, we have applied the collected data from the literature to a New Jersey-specific context. We use PJM's peak demand forecast as a baseline, and estimate the number of New Jersey households based on EIA Form 861. Data on demand by disaggregated customer types were not available, so we therefore have used other strategies to estimate the share of demand attributable to these customers.

Measure Characterizations

Critical Peak Pricing, with and without Smart Thermostats

Residential Time-Varying Rates (TVRs) are increasingly being used as a demand response tool to reduce peak demand. Residential load demands particular attention, because the sector often has a much lower load factor than the C&I sector. This means that residential load is "peakier" than C&I load, and thus could significantly benefit from demand response. Further, residential demand response has traditionally been much harder and more expensive to achieve at scale than C&I demand response, since there are lower economies of scale, and the programs have required the utilities to visit the customer and manually install a direct load control (DLC) device. TVRs are a particularly intriguing method for reducing peak demand, since they can be implemented in a mostly revenue-neutral manner. Further, they have minimal ongoing costs for the utility, and can bring significant other benefits by increasing the economic efficiency of how people pay for electricity.

Due to the increasing penetration of AMI, time-varying rates are becoming more common throughout the United States. As examples:

- Ameren and Commonwealth Edison have each enrolled approximately 25,000 customers in a time-varying rate program.
- The Massachusetts Department of Public Utilities has issued a straw proposal calling for a default critical peak pricing and time-of-use rate.
- In 2014, Baltimore Gas and Electric (BG&E) ran a peak time rebate program; of the 867,000 eligible customers, 76 percent participated per event.¹⁰

¹⁰ Ahmad Faruqui, *A Global Perspective on Time Varying Rates*, June 23, 2015, available at http://www.brattle.com/system/publications/pdfs/000/005/183/original/A_global_perspective_on_time-varying_rates_Faruqui_061915.pdf?1436207012.

This analysis looks at a type of TVR known as *critical peak pricing* (CPP). Under this rate, customers pay higher peak prices during a discrete number of days when market prices are forecast to be highest. Enrollees are typically notified of these critical events a day in advance. Because this pricing occurs during a set number of days, the difference in electric rate between the critical peak and off-peak periods can be very large. The ratio of the peak price to off-peak prices typically falls around 1 : 8 or 9, meaning that the critical peak price is 8 or 9 times the off-peak price. Examples are:¹¹

- Oklahoma Gas & Electric's (OG&E's) critical peak price of \$0.42 / kWh
- PSE&G's critical peak price added to the off-peak price in a range from \$0.23 / kWh (non-summer) to \$1.37 / kWh (summer)
- Pacific Gas & Electric's critical peak price adder of \$0.60 / kWh
- DTE Energy's (Detroit) critical peak price of \$1.00 / kWh

Examples of CPP programs are OG&E's SmartHours program and Arizona Public Service's residential Super Peak CPP program.

Rate programs can be designed as "opt-in" or "opt-out" programs. For opt-out programs, the time-varying rate is the default, and customers can decide not to participate. For opt-in programs, customers must actively sign up for the time-varying rate. For opt-out programs, all customers are defaulted to the rate, and have to actively call the utility to opt out. Opt-out programs lower savings per participant than opt-in programs, but this seeming disadvantage to the utility is more than compensated by significantly higher participation. For opt-in programs, spending on marketing and outreach to recruit customers influences participation and savings rates. Some utilities administer these programs as they would any other rate option. Thus, their only costs are program evaluations. Other utilities invest in marketing and outreach to increase rate subscriptions. Programs that use high on-peak prices to penalize energy use during certain times attract customers through low off-peak prices that they can take advantage of. This analysis looks at both opt-in and opt-out programs and assumes some marketing spending for the opt-in program.

We used Arcturus 2.0, a comprehensive database of 200+ residential TVR pricing tests,¹² to estimate savings from critical peak pricing. The Arcturus database currently contains 210 TVR treatments from across the world. We used the extensive data in the Arcturus dataset to create a regression equation that predicts peak savings based on the ratio of the on-peak to off-peak prices, and whether the household has enabling technology (typically a Wi-Fi thermostat). Figure 13 shows peak savings for time-of-use rates, critical peak pricing, and critical peak rebates as a function of the peak-to-off-peak ratio. The figure shows a logarithmic increase in peak reduction

¹¹ Fenrick, S., L. Getachew, C. Ivanov, and J. Smith. "Demand Impact of a Critical Peak Pricing Program: Opt-in and Opt-out Options, Green Attitudes and Other Customer Characteristics." *The Energy Journal* 35 (3), 2014. Pages 1 – 25. <https://pdfs.semanticscholar.org/a3ca/f0a62d9fa7fb5f25635dc19922fd27580300.pdf>.

¹² The Brattle Group, "Arcturus 2.0: A Meta-analysis of Time-varying Rates for Electricity." <https://www.brattle.com/news-and-knowledge/publications/arcturus-20-a-meta-analysis-of-time-varying-rates-for-electricity>.

as the peak-to-off-peak ratio increases, and the entire curve shifts upward if the participating household has enabling technology.

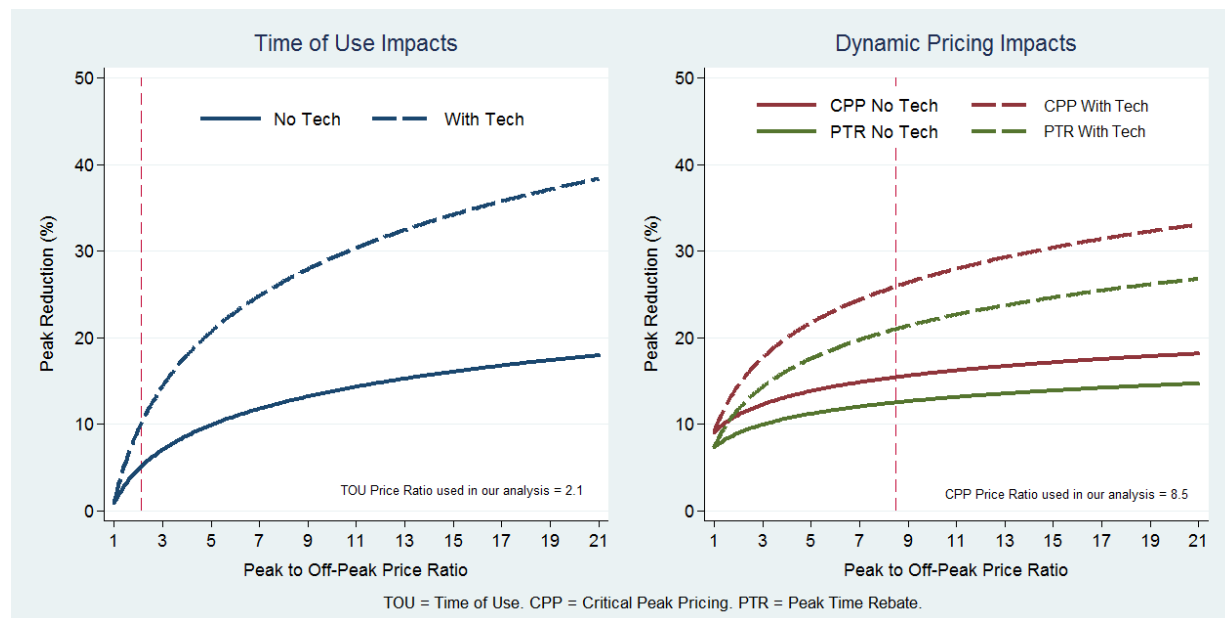


Figure 13. Time-varying rate regression equations.¹³

For this analysis, we use the regression equation derived from Arcturus 2.0 to predict the savings from critical peak pricing and smart thermostats. We supplement this information with data from a Sacramento Municipal Utility District (SMUD) pilot program examining actual differences in savings per customer and participation rates in both opt-in and opt-out rates. Table 24 shows the percent savings per customer, total MW reduction at the customer meter, and percent reduction of the total peak demand forecast for opt-in and opt-out critical peak pricing, both with and without enabling technology.

Table 24. SMUD-observed at meter savings per customer and participation in opt-in and opt-out rate structures, with and without smart technology

	Average % DR during event	Total MW reduction in 2029, at meter	Reduction as % of forecast
Opt in, no thermostats	15.2%	222	1.2%
Opt in thermostats	25.4%	299	1.6%
Opt out, no thermostats	8.5%	521	2.8%
Opt out, thermostats	14.2%	565	3.1%

¹³ Faruqui, A., and S. Sergici, "Arcturus: International Evidence on Dynamic Pricing," *The Electricity Journal*, July 1, 2013. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2288116

Direct Load Control

DLC has been the traditional method for demand response in the residential sector, and the main strategy to achieve savings in the absence of advanced metering infrastructure. Direct Load Control devices have to be directly installed on specific pieces of equipment by the utility, and they therefore make sense only for the largest energy-using pieces of equipment: central air conditioners and electric water heaters. Since savings that would be achieved via DLC devices on central air conditioners overlap completely with the savings from Wi-Fi thermostats and time varying rates from the “time varying rates with enabling technology” measure described above, we only analyzed DLC devices for water heaters, and not for CACs.

Residential Direct Load Control

To estimate demand reductions and costs for residential water heater DLC programs, we first estimated local penetration of residential electric water heaters from EIA’s RECS. We assume that the presence of an electric water heater would determine the households that would be the target of such a program. RECS identified that an estimated 31 percent of housing units in the Mid-Atlantic U.S. Census zone have electric water heaters. Next, we estimated participation levels from data in the literature. For example, PNM New Mexico achieves a participation rate of 22 percent, Baltimore Gas and Electric’s PeakRewards Program achieves participation of 39 percent, various DR potential studies use a range of 25 to 60 percent, and EIA data imply a typical participation of 34 percent.

Similarly, we estimated energy and demand savings and costs assumptions based on DLC and program data from other programs and potential studies.

Small Commercial DLC

Many commercial customers’ electrical loads are small enough to use residential-sized equipment. These customers are not affected by TVRs and are too small to merit participating in the medium and large C&I programs we describe below. We therefore also include in the analysis an estimate of the DR potential of DLC on air conditioners and water heaters in small commercial facilities. The methods and data points align with those used for the residential sector, although we determine central air conditioning and electric water heater saturation via baseline survey data recently obtained for New York State.

DLC Summary Results

Table 25 shows the peak reduction per participant, total expected MW reduction at the customer meter by 2029, and the percent reduction of forecast in 2029 for the DLC measures. In the analysis, we assumed a steady ramp-up rate for each measure until each program reached steady-state participation. The 2029 numbers are our estimates of what is achievable once programs have fully scaled.

Table 25. Residential DLC model inputs, per participant

Program measure	Average kW reduction during event, at meter	Total MW reduction in 2029, at meter	Reduction as % of forecast
Residential water heater DLC	0.34	132	0.7%
Small commercial water heater DLC	0.34	38	0.2%
Small commercial central air conditioner DLC	0.68	103	0.6%

Medium and Large C&I Programs

In reviewing the literature, we chose to analyze one program model for the large customers, and two for medium-sized customers:

- Standard offer program (SOP), where the customer is paid to curtail load for a maximum number of times during a set period, usually with 24 hours' advance notice. This is a well-established demand response program for very large C&I customers. Typically, the utility pays a set amount per kW to a third-party curtailment service provider (CSP), which then works with large customers and aggregates peak reduction potential. This program is applied only to large customers (peak demand of at least 150 kW) in the analysis.
- Grid-enabled advanced lighting controls, where the utility sends automated event signals to a lighting control system during peak periods. In response, the system determines how best to reduce peak loads with minimum impact on the occupants, whether it is dimming lights, or turning off certain areas completely. We base the program structure on Pacific Gas & Electric's automated DR program, which offers high up-front incentives to help install the control system, but no ongoing incentives after installation. We apply this measure to medium-sized DR customers, which are too small to be considered for the SOP, but big enough that they use commercial-sized energy-using equipment.
- Grid-enabled energy management systems (EMS), where the utility sends automated event signals to the building energy management system, which will automatically cycle heating, ventilation, and air conditioning (HVAC), reduce set points, and perform other preprogrammed energy management strategies to reduce peak demand. As with the advanced lighting controls, it is assumed that the utility will give high up-front incentives for the installation of the AutoDR EMS, but no ongoing incentives subsequent to installation. This measure is also applicable to medium-sized C&I customers.

In general, we take a similar approach to the other measures, taking savings, cost, and participation values from programs in other jurisdictions and from other potential studies of demand response. For the SOP, we assume that 50 percent of the medium and large C&I peak

demand is from customers large enough to participate in the program. We also assume a 20 percent participation rate of the eligible load, 95 percent participation per event, and that each customer would save 40 percent of energy use, on average.

For the advanced lighting controls, we disaggregate lighting peak demand using EIA's Commercial Building Energy Consumption Survey (CBECS). We also assume that the end use distribution of peak demand is similar to that of energy use. We further assume a steady-state participation of 25 percent, and that the controls would produce a 44 percent reduction in lighting use.

The grid-enabled EMS affects the entire building's energy use. We estimate current saturation of EMS in commercial businesses using baseline survey data from New York State. We assume that 75 percent of facilities that currently have an Energy Management System, and 20 percent of facilities with no current EMS will participate in the program. Table 26 combines these assumptions.

Table 26. Assumptions for medium-sized and large customers

Program measure	Average % reduction per customer	Total MW reduction in 2029, at meter	Reduction as % of applicable forecast
Standard offer program (SOP)	40%	452	2.5%
Advanced lighting controls	44%*	95	0.5%
Grid-enabled EMS	10%	101	0.5%

* 44% of lighting load only

Cost Effectiveness

Each program or measure was also screened for cost effectiveness. In general, we used conservative assumptions for cost-effectiveness screening:

- **No energy savings.** We assume that all reduction in energy use during peak time would be offset by an increase in energy use during non-peak time.
- **Societal cost.** In energy efficiency programs, the incentive is considered a transfer payment, and therefore not included as a cost in the SCT. However, for demand response, there is some real cost to participants who reduce their demand in exchange for an annual incentive payment, whether it is in the form of having to run a generator, or reduced comfort from AC cycling, or something else. This analysis assumes that the cost to the customer is equal to the value of the incentive payment, and thus the full incentive payment is treated like a measure cost and included in the SCT as a cost.

- **Avoided capacity benefits.** We “de-rate” the capacity avoided costs used for energy efficiency savings, based on a California approach that accounts for:¹⁴
 - **Availability.** Only a given number of events can be called per year, compared to energy efficiency program peak impacts, which generally reduce peak consistently.
 - **Notification.** If the event is called the day before an expected peak, there is a chance the predictions will be incorrect, and the event will not actually coincide with the peak.
 - **Trigger.** Some DR programs mandate that events can be called only if certain conditions are met, such as if the outdoor temperature exceeds a certain value

The de-rating factors used in California vary by utility and program, and range from 10 to 50 percent. We use 50 percent in this analysis.

Table 27 shows the cost-effectiveness ratios of each program. As shown, all but the three DLC measures pass the societal cost test. The opt-out program with no thermostats has an incredibly high benefit-to-cost ratio, since it assumes a revenue-neutral rate design and simply entails a switch in rate structure. This phenomenon might incur some upfront costs, but minimal costs for ongoing operations and maintenance, incentives, or program administration.

Table 27. Cost effectiveness by demand response program, under the societal cost test

Measure	SCT ratio
CPP opt in, no thermostat	12.6
CPP opt in, thermostat	2.7
CPP opt out, no thermostat	598.4
CPP opt out, thermostat	10.6
Residential water heater DLC	0.5
Small C&I water heater DLC	0.5
Small C&I CAC DLC	0.5
Large C&I SOP	2.2
Auto-DR advanced lighting controls	3.0
Auto-DR grid-enabled EMS	2.9

The study’s results show total costs, peak demand savings, and cost-effectiveness for the evaluated demand response programs. We present findings for years 2020 through 2029. We give results for CPP opt-out with enabling technology, since this program achieves higher savings than the other CPP scenarios. Adding thermostats to the CPP significantly increases program costs, because otherwise it is just a rate change with very little in the way of ongoing expenses.

¹⁴ See Hledik, R., and A. Faruqui. “Valuing Demand Response: International Best Practices, Case Studies, and Applications.” Prepared for EnerNOC by the Brattle Group. January 2015.
http://files.brattle.com/files/5766_valuing_demand_response_-_international_best_practices_case_studies_and_applications.pdf.

Results for each of the scenarios are presented in Figure 14, Table 28, and Table 29.

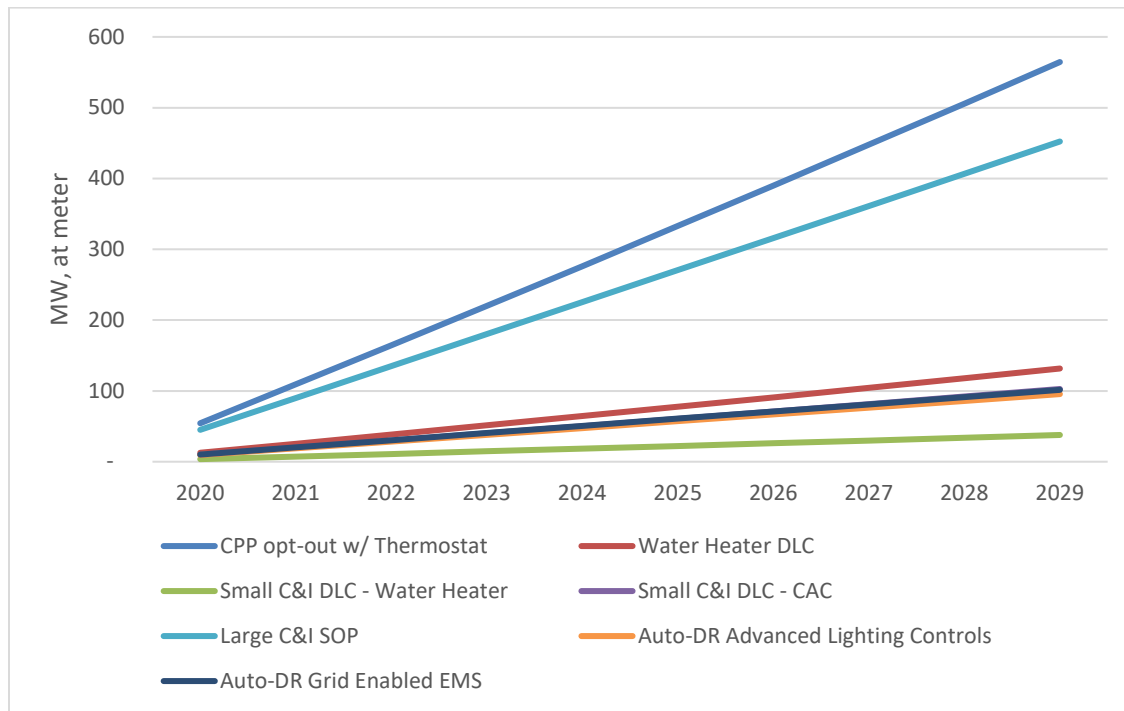


Figure 14. Demand response peak reduction.

Table 28. Demand response peak load reductions summary - MW, at meter

Measure	2020	2024	2029
CPP opt-out, thermostat	54	276	565
Residential water heater DLC	13	64	132
Small C&I water heater DLC	4	18	38
Small C&I CAC DLC	10	50	103
Large C&I SOP	45	225	452
Auto-DR advanced lighting controls	10	48	95
Auto-DR grid-enabled EMS	10	51	101
TOTAL	145	733	1,486
TOTAL Cost-effective	119	600	1,214

Table 29. Demand response peak load reductions summary – as a percent of total peak

Measure	2020	2024	2029
CPP opt out, thermostat	0.3%	1.5%	3.1%
Residential water heater DLC	0.1%	0.4%	0.7%
Small C&I water heater DLC	0.0%	0.1%	0.2%
Small C&I CAC DLC	0.1%	0.3%	0.6%
Large C&I SOP	0.2%	1.2%	2.5%
Auto-DR advanced lighting controls	0.1%	0.3%	0.5%

Measure	2020	2024	2029
Auto-DR grid-enabled EMS	0.1%	0.3%	0.5%
TOTAL	0.8%	4.0%	8.1%
TOTAL Cost-effective	0.6%	3.3%	6.6%

Program Budgets

Table 30 presents annual average program budgets and overall cost-effectiveness results for each program and scenario.

Table 30. Annual program costs, by year

Measure	2020 (million \$)	2024 (million \$)	2029 (million \$)
CPP opt out, thermostat	\$11.7	\$11.9	\$12.4
Residential water heater DLC	\$12.2	\$17.5	\$24.4
Small C&I water heater DLC	\$3.2	\$3.6	\$4.2
Small C&I CAC DLC	\$5.5	\$11.0	\$18.1
Large C&I SOP	\$1.5	\$6.9	\$13.7
Auto-DR advanced lighting controls	\$2.3	\$2.7	\$3.2
Auto-DR grid-enabled EMS	\$2.5	\$3.0	\$3.6
TOTAL	\$38.9	\$56.7	\$79.8
TOTAL Cost-effective	\$18.0	\$24.6	\$33.0

COMBINED HEAT AND POWER POTENTIAL

A CHP plant produces electricity at a commercial or industrial site while using the waste heat from the production of the electricity to meet the demand from a thermal load. Net efficiencies come from the recovered heat that is typically wasted in grid electricity production, and avoided transmission and distribution losses from delivering the electricity from the generator to the customer site.

Optimal's CHP analysis began by characterizing the costs, electricity generated, natural gas consumed, operation and maintenance costs, and measure lifetimes for different CHP types and kW output sizes. The CHP assumptions primarily came from the September 2017 version of the EPA's *Catalog of CHP Technologies*.¹⁵ The lifetimes came from the June 22, 2018, version of the New Jersey Board of Public Utilities, the New Jersey Clean Energy Program's *Protocols to Measure*

¹⁵ Combined Heat and Power (CHP) Partnership (U.S. EPA). *Catalog of CHP Technologies*.
<https://www.epa.gov/chp/catalog-chp-technologies>.

Resource Savings.¹⁶ These CHP costs, savings, and other attributes were entered into a cost-effectiveness screening model, using New Jersey's electric and gas avoided costs to determine which CHP types and sizes would be cost effective. They also offer the likely operating hours required for each of the types to be cost effective.

To get a sense of how many of each size of CHP units in New Jersey were feasible, we referred to the U.S. Department of Energy's (DOE) March 2016 *Technical Potential Analysis*.¹⁷ This technical potential analysis provided MW potential by six capacity ranges and by several industrial and commercial building types.

To estimate how much of the CHP technical potential would be cost effective, we referred to a previous analysis by Optimal Energy, Inc. for NYSERDA. The industrial and commercial economic potential MW as percentages of the technical potential MW were used as estimates for New Jersey.

From the previous cost-effectiveness analysis of the different CHP types and sizes, we chose specific CHP units to represent each kW size range from the U.S. DOE technical potential analysis for New Jersey.¹⁸ Dividing the kW capacity of the CHP unit representative of the kW size range by the economic potential MW provided an estimate of the number of CHP units. Using the MW by building type from the DOE technical potential, we estimated the number of economically potential CHP units by building type and kW size range. The economic potential total benefits, costs, and net benefits were then determined by multiplying the cost-effectiveness results for a single CHP unit by the number of CHP units. This was done for each CHP kW size range and building type.

Based on a consideration of market barriers related to finding suitable CHP applications, long-planning horizons, and reluctance to invest in an unfamiliar technology, we estimated that approximately 50 percent of the CHP economic potential would be achievable over the next ten years. Comparison data from other jurisdictions varies widely from a low of 17 percent estimated recently for Pennsylvania to highs of 77 percent for industrial and 71 percent for commercial in a study for NYSERDA.¹⁹

The CHP potential analysis results are presented in Table 31.

¹⁶ New Jersey Board of Public Utilities, *New Jersey Clean Energy Program: Protocols to Measure Resource Savings*. Revisions to FY2016 Protocols, June 29, 2016.

http://www.njcleanenergy.com/files/file/NJCEP%20Protocols%20to%20Measure%20Resource%20Savings%20FY17_FI_NAL.pdf.

¹⁷ U.S. Department of Energy, Combined Heat and Power (CHP) Technical Potential in the United States. 2016. <https://www.energy.gov/sites/prod/files/2016/04/f30/CHP%20Technical%20Potential%20Study%203-31-2016%20Final.pdf>.

¹⁸ U.S. Department of Energy, CHP Technical Assistance Partnerships. "The State of CHP: New Jersey." <https://www.energy.gov/sites/prod/files/2017/11/f39/StateOfCHP-NewJersey.pdf>.

¹⁹ Optimal Energy, "Potential for Energy Savings from Combined Heat and Power in New York State," prepared for NYSERDA, October 2014; and Pennsylvania Statewide Evaluation Team, "Distributed Generation Potential Study for Pennsylvania," prepared for Pennsylvania Public Utility Commission, March 2015.

Table 31. CHP potential results, cumulative, 2020 - 2029

Scenario	Unit	Cumulative annual 2029 potential	% of total load
Economic	GWh	11,355	14.1%
	GW	1.30	6.3%
	BBtu/yr	(48,761)	-9.7%
	Peak BBtu	(106.87)	N/A
Maximum achievable	GWh	4,168	5.2%
	GW	0.48	2.3%
	BBtu/yr	(17,518)	-3.5%
	Peak BBtu	(38.40)	N/A

All Potential Combined

Table 32 shows the combined ten-year potential for energy efficiency, demand response, and CHP, combined for electric energy and demand.

Table 32. Cumulative maximum achievable potential electric savings, by category

Potential component	Electric energy 2029 (MWh)	Savings (% of 2029 sales)	Electric demand 2029 (MW) ^a	Savings (% of 2029 demand) ^a
Energy efficiency	16,859,908	21%	4,162	20%
Demand response ^b	-	0%	1,361	7%
Combined heat and power	4,168,388	5%	476	2%
Total	21,028,296	26%	5,999	29%

^a The energy efficiency and demand response analyses were performed in isolation. So although the peak demand impacts are totaled in this summary table, in reality, they are not purely additive, because potential interactions between the two were not considered.

^b The demand response impacts presented in this table are quantified at generation.

POTENTIAL STUDY METHODS

Overview

Optimal applied a top-down analysis of efficiency potential, relative to the energy sales disaggregation for each sector, and merged it with a bottom-up measure level analysis of costs and savings for each applicable technology. This analysis approach involved several steps. The first is a prerequisite for building the base model used to run each scenario:

- Compiling and adjusting baseline energy forecasts. In this case, we used forecasts provided directly by the New Jersey utilities and adjusted them to add back the projected savings—assuming current, business-as-usual programs.
- Disaggregating adjusted energy forecasts by customer sector (residential, commercial and industrial), by segment (for example, building type), and end use (for example, lighting or cooling).
- Characterizing efficiency measures, including estimating costs, savings, lifetimes, and share of end use level forecasted energy use for each market segment.

To develop each scenario (*economic* and *maximum achievable*) required additional steps specific to the assumptions in each scenario:

- Building up savings by measure / segment, based on measure characterizations calibrated to total energy use
- Accounting for interactions between measures, including savings adjustments based on other measures, and ranking and allocating measures when more than one measure can apply to a particular situation
- Running the stock adjustment model to track existing stock and new equipment purchases, to capture the eligible market for each measure in each year
- Running the efficiency potential model to estimate the total potential for each measure / segment / market combination, to produce results of the potential
- Screening each measure / segment / market combination for cost effectiveness
- Removing failing measures from the analysis and rerunning the model to re-adjust for measure interactions

The study applied an SCT to determine measure cost effectiveness. The SCT considers the costs and benefits of efficiency measures from the perspective of society as a whole. Efficiency measure costs for market-driven measures represent the incremental cost difference between a standard baseline (non-efficient) piece of equipment or practice and the high efficiency measure. For retrofit markets, the full cost of equipment and labor was used because the base case assumes no action on the part of the building owner. Measure benefits are driven primarily by energy savings over the measure lifetime, but might also involve other more easily quantifiable benefits associated with the measures. This could be water savings, and operations and maintenance savings. The energy impacts might include multiple fuels and end uses. For example, efficient lighting reduces waste heat, which in turn reduces the cooling load, but increases the heating load. All of these impacts are accounted for in the estimation of a measure's costs and benefits over its lifetime.

There are two aspects of electric efficiency savings: annual energy and coincident peak demand. The former refers to the reductions in actual energy use, which typically drive the greatest share of electric economic benefits. However, because it is difficult to store electricity, the total reduction in the system peak load is also an important impact. Power producers need to

ensure adequate capacity to meet system peak demand, even if that peak is reached for only a few hours each year. As a result, substantial economic benefits can accrue from reducing the system peak demand, even if little energy and emissions are saved during other hours. The electric benefits reported in this study reflect both electric energy savings (MWh) and peak demand reductions (MW) from efficiency measures.

Analogously, gas efficiency provides distinct benefits from reducing annual load as well as peak day load. Historically, peak day load has not been seen as an important benefit, but recent constraints in gas transmission during the winter, especially in the Northeast and Mid-Atlantic states, have been changing that perception. We therefore account for benefits associated with lower peak day gas load by annualizing the marginal cost of service for gas and adding it to the commodity avoided cost. In other words, if the marginal cost of peak day gas were \$19 per therm, and on average there are 80 annual therms for every peak day therm, we would add approximately 23 cents per therm ($\$19 / 80 = \$0.234$) to the avoided commodity cost of natural gas. We derive this number from the marginal cost of service for Orange & Rockland Utilities service territory in New York State.

The primary scenario for the study was the maximum achievable, which reflects what could theoretically be accomplished by aggressive efficiency programs offering incentives equal to 100 percent of measure incremental costs. In order to estimate maximum achievable potential, we first have to estimate total economic potential. The general approach for these two scenarios differed as follows:

- **Economic potential scenario.** We generally assumed that any cost-effective measures would be immediately implemented for market-driven measures such as for new construction or major renovation, and natural replacement (“replace on failure”) measures, when the opportunity becomes available. For time-discretionary retrofit measures, we generally assumed that all or nearly all efficiency retrofit opportunities would be realized over the 10-year study period. Spreading out the retrofit opportunities results in a more realistic ramp up, providing a better basis of comparison for the achievable scenarios.
- **Maximum achievable scenario.** This scenario is based on the economic potential scenario, but accounts for real-world market barriers. We assumed that efficiency programs would provide incentives to cover 100 percent of the incremental costs of efficiency measures, so that program participants would have no out-of-pocket costs relative to standard baseline equipment. Further, this scenario assumes the program administrative costs associated with capturing this potential.

Finally, we note that the study scope was limited in a several important respects:

- We were not able to collect recent New Jersey primary data; the study thus relies primarily on existing available data, often from outside New Jersey (although heavily based on very recent and comprehensive primary data collected in New York and Pennsylvania)

- The research did not attempt to separately break out what portion of the potential might be captured by future changes in codes and standards that are not currently planned

Energy Forecasts

Electricity Forecast

The electric and natural gas use forecasts were developed primarily from the information provided by New Jersey utilities. In most cases, the sales forecasts were provided at the sector level, but in cases where sector designations were ambiguous, we relied on the sector breakout, by utility, from EIA. Where not provided for the entire analysis period (that is, from 2020 through 2029), the forecasts were extrapolated from average annual economic growth rates. Assumed savings from efficiency programming running at constant savings into the future were added back into the provided forecast. Current programs save approximately 0.7 percent of total electric sales and 0.2 percent of total gas sales. By adding these savings back to the forecast, the results of the study reflect a base case where no utility-run efficiency programs exist. The energy forecasts are presented in Appendix B.

Forecast Disaggregation by Segment and End Use

The source for the energy disaggregation varies by sector. The commercial disaggregation relies on data from multiple sources. First, total forecasted energy sales are divided across building types using data from the New York State Commercial Baseline Study for the Long Island-Hudson Valley region.²⁰ We separated building sales into end uses with data from EIA's CBECS for the Mid-Atlantic U.S. Census division. The residential energy sales were segmented into housing type (that is, single-family vs. multifamily), using data from the Pennsylvania Residential Baseline Study²¹—and further segmented into low-income and non-low-income residential categories, based on data from the 2009-2011 American Community Survey (U.S. Census). The EIA's 2015 Residential Energy Consumption Survey was then used to segment the sales by end use. Industrial sales were segmented into end uses from data in the Pennsylvania Non-Residential Baseline Study and the EIA's Manufacturing Energy Consumption Survey.

Sales were further disaggregated into those for new construction and renovated spaces and those for existing facilities. New construction activity was based on EIA *Annual Energy Outlook* projections of new versus existing facilities. No new construction was assumed for the industrial sector. The final sales disaggregation is presented in Appendix C.

²⁰ New York State Energy Research and Development Authority (NYSERDA), "Commercial Statewide Baseline Study of New York State." <https://www.nyserda.ny.gov/About/Publications/Building-Stock-and-Potential-Studies/Commercial-Statewide-Baseline-Study>.

²¹ NMR Group, Inc. "2018 Pennsylvania Statewide Act 129 Residential Baseline Study," prepared for the Pennsylvania Public Utility Commission, February 2019. http://www.puc.pa.gov/Electric/pdf/Act129/SWE-Phase3_Res_Baseline_Study_Rpt021219.pdf.

Measure Characterization

The first step for developing measure characterizations is to define the measures to be considered. Optimal shared the list of measures with BPU and stakeholders.

We included and characterized 341 measures for up to three applicable markets:

- **Market-driven, or lost opportunity measures** occur when the market is driving a purchase or sale of a new piece of equipment—for example, for regular, planned lighting change-outs, or when an existing air conditioning unit fails. For these measures, the applicable baseline is a new code-compliant unit, and not the existing conditions. The incremental cost is thus defined as the difference in cost between the efficient unit and a new code-compliant unit. Savings are calculated against code requirements, which are often more stringent than they were when the original equipment was installed.
- **Retrofit measures** happen when there is no driving market force mandating the purchase of new equipment. An example of this is when controls are added to an existing boiler, or when an efficient chiller is retired before the end of its useful life. For retrofit measures, since the counterfactual is no action, the initial cost is the full installed cost of the measure, and the savings are calculated from the existing equipment. In the counterfactual case, there is a time in the future when the existing equipment would have failed and needed replacement. We have assumed that there is a cost that would have been incurred in the future for that replacement, but that cost has not happened because of the retrofit. At the same time, there is often a shift in savings, as the savings are now calculated against the new code-compliant unit instead of the existing, replaced unit.
- **New construction measures** occur when a new construction or major renovation project is planned. These are really a type of market-driven measure, since new construction activity is driven by market forces. However, we separate out these measures since there are several holistic whole-building measures, such as integrated building design and commissioning, that apply only to new construction. Further, our model forecast separates out the energy use in new construction from that in existing buildings. For each measure, in addition to separately characterizing them by market, we also separately analyze measure / market combinations for each building segment (for example, small office, large office, industrial building, restaurant). This results in the modeling of more than 4,000 distinct measure / market / segment permutations for each year of the analysis. Savings for new construction are generally estimated as efficiency gains above code requirements, so savings estimates are generally lower than the estimated savings for retrofit measures.

The overall potential model relies on a top-down approach that begins with the forecast and disaggregates it into loads attributable to each possible measure. In general, measure characterizations include defining the following attributes for each combination of measure, market, and segment:

- Measure lifetime (both baseline and high efficiency options, if different)
- Measure savings (relative to baseline equipment)
- Measure cost (incremental or full installed, depending on market)
- Operations and maintenance (O&M) impacts (relative to baseline equipment)
- Water impacts (relative to baseline equipment)

Energy Savings

For each technology, we estimate the energy use of baseline and high efficiency measures, basing them primarily on engineering analysis. We rely heavily on the New Jersey Protocols, as well as best-practice technical reference manuals (TRMs) from other jurisdictions and Optimal Energy's measure characterization database. For more complex measures not addressed by the TRMs, we used case studies, meta-analyses, and engineering calculations. In each case, we sought and used the best available data about current baselines in New Jersey and the performance of high efficiency equipment or practices. The industrial analysis relied heavily on data from DOE Industrial Assessment Centers. We did not include any building simulation modeling or other sophisticated engineering approaches for establishing detailed, weather-normalized savings.

Costs

Measure costs are drawn from Optimal Energy's measure characterization database when no specific New Jersey costs were available. These costs are the result of long-term development and maintenance of data, which are regularly updated with the latest information, including recent or contemporaneous potential study work in Minnesota, New Orleans, New York, and Pennsylvania. Major sources include the New Jersey Protocols and Mid-Atlantic TRMs, baseline studies, incremental cost studies, direct research into incremental costs, and other analyses and databases that are publicly available. (See Information Review in Literature and Information Review for full information.)

Lifetimes

Where possible, we adopted measure lives from the New Jersey Protocols. Where unavailable, as with measure costs, we used Optimal's measure characterization database for measure lifetime information. These data have been developed over time, and were revised for this study, using the New Jersey Protocols.

Operations and Maintenance Impacts

O&M impacts are costs unrelated to energy costs of operations. They represent, for example, replacement lamp purchases for new high-efficiency fixtures, or changes in labor for servicing high-efficiency vs. standard-efficiency measures. High-efficiency equipment can often reduce O&M costs because of higher-quality components that require less-frequent servicing. On the other hand, some high-efficiency technologies require enhanced servicing, or have expensive components that need to be replaced prior to the end of the measures' lifetimes. For most measures, O&M impacts are very minimal, as many efficient and baseline technologies have the same O&M costs over time. Where they are significant, we base our estimates on our engineering and cost analyses, the New Jersey Protocols, and other available data.

We describe further aspects of measure characterization in the subsection on potential analysis, along with other factors that merge the measure level engineering data with the top-down forecast of applicable loads to each measure. Measure characteristics are presented in Appendix D.

Top-Down Method

The general approach for this study, for all market sectors, is “top-down.” We use as a starting point the actual forecasted loads for each sector. As described above, we then break these down into loads attributable to different categories of building equipment. In general terms, the top-down approach starts with the energy sales forecast and disaggregation, and determines the percentage of the applicable end use energy that might be offset by the installation of a given efficiency measure in each year. This contrasts with a “bottom-up” approach in which a specific number of measures are assumed to be installed each year.

Various measure-specific factors are applied to the forecasted building type and end use sales by year, to derive the potential for each measure for each year in the analysis period. This is shown below in the following central equation:

$$\begin{array}{|c|} \hline \text{Measure} \\ \hline \text{savings} \\ \hline \end{array} = \begin{array}{|c|} \hline \text{Segment} \\ \hline \text{/ end use} \\ \hline \text{/ year} \\ \hline \text{kWh} \\ \hline \text{sales} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Applicability} \\ \hline \text{factor} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Feasibility} \\ \hline \text{factor} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Turnover} \\ \hline \text{factor} \\ \hline \text{(replace-} \\ \hline \text{ment} \\ \hline \text{only)} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Not-} \\ \hline \text{complete} \\ \hline \text{factor} \\ \hline \text{(retrofit} \\ \hline \text{only)} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Savings} \\ \hline \text{fraction} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{Net} \\ \hline \text{penetration} \\ \hline \text{rate} \\ \hline \end{array}$$

Where:

- **Applicability** is the fraction of the end use energy sales (from the sales disaggregation) for each building type and year attributable to equipment that could be replaced by the high-efficiency measure. For example, for replacing office interior linear fluorescent lighting with a higher-efficiency LED technology, we would use the portion of total office building interior lighting electrical load attributable to linear fluorescent lighting.
- **Feasibility** is the fraction of end use sales for which it is technically feasible to install the efficiency measure. Numbers less than 100 percent reflect engineering or other technical barriers that would preclude adoption of the measure. Feasibility is not reduced for economic or behavioral barriers that would reduce penetration estimates. Rather, it reflects technical or physical constraints that would make measure adoption impossible or ill advised. An example might be an efficient lighting technology that cannot be used in certain low-temperature applications.
- **Turnover** is the percentage of existing equipment that will be naturally replaced each year due to failure, remodeling, or renovation. This applies to the natural replacement (“replace upon failure”) and renovation markets only. In general, turnover factors are assumed to be 1 divided by the baseline equipment measure life (for example, assuming that 5 percent or 1/20th of

- existing stock of equipment is replaced each year for a measure with a 20-year estimated life).
- **Not-complete** is the percentage of existing equipment that already represents the high-efficiency option. This applies only to retrofit markets. For example, if 30 percent of current single-family homes already have learning thermostats, then the not-complete factor for residential thermostats would be 70 percent ($1.0 - 0.3$), reflecting that only 70 percent of the total potential from thermostats remains.
 - **Savings fraction** represents the percent savings of the high-efficiency technology, compared to the energy use from either existing stock or new baseline equipment for retrofit and non-retrofit markets, respectively. Savings fractions are based on individual measure data and assumptions about existing stock efficiency, standard practice for new purchases, and high-efficiency options.
 - **Baseline adjustments** shift the savings fractions downward in future years for early-retirement retrofit measures, to account for the fact that newer, standard equipment efficiencies are higher than older, existing-stock efficiencies. We assume average existing equipment being replaced for retrofit measures is at 60 percent of its estimated useful life. The baseline adjustment also comes with a cost credit to reflect the standard equipment that the participant would have had to install to replace the failed unit.
 - **Annual net penetrations** are the difference between the base case measure penetrations and the measure penetrations that are assumed for an economic potential. For the economic potential, it is assumed that 100 percent penetration is captured for all markets, with retirement measures generally being phased in and spread out over time to reflect resource constraints such as contractor availability. The product of all of these factors is the total potential for each measure permutation. Costs are then derived from the “cost per energy unit saved” for each measure, applied to the total savings produced by the measure. The same approach is used for other measure impacts—for example, O&M savings.

These factors are presented in Appendix E.

Cost-Effectiveness Analysis

Cost-Effectiveness Test

This study applies the SCT as the basis for excluding non-cost-effective measures from the analysis of potential savings. The SCT considers the costs and benefits of efficiency measures from

the perspective of society as a whole. The principles of these cost tests are described in the *California Standard Practice Manual*.²²

Table 33 provides the costs and benefits from the perspective of each of the cost-effectiveness tests.

Table 33. Overview of cost-effectiveness tests

Monetized benefits / costs	UCT	SCT
Measure cost (incremental over baseline)		Cost
Program administrator incentive costs	Cost	
Program administrator non-incentive program costs	Cost	Cost
Energy & electric demand savings	Benefit	Benefit
Fossil fuel savings (increased use)	Benefit	Benefit (cost)
O&M savings		Benefit
Water savings		Benefit
Deferred replacement credit ^a		Benefit
Externalities		Benefit

^a For early-retirement retrofit measures, the deferred replacement credit accrues when the existing equipment would have needed replacement. The equipment's replacement cycle has been deferred due to the early replacement.

Discounting the Future Value of Money

Future costs and benefits are discounted to the present using a real discount rate of 4.74 percent, estimated from the nominal discount rate of 7 percent used by the Rutgers Center for Green Building for the New Jersey Clean Energy Program (NJCEP) cost-benefit analyses,²³ and a 2.16 percent long-term rate of inflation.²⁴ For discounting purposes, we assume that initial measure costs are incurred at the beginning of the year, whereas annual energy savings are incurred halfway through the year.

Avoided Energy Supply Costs

Avoided energy supply costs assess the economic value of energy savings (or the costs of increased consumption). Developing avoided costs specific to energy efficiency in New Jersey was outside the scope of this study; however, we relied on the best available data to prepare

²² Governor's Office of Planning and Research, State of California, *California Standard Practice Manual: Economic Analysis of Demand-Side Programs and Projects*, July 2002. http://www.calmac.org/events/SPM_9_20_02.pdf.

²³ Rutgers, "Draft Energy Efficiency Cost-Benefit Analysis," 2019.

²⁴ Real discount rate = (nominal discount rate – inflation rate) / (1 + inflation rate), or in this case: (0.7 - .0216) / (1 + .0216), which equals 4.74 percent.

values that represent reasonable estimates without a substantial investment of time and resources.

We adopted the electric energy, capacity, and transmission and distribution and gas avoided costs estimated by Rutgers University for the BPU, and used in the NJCEP cost-benefit analyses. As noted above, Rutgers has not developed peak-day avoided costs for gas. We estimated an annualized marginal cost of service for gas for Orange & Rockland New York State service territory and added it to the commodity avoided cost. Appendix F presents avoided costs.

Electric Load Shapes

Electric energy load shapes are used to divide annual efficiency measure kWh savings into the energy costing periods of the avoided costs. End use specific load shapes were not available for New Jersey. For this project, load shapes have been based on 2002 Itron eShapes 8760 load profile data for New York. Although the selected load shapes are based on weather stations from a different state, they provide the nearest and best data available. For the purposes of this study, it is unlikely that the load shapes in New Jersey would differ significantly from the load shapes in downstate New York.

The eShapes 8760 load profile data provide information on electric energy use, by sector, and for various end uses and building types. The data were based on approximately 20,000 building audits performed nationwide, primarily in the early 1990s. More than half of the roughly 20,000 audits were performed on site. Building simulations were then performed with proprietary modeling software for many of the audited buildings, to develop prototype buildings calibrated to the measured data for individual sites. The electric load shapes used for this study are presented in Appendix G.

Economic Potential Analysis

The top-down analysis, along with all the data inputs, produce the measure-level potential, with the economic potential being limited to installation of cost-effective measures. However, the total economic potential is less than the sum of each separate measure potential. This is because of interactions between measures and competition among measures. Interactions result from installation of multiple measures in the same facility. For example, a building insulation project reduces the heating load. If a high-efficiency furnace is subsequently installed, savings from the furnace will be lower because the overall heating needs of the building have been lowered. As a result, interactions between measures should be taken into account to avoid over-estimating savings potential. Because the economic potential assumes all possible measures are adopted, interactions assume every building installs all applicable measures. Interactions are accounted for by ranking each set of interacting measures by total savings, and assuming the greatest savings measure is installed first, followed by the next-highest savings measure.

Measures that compete also need adjustment. These are two or more efficiency measures in the same application, but only one can be chosen. An example is choosing between installing an air source heat pump or an efficient central air conditioner, but not both. In this case, the total penetration for all competing measures is 100 percent, with priority given to the measures based

on ranking them from highest savings to lowest savings. If the first measure is applicable in all situations, it would have 100 percent penetration and all other competing measures would show no potential. On the other hand, if the first measure could be installed in only 50 percent of opportunities, then the second measure would capture the remaining opportunities.

To estimate the economic potential, we generally assumed 100 percent installation of market-driven measures (natural replacement, new construction / renovation), constrained by measure cost effectiveness and other limitations, as appropriate, such as to account for mutually exclusive measures.

Implementation of retrofit measures was considered to be resource-constrained. That is, it would not be possible to install all cost-effective retrofit measures at the same time. The retrofit penetration rates are generally assumed to be 10 percent of the market for each year in the analysis period.

Maximum Achievable Potential Analysis

For the maximum achievable potential scenario, we did not attempt to design detailed programs to group measures. Instead, we make the simplifying assumption that the programs will be well designed and able to capture the amount of market adoption. Thus, this study can help determine the amount of efficiency available, and which measures might offer the most opportunity. However, it is not a detailed roadmap on how to group these measures into programs or how to best promote and market the programs to customers.

Measure Incentives and Penetration Rates

Measure penetration rates, or adoption rates, are affected by a broad variety of factors, depending on the measure: for example, the market barriers that apply and to what degree, the program delivery strategy, incentive levels, marketing and outreach, and technical assistance to installers. Although penetration rates will generally increase with increased spending, how the spending is applied can have a huge impact on actual participation rates. There is large uncertainty inherent in developing penetration rates, and self-report surveys are often not a reliable indicator of eventual adoption. Further, these rates have an outsized effect on the final efficiency available in the maximum achievable scenario. Appendix H contains penetration rates for both the economic and maximum achievable scenarios.

Non-Incentive Program Budgets

The costs of implementing efficiency programs involve both the cost of the efficiency measures themselves and the associated administrative costs for marketing, customer interactions, incentive and rebate processing, evaluation activities, and other features of an efficiency program. To estimate these costs for inclusion in both program budgets and cost-effectiveness testing, we relied on actual program data from best-practice efficiency portfolios. The estimates are specific to our major program categories (for example, residential new construction, or commercial equipment replacement), because different program types and delivery models can have different administrative needs.

We sourced these data from recent program performance for utilities in Massachusetts. These portfolios are generating savings substantially greater than New Jersey's current programs, and are likely to be a better predictor of the administrative costs needed to achieve the level of savings found by our analyses. The average administrative costs for the various program types range from 23 percent to 40 percent of total program costs.

SECTION 2: LITERATURE AND INFORMATION REVIEW

LITERATURE REVIEW

Understanding Barriers

Implementation of efficient technologies and behavioral changes necessary to achieve energy savings is far below what would be expected given the anticipated economic and social benefits. First used by Hirst and Brown (1990), the *energy efficiency gap* is a term that refers to the underinvestment in energy efficiency relative to the cost-effective potential.²⁵ Households, governments, businesses, and manufacturers often fail to use cost-effective technologies to reduce energy consumption, despite their technical feasibility.

To explain the energy efficiency gap, many researchers have sought to identify the market barriers and market failures that prevent people and organizations from achieving optimal levels of energy efficiency. Although many different frameworks have been described, there appears to be general consensus in the literature about the types of barriers that affect energy efficiency.

The following sections discuss several other common barriers and some of the solutions that can overcome them. These barriers involve split incentives, lack of information, transaction costs, financial constraints, and lack of availability. Although this list is not exhaustive, it addresses the most frequently cited and most important to overcome.²⁶

Split Incentives and the Role of Agents

Split incentives occur when the benefits and costs of investing in energy efficiency are divided between two parties or agents. Often referred to as the *principal-agent* problem, this challenge emerges because the party responsible for making energy efficiency investment decisions (the agent) is not the same party that benefits from the investment (the principal). This barrier is frequently described with regard to the rental property market. For example, in the residential sector, approximately 80 percent of renters are responsible for paying their own utility costs.²⁷ Another less frequently discussed example of a principal-agent challenge relates to larger customers in the commercial and industrial (C&I) sectors. In that market, the employees who have the power to make capital investment decisions might not be the same as those who manage the operations and maintenance of a facility and thus understand its energy use. Capital-investment decision makers also typically do not have controlling facility energy consumption as part of their job descriptions.

Solutions to this problem classically involve aligning owner and renter interests. One way this can be accomplished is through “green leases” that share the savings from efficiency

²⁵ Hirst, E. and Brown, M. “Closing the Efficiency Gap: Barriers to the Efficient Use of Energy.” *Resources, Conservation and Recycling* 3(4), 267-281. 1990.

²⁶ For a broader discussion of market barriers, see: Eto, Prahl, and Schlegel, Lawrence Berkeley National Laboratory, “A Scoping Study on Energy-Efficiency Market Transformation by California Utility DSM Programs.” 1996.

²⁷ Harvard Joint Center for Housing Studies. “America’s Rental Housing: Meeting Challenges, Building on Opportunities.” 2011.

investments between owners who charge slightly higher rents in exchange for lower tenant utility bills resulting from upgrades. Using building codes and equipment standards can also align incentives and ensure that rental property owners who invest in reducing occupant energy consumption are not put at a competitive disadvantage.

Lack of Information / Uncertainty

The quantity and complexity of information needed to make informed decisions about investments in energy efficiency make the information barrier a significant challenge to overcome. Customers might not be aware of the building's performance and the opportunities for energy savings. Studies have suggested, for example, that only a small percentage of U.S. households are aware of how much energy they consume and how they can best reduce their energy use.²⁸ Additionally, uncertain information can cause customers to consider investments in energy efficiency to be risky. For example, commercial customers could worry that the performance and quality of an unfamiliar technology might negatively affect their business.

Education and outreach are an obvious solution to barriers related to information and uncertainty. Mass marketing, targeted marketing, and one-on-one discussions with customers can all play a role. Providing comparative information and making energy consumption data widely available can also help close the information gap. Benchmarking can help customers understand where their energy use ranks among similar customers; labeling and disclosure requirements inform prospective owners and occupants of a building's energy performance.

Transaction Costs

One barrier closely related to the information barrier involves transaction costs. Even when customers know sufficient information is available to make decisions about investing in efficiency, acquiring that information can be burdensome in terms of time, money, or both. Customers must seek out information to identify and weigh their options, and subsequently hire and manage professionals to complete the work. Such actions require effort that is above and beyond what they would likely undertake to maintain their own current buildings. In the face of transaction costs, maintaining the status quo is usually the easier and more comfortable option.

For customers who can engage in some level of discussion and analysis about efficient investments, technical assistance helps overcome the initial hurdle of knowing how to analyze options and where to find relevant data. Smaller customers typically have fewer available resources to address efficiency. However, the need for understanding and transaction time can be nearly eliminated through direct-installation programs.

Financial Constraints

Many energy efficiency measures can save customers money in the long run. But implementing those measures often requires an additional investment. Customers receive the benefits of efficiency over time, but the majority of the costs for these measures is required at the start of the project. This barrier is exacerbated for technologies such as CHP, where initial system

²⁸ Ehrhardt-Martinez, K. and Laitner, J., Editors, "People-Centered Initiatives for Increasing Energy Savings." 2010.

costs might be prohibitively high when weighed against other demands for capital.²⁹ Many customers weigh investments in terms of payback periods and place greater value on first costs than on the life-cycle costs of the investment. However, even customers who recognize the lifetime savings potential from efficiency might lack the capital or borrowing power to make the initial investment.

Financial incentives in the form of direct payments to customers who invest in efficiency or reduced prices on efficient equipment or services have been the mainstay of most efficiency programs for many years. These can be even more successful if paired with efforts to increase the availability of and access to capital to cover the remaining cost of efficiency upgrades through financing programs.

Lack of Availability

Customers with adequate resources and knowledge to make good efficiency investment decisions might not be able to improve their efficiency of their buildings if products or knowledgeable contractors are not available. In some instances, suppliers or distributors might exhibit market power and dominate supply channels, preventing or constraining competitors from penetrating the market.³⁰ And even in a competitive market, when newer, more efficient products are not available from suppliers and distributors, customers might not have access to the products when they need them.

Working with entities throughout the supply chain, rather than solely at the retail level, is quickly becoming a best practice for quickly transforming markets for efficient equipment. Such “midstream” and “upstream” approaches are all premised on the notion that applying leverage higher in the supply chain—where dozens, hundreds, or even thousands of units are involved in transactions—is a more effective strategy than attempting to reach customers one at a time.

Successful Program Designs: Massachusetts as a Case Example

Identifying program designs and approaches that have been successfully implemented by other program administrators is a good starting point when developing a new portfolio. These programs can then be adapted to local conditions to ensure they can be effectively implemented. Effective programs usually involve a coordinated approach that builds capacity within the marketplace and awareness among consumers across several years, thereby reaching aggressive savings levels cost effectively. Moreover, leading program portfolios ensure that programs are offered to all customer classes, often with dedicated strategies for reaching hard-to-serve markets such as low-income and small business customers. Since 2011, Massachusetts has been recognized as the Number 1 state for efficiency by the American Council for an Energy-Efficient Economy (ACEEE). This recognition is largely due to the comprehensive and coordinated Mass Save® program portfolio implemented by the Commonwealth’s seven efficiency program

²⁹ Chittum, A. and Kaufman, N. “Challenges Facing Combined Heat and Power Today: A State-by-State Assessment.” American Council for an Energy-Efficient Economy. September 2011.

³⁰ Sullivan, “Behavioral Assumptions Underlying Energy Efficiency Program for Businesses.” February 2009.

administrators. The sections below describe common program types found in many of the country's leading states for energy efficiency, with specific examples provided from the Massachusetts 2016-2019 program portfolio.³¹ Opportunities for leveraging federal programs are then explored.

Residential

In successful energy efficiency program portfolios, residential program designs comprehensively respond to the needs of homeowners and renters. All key savings opportunities from simple lighting improvements to whole-house retrofits are addressed through integrated and mutually supporting programs. These programs engage and motivate customers to participate by removing barriers and by offering technical support and financial incentives. In Massachusetts and elsewhere, the residential program strategies tend to fall into three primary categories: whole-house programs, efficient products, and behavior modification. These strategies are more fully described below.

Whole-House Programs

Whole-house programs provide comprehensive energy upgrades, addressing all primary efficiency opportunities within a home. These involve improving insulation and reducing air leakage in walls, windows, and ceilings, and increasing the efficiency of the mechanical and electrical systems that heat and cool the indoor environment, heat water for domestic purposes, and produce light. A common feature of whole-house programs is that they are “fuel-neutral,” addressing savings opportunities for electricity, gas, and / or bulk-delivered oil and propane. Moreover, they tend to provide services for both retrofit and new construction projects.

Retrofits. Whole-house retrofit programs usually involve a home energy audit and recommendations for energy-saving measures, along with financial incentives for implementing these recommendations. In Massachusetts, the Home Energy Services (HES) retrofit program uses a contractor-driven model, where contractors sell their services to homeowners. Certified technicians install efficiency improvements while addressing the integrity of the building and health and well-being of the occupants. Customers receive a Home Energy Assessment, an in-home visit involving diagnostic testing, and installations of instant energy-saving measures with education and direction on additional energy-saving opportunities, rebates, and connection to appropriate service providers. The program also provides connections to the special financing, which offers zero-percent-interest financing of loans from \$500 - \$25,000 with terms from 2 to 7 years for approved customers.

New Construction. Residential new construction whole-house programs usually work with builders, contractors, architects, developers, code officials, and suppliers to promote the design and construction of efficient new homes. Similar to whole-house retrofit programs, successful new construction programs address all key end uses and building systems. Program incentives are usually tiered, with higher incentives available for greater levels of efficiency. In

³¹ Mass Save, “2016 – 2018: Massachusetts Joint Statewide Three-Year Electric and Gas Energy Efficiency Plan. October 30, 2015. <http://ma-eeac.org/wordpress/wp-content/uploads/Exhibit-1-Gas-and-Electric-PAs-Plan-2016-2018-with-App-except-App-U.pdf>.

Massachusetts, the Residential New Construction core initiative strives to increase the construction of energy-efficient homes that exceed the Massachusetts User Defined Reference Home (UDRH), a baseline of the efficiency of homes across the state. The initiative provides builders and other trade allies with training, targeted incentives, and associated technical assistance to increase adoption of high-efficiency technologies and construction practices in the residential market.

Multifamily. Massachusetts also provides a multifamily-specific initiative under its whole-house program. Providing comprehensive energy efficiency services to people who live in apartments can be difficult and is often overlooked by efficiency programs. At the root of this phenomenon are split incentives where, in many cases, the occupants in an apartment building receive heating and cooling from a central system for which the property owner pays the bills. This challenge is found throughout multifamily housing, from subsidized affordable housing to market rate luxury apartments. It also exists in new construction, where the developer takes on the added costs of incorporating efficiency measures into new buildings, and in retrofits.

To address this challenge, multifamily programs comprehensively provide energy efficiency services in this sector, and work with property owners, managers, and occupants to address the full spectrum of energy efficiency opportunities. The Massachusetts Multifamily Retrofit core initiative provides comprehensive energy efficiency services to market rate properties with five or more dwelling units. The initiative provides energy assessments that identify energy-saving opportunities throughout the building. The program creates an “energy action plan” for each facility, describing all energy-saving opportunities regardless of fuel source. Incentives might involve lighting, shell improvements, heating, cooling, and water heating equipment and controls.

Income-Eligible. Program administrators often offer programs specifically for income-eligible customers to reach those who might be unlikely or unable to participate in the residential programs described above. The goal of income-eligible programs is to assure that comprehensive efficiency services are provided to as many residents who need them as possible, regardless of their ability to afford them. The best income-eligible energy efficiency programs are deeply connected with local service providers delivering support to income-eligible people. This can mean that the program itself is completely delivered as an add-on to the local Weatherization Assistance Program (WAP), or it can mean that stand-alone efficiency program services are well coordinated with the broad range of income-eligible service providers. Services might involve comprehensive energy assessments (energy audits) and full-cost incentives for improvements related to building shell improvements, heating and cooling system efficiency improvement, appliance efficiency improvements, water heating efficiency improvements and lighting efficiency improvements. These services require no out-of-pocket costs from eligible participants) Distinct initiatives might target single- and multifamily properties.

In Massachusetts, customers living in single-family homes who meet income eligibility requirements receive an in-home energy assessment from local Community Action Programs (CAPs). The assessment evaluates the building shell, mechanical equipment, and appliances, as well as home health and safety. The lead vendor / CAP agency then arranges for all applicable measures and services to be installed by qualified contractors. The initiative piggybacks on the

current Massachusetts Department of Housing and Community Development WAP. The income eligibility multifamily initiative targets properties in which at least 50 percent of the occupants are at or below 60 percent of the state median income. It provides up to 100 percent of the funding for cost-effective projects.

Efficient Products

Efficient-products programs work with manufacturers and retailers to promote the stocking, marketing, and sale of efficient residential lighting, appliances, consumer electronics, and domestic hot water (DHW) and HVAC equipment to consumers. Efficient products programs complement whole-house programs by optimizing the efficiency of products that residential customers buy through contractors, or which are sold to them directly through hardware and big-box stores. These programs can provide financial incentives in the form of either traditional mail-in rebates or upstream buydowns. Upstream program strategies provide incentives to retailers, manufacturers, and distributors for selling specific efficient products at below-market prices. This allows customers to pay lower prices for efficient products at the point of sale, reducing the administrative burden for both customers and program administrators. Efficient products programs might also train contractors to support proper installation of efficient equipment.

In Massachusetts, the Residential Products Program incentivizes efficient lighting, heating and cooling equipment, and appliances and electronic products with upstream incentives, mail-in rebates, and an online catalog to deliver lower product costs to customers and drive increased customer acceptance and sales.

Behavior Modification

Many residential sector portfolios also involve a behavior modification program. Although behavior programs are sometimes considered whole-house programs, their approach differs from the financial incentive-based program models used for the other whole-house programs. Behavior programs typically provide home energy reports (HERs) to customers, to motivate them to reduce their energy use through behavioral change. HERs can be provided through either regularly mailed (typically monthly or bimonthly) hard-copy reports, web-based reporting, or a combination of the two. These reports provide historic energy use patterns, benchmark the customer's energy use against other customers with similar home features and / or demographics, and provide energy efficiency recommendations tailored to the customer and to the time of year. Some of these actions are behavioral (for example, adjusting thermostat settings, or turning off unused lights), whereas others might involve improvements to equipment or building components, with the aim of driving customers to more fully participate in other program offerings.

There are several vendors that can design and deliver behavioral programs to program administrators (for example, Opower). In Massachusetts, the HER program assigns qualifying customers to treatment and control groups. The treatment groups receive ongoing mailed reports that compare their energy use against their historic use, and the energy use of similar homes in the area. Treatment group customers also have access to an online portal. Control groups are used for evaluation.

Commercial & Industrial

The commercial and industrial sectors (C&I) are far more diverse than the residential sector. For example, they encompass small, independent retail stores and very large industrial facilities. Successful program portfolios often include three broad programs in the C&I sector. These align with the most fundamental differences in the decision processes of this diverse array of customers. The first fundamental distinction in the decision process for the C&I sector is between retrofit and “lost opportunity.” This distinction recognizes a fundamental difference in the economic calculus for evaluating efficiency projects as part of new construction, or where existing equipment needs to be replaced (lost opportunity), and for retrofit projects, where the existing equipment is in working condition and the project is motivated primarily by the energy savings (retrofit). The next distinction is between small and large customers. Each should be addressed by its own program. Each has a different profile relating to facility characteristics, equipment types, purchasing processes, financial situation, and owner familiarity with energy efficiency. Further, certain program approaches might not be cost effective for both segments.

The portfolio of efficiency programs directed at the C&I sector often consists of large umbrella programs with several different strategies or initiatives aimed at capturing savings from different segments of this diverse group of customers. The section below discusses the major program strategies included in each of the umbrella programs.

Lost Opportunity

A lost-opportunity program applies when the customer is already purchasing new equipment, and incentives might need to offset only part or all of the cost difference between standard equipment and efficient equipment. That is, it is not based on the full installed cost of the equipment. Lost-opportunity programs cover all end uses and technologies that produce cost-effective energy savings, and encompasses many different delivery models and services. These programs usually involve design and technical assistance for new construction and replace-on-failure projects, standard prescriptive incentives, and upstream incentives for common lighting measures.

In Massachusetts, the C&I New Construction program has two major initiatives: C&I New Buildings & Major Renovations and C&I Initial Purchase & End of Useful Life. In the New Buildings & Major Renovations initiative, developers and building owners who are pursuing major renovations or additions receive a menu of efficiency services and incentives designed to meet their unique objectives and investment criteria. This can add value, regardless of where they are in the design and construction process. Provided services range from expert design and engineering assistance and whole-building incentive levels to similar assistance within particular facility systems, components, or processes; to prescriptive incentives for pre-selected measures. The Initial Purchase & End of Useful Life initiative encourages customers purchasing new equipment, or replacing equipment that has reached end of useful life, to choose the most efficient option.

Large-Business Retrofit

Large-business retrofit programs capture energy savings from existing large C&I customers. These programs encourage early replacement of inefficient equipment before it stops working, adding or improving controls or sensors to lower the energy use of existing systems, and helping businesses improve operational practices and optimize systems to lower energy use. Large business retrofit programs can cover all end uses and technologies that produce cost-effective energy savings and encompass many different delivery models and services. Similar to lost-opportunity programs, large-business retrofit programs use delivery strategies such as account management, prescriptive incentives, custom incentives, and technical and design assistance.

The Massachusetts C&I Retrofit Program targets customers that have functioning, but inefficient, equipment in their facilities or buildings that are not code compliant. These can be upgraded to higher levels of efficiency without undergoing major renovation. The main elements of the program are the prescriptive and custom path options. The prescriptive path provides fixed incentives for purchase and installation of specified measures. The custom path relates to processes or equipment unique to a customer's facility and / or operational requirements, and requires site-specific engineering analyses to determine costs and benefits.

Many C&I subsectors have very low participation rates, unless the program offers specialized outreach to address their specific needs. Once a program has been running for a couple of years, effective large C&I retrofit programs dedicate resources to pursuing projects in segments such as municipalities, hospitals, commercial real estate, and food and hospitality. This often takes the form of marketing campaigns and initiatives targeted directly to the specific needs of each segment, and can involve specialized research to determine the barriers that are preventing each segment from participating in efficiency programs and how to best reach them. For example, the Massachusetts Retrofit program targets large customers; cities, towns and special purpose districts; and commercial non-profits through distinct marketing strategies.

Small-Business Retrofit

Small businesses are typically constrained by both staff time and financial resources. This makes it hard to invest the time and money in identifying and installing efficiency upgrades. Further, the small amount of per-customer energy use in this segment means that the program administrators cannot cost-effectively spend too much time on each facility. Small-business retrofit programs often address these problems by combining free on-site audits with high financial incentives and easy application processes to achieve significant savings from high efficiency lighting and other easy-to-install efficiency measures. The Massachusetts Small Business initiative provides full-service delivery for small-business customers, from identifying energy savings opportunities through an audit to turnkey measure installation and financing of the customer's share of the project cost.

Leveraging Federal Programs

In some instances, federal energy efficiency, load reduction or distributed energy resources (DER) initiatives and programs can be used to help fund and support state-level initiatives. For

example, the U.S. Department of Energy provides WAP grants to all 50 states for delivering local energy efficiency services to low-income households.

In previous years, federal tax credits could also be combined with utility incentives to encourage customers to participate in efficiency programs. Although utility incentives help to reduce the cost of efficiency upgrades, they usually do not cover the full amount. Federal incentives were used to fund the additional incremental cost of an efficiency project. Previously available federal tax credits for residential energy efficiency and for builders of energy-efficient homes, as well as tax deductions for energy efficiency upgrades to commercial buildings, have all sunsetted.³² However, it is possible that future legislation will reinstate or create tax credits that can once again be leveraged by states and utilities.

Establishing Goals

Statutory Mandates

The New Jersey Clean Energy Act of 2018 provides

3. a. No later than one year after the date of enactment of P.L.2018, c.17 (C.48:3-87.8 et al.), the Board of Public Utilities shall require each electric public utility and gas public utility to reduce the use of electricity, or natural gas, as appropriate, within its territory, by its customers, below what would have otherwise been used. For the purposes of this section, a gas public utility shall reduce the use of natural gas for residential, commercial, and industrial uses, but shall not be required to include a reduction in natural gas used for distributed energy resources such as combined heat and power.

Each electric public utility shall be required to achieve annual reductions in the use of electricity of two percent of the average annual usage in the prior three years within five years of implementation of its electric energy efficiency program. Each natural gas public utility shall be required to achieve annual reductions in the use of natural gas of 0.75 percent of the average annual usage in the prior three years within five years of implementation of its gas energy efficiency program. The amount of reduction mandated by the board that exceeds two percent of the average annual usage for electricity and 0.75 percent of the average annual usage for natural gas for the prior three years shall be determined pursuant to the study conducted pursuant to subsection b. of this section until the reduction in energy usage reaches the full economic, cost-effective potential in each service territory, as determined by the board.

Industry Norms

ACEEE each year publishes its State Energy Efficiency Scorecard. One of the many metrics reported in the Scorecard is state energy efficiency resource standards (EERS). ACEEE offers data on industry standards and information related to state energy efficiency policies and programs.

³² https://www.energystar.gov/about/federal_tax_credits

However, it should be noted that ACEEE has a relaxed definition of an EERS to acknowledge states with clearly established regulatory targets, but which might not actually have traditional EERS. Further, there is a significant lag in ACEEE's reporting, and occasional instances in which the reported information is not comprehensive. In addition, the percent of load achievements for electricity and natural gas reported by ACEEE is, in many cases, lower than the actual savings being achieved by the major utilities in the state. This is because ACEEE considers savings as a percent of entire statewide load, but almost all states have municipal and / or cooperative utilities that do not implement efficiency programs, or do so only minimally. Many states also have some form of "opt-out" mechanism that allows some of the largest customers not to contribute to efficiency programs, or excludes them from participation criteria. Finally, although the Scorecard reports EERS targets in savings as a percent of retail energy sales, not all states actually set their savings targets to this metric.³³

For electricity savings goals, ACEEE's latest report shows that seven states have annual electric savings targets at or above 2 percent: Massachusetts (2.9 percent), Rhode Island (2.6 percent), Arizona (2.5 percent), Maine (2.4 percent), Vermont (2.1 percent), New York (2.0 percent), and Maryland (2.0 percent).³⁴ Another six states have targets of 1.5 to 1.99 percent: Illinois, Colorado, Connecticut, Minnesota, New Jersey, and Washington.³⁵

For natural gas, ACEEE reports that eight states have annual savings goals at or above the 0.75 percent level that New Jersey has specified in law: Hawaii (1.4 percent), Arkansas (1.2 percent), Nevada (1.1 percent), Michigan (1.0 percent), New Hampshire (1.0 percent), Pennsylvania (0.8 percent), and Wisconsin (0.8 percent). Another two states have goals that are 0.5 to 0.75 percent: Iowa (0.6 percent) and New Mexico (0.6 percent).³⁶ Three additional states that have policies for all cost-effective efficiency or a target significantly higher than 0.75 percent are Massachusetts, Rhode Island, and New York.³⁷

ACEEE also reports on the level of savings achieved for each state. In the 2018 State Scorecard, three states were reported to have achieved annual savings in excess of 2 percent: Vermont (3.33 percent), Rhode Island (3.08 percent), and Massachusetts (2.57 percent). Another two states were

³³ For example, Illinois does not set a fixed annual standard, but has a long-term cumulative savings goal. As of January 2018, Commonwealth Edison (Illinois' largest utility) annual goals of 2.3 percent of load, which are expected to stay in that range through 2030, to achieve the mandated 30 percent cumulative savings by 2030.

³⁴ New York has been pursuing approximately 2.0 percent annual savings; however, Governor Andrew Cuomo announced a new efficiency policy mandating roughly 3 percent per year. This policy has yet to be fully implemented. See: <https://www.governor.ny.gov/news/governor-cuomo-announces-new-energy-efficiency-target-cut-greenhouse-gas-emissions-and-combat>.

³⁵ Berg, W., S. Nowak, G. Relf, S. Vaidyanathan, E. Junga, M. DiMascio, and E. Cooper, "The 2018 State Energy Efficiency Scorecard," American Council for an Energy-Efficient Economy, October 2018, Table 17, page 42.

³⁶ Berg et al. 2018, Table 18, page 43.

³⁷ New York has an all-fuels Btu target, but it was based on targets of 3.0 percent savings for electricity and 1.5 percent for natural gas. See Optimal Energy, "Analysis of Energy Efficiency Savings Targets in New York State," 2018. https://assets.nrdc.org/sites/default/files/optimal-energy-analysis-of-energy-efficiency-savings-targets-in-new-york-state-2018-04-05.pdf?_ga=2.166758142.1941833523.1553446280-1590874612.1553446280.

in the range of 1.50 to 1.99 percent: California (1.97 percent) and Connecticut (1.62 percent).³⁸ In general, these figures are net savings, and ACEEE has applied a net-to-gross factor of 0.856 when reporting was at the gross level.³⁹

For natural gas savings, ACEEE reported six states as having annual savings of 0.75 percent or higher: Minnesota (1.35 percent), Massachusetts (1.08 percent), Rhode Island (1.02 percent), Michigan (1.01 percent), Utah (0.78 percent), and California (0.78 percent). Another five states reported having annual savings rates of 0.50 to 0.74 percent.⁴⁰

Best Practices

As a starting point for energy savings target-setting, states that do not have a legislatively established EERS usually rely on detailed studies that estimate the available cost-effective savings within their jurisdictions. They might also use current or prior experience in implementing efficiency programs to inform target setting.⁴¹ Another option some states have used is to adopt targets similar to those of nearby states that have comparable climates and economic conditions.⁴² Many states, such as Illinois and Michigan, define energy savings targets in EERS legislation. In other states, such as California and Massachusetts, targets are set by utility regulatory bodies.⁴³ Targets are frequently reviewed and set every few years to account for recent program results and changes in energy efficiency potential or policy priorities.⁴⁴

Regardless of the starting point and mechanism for setting targets, the level of energy savings and the timing of those savings are important considerations in the target-setting process. To allow utilities to include energy efficiency into long-term integrated resource planning, savings targets are often set for multiple years.⁴⁵ Multi-year targets allow utilities and state governments to plan for the future with some degree of certainty. These targets typically allow for a “ramp-up” period. That is, the targets increase over several years.⁴⁶

Providing adequate ramp-up periods is a best practice in energy target setting for several reasons. Namely, it gives utilities sufficient time to plan for, develop, and market their programs,

³⁸ Berg et al. 2018, Table 8, page 28.

³⁹ Berg et al. 2018, page 29.

⁴⁰ Berg et al. 2018, Table 10, page 31. Note, as with electricity, ACEEE seems to have omitted several states.

⁴¹ Downs, A., and C. Cui, “Energy Efficiency Resource Standards: A New Progress Report on State Experience,” ACEEE, April 2014; U.S. Environmental Protection Agency, “State Climate and Energy Program Technical Forum: Energy Efficiency Resource Standards, Background and Resources,” January 2010.

⁴² Downs and Cui 2014; US EPA 2010.

⁴³ Downs and Cui 2014.

⁴⁴ US EPA 2010.

⁴⁵ Downs and Cui 2014.

⁴⁶ Downs and Cui 2014; US EPA 2010; Southeast Energy Efficiency Alliance, “Energy Efficiency Goal Setting in the Southeast,” May 2015; State and Local Energy Efficiency Action Network, “Setting Energy Savings Targets for Utilities: Driving Ratepayer-Funded Efficiency through Regulatory Policies Working Group,” September 2011.

and to build the necessary infrastructure for successfully implementing them.⁴⁷ It also allows utilities to test and make adjustments to programs and portfolios as savings targets increase.⁴⁸ Last, ramp-up periods can allow for and account for regulatory lag.^{49,50}

ACEEE maintains a database of state EERS. The database offers many examples of state energy targets ramping up over time.⁵¹ For example, the database indicates:

- In 2010, Massachusetts statewide savings targets were initially set at 1.4 percent of annual electric sales and 0.63 percent of annual natural gas sales. Electric savings targets ramped up an average of 0.30 percent per year from 2010 to 2.94 percent in 2016. Gas savings targets increased by an average of 0.10 percent each year to 1.24 percent in 2016.
- In 2007, Illinois electric savings targets were set at 0.2 percent of annual sales for 2008 and ramped up to 2 percent in 2015. Natural gas goals were set at 0.2 percent in 2012 with a ramp up to 1.5 percent by 2019. Due to budgetary caps imposed by statute, goals were adjusted downward in the later years. Current savings targets are different across utilities, but the average is 1.77 percent of sales from 2018 to 2021.⁵² Natural gas targets are 8.5 percent cumulative savings by 2020, which amount to 0.2 percent incremental savings in 2011, ramping up to 1.5 percent in 2019.
- Rhode Island's annual incremental electric savings goals for electricity during the 2012-2014 period began at 1.7 percent and increased to 2.5 percent by 2014. Targets for 2015-2017 range from 2.5 percent to 2.6 percent. Gas savings targets for the 2012-2014 timeframe started at 0.6 percent in 2012, increasing to 1.0 percent in 2014. Targets range from 1 percent to 1.1 percent for 2015-2017.

In some states, the ramp-up rate is specified in the EERS. For example, in 2015, Maryland Public Service Commission issued new targets as part of the EmPOWER Maryland Energy Efficiency Act of 2008. The targets specified that utilities need to achieve savings of 2 percent per year by ramping up savings at a rate of 0.2 percent per year starting in 2016.⁵³

⁴⁷ Downs and Cui 2014; US EPA 2010; Southeast Energy Efficiency Alliance 2015; State and Local Energy Efficiency Action Network 2011.

⁴⁸ Downs and Cui, 2014.

⁴⁹ *Regulatory lag* refers to the time between a utility's requesting new rates and the utility commission approving those rates.

⁵⁰ Downs and Cui 2014; Southeast Energy Efficiency Alliance 2015.

⁵¹ "Energy Efficiency Resource Standards," ACEEE. <https://database.aceee.org/state/energy-efficiency-resource-standards>.

⁵² Commonwealth Edison's 2018-2021 plan (Docket 17-0213) achieves its statutory goal of 2.3 percent, however, Ameren Illinois' goal (Docket 17-0331) was reduced to approximately 1.6 percent, because of budget caps.

⁵³ "Energy Efficiency Resource Standards," ACEEE.

A ramp-up period does not always reflect a straight-line trajectory. In 2016, when the DC Sustainable Energy Utility (DCSEU) was rebid for a five-year contract period, the savings goals embedded in the RFP and the subsequent contract required a significant ramp up in savings in the third year of the contract.⁵⁴

Establishing Quantitative Performance Indicators

Statutory Mandate

The New Jersey Clean Energy Act of 2018 provides:

(c) No later than one year after the date of enactment of P.L.2018, c.17 (C.48:3-87.8 et al.), the board shall adopt quantitative performance indicators pursuant to the "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.) for each electric public utility and gas public utility, which shall establish reasonably achievable targets for energy usage reductions and peak demand reductions and take into account the public utility's energy efficiency measures and other non-utility energy efficiency measures including measures to support the development and implementation of building code changes, appliance efficiency standards, the Clean Energy program, any other State-sponsored energy efficiency or peak reduction programs, and public utility energy efficiency programs that exist on the date of enactment of P.L.2018, c.17 (C.48:3-87.8 et al.). In establishing quantitative performance indicators, the board shall use a methodology that incorporates weather, economic factors, customer growth, outage-adjusted efficiency factors, and any other appropriate factors to ensure that the public utility's incentives or penalties determined pursuant to subsection e. of this section and section 13 of P.L.2007, c.340 (C.48:3-98.1) are based upon performance, and take into account the growth in the use of electric vehicles, microgrids, and distributed energy resources. In establishing quantitative performance indicators, the board shall also consider each public utility's customer class mix and potential for adoption by each of those customer classes of energy efficiency programs offered by the public utility or that are otherwise available. The board shall review each quantitative performance indicator every three years. A public utility may apply all energy savings attributable to programs available to its customers, including demand side management programs, other measures implemented by the public utility, non-utility programs, including those available under energy efficiency programs in existence on the date of enactment of P.L.2018, c.17 (C.48:3-87.8 et al.), building codes, and other efficiency standards in effect, to achieve the targets established in this section.

⁵⁴ District Department of Energy & Environment, Request for Proposals for District of Columbia Sustainable Energy Utility Contractor, February 2016.
https://doee.dc.gov/sites/default/files/dc/sites/ddoe/publication/attachments/DCSEU%20RFP_DOEE-2016-R-0002_FINAL.pdf, Table C.2, page 41, and Table C.3, page 42.

Industry Norms

In 2015, Nowak et al. completed a national review of performance incentives, and provided a concise history of the development of performance incentives in the efficiency industry:

The historical origins of performance incentives and their rationales vary from state to state. While there are some common themes, the regulatory, policy, and economic circumstances differ enough to defy generalization, as seen in these examples.

Massachusetts' first incentives were for New England Electric in the early 1990s. The state lowered the level of performance incentives and introduced decoupling during the mid-1990s. The primary motivation for having performance incentives has been to achieve energy savings goals. The ability of the utilities to earn a return on energy efficiency spending persuades them to align their goals with public policy goals.

Since the 1980s California had decoupling in place. However, in an effort to move toward deregulation during the late 1990s, California suspended decoupling. After the 2001 electricity crisis occurred, the state then reinstated decoupling over the next three years and moved to expand energy efficiency. In 2005, the California Public Utilities Commission added performance incentives in the form of the Risk Reward Incentive Mechanism to encourage greater efficiency. Unlike many states, the regulations at that time also included financial penalties if program performance results were not sufficiently in line with energy savings goals.

Oklahoma's utility performance incentives arose from an investor-owned utility approaching the Corporation Commission in a rate case, resulting in a commission order requiring the development of quick-start energy efficiency programs. The utility came back with a proposal including programs, a rider for cost recovery, lost revenue recovery, and a 25% shared-savings performance incentive mechanism. When it came time for full compliance programs, i.e., no longer only quick-start, the utilities were still allowed to seek lost revenues attributable to energy efficiency through an LRAM [Lost Revenue Adjustment Mechanism]. The incentive was reduced from 25% to 15%. Oklahoma has decoupling for gas, but not electric utilities.

In Rhode Island, energy efficiency programs and utility performance incentives were both instituted years prior to decoupling. Performance incentives for energy efficiency were viewed at that time as one factor that allowed the utilities to support least-cost procurement.

Vermont's statewide energy efficiency utility, Efficiency Vermont, has had quantitative performance indicators to determine the financial incentives since 2000. Vermont Energy Investment Corporation (VEIC) was hired explicitly on a performance-based three-year contract basis, so having incentives was a logical element. In 2011 VEIC was

*engaged as an efficiency utility via a long-term order of appointment, but the performance incentive continued.*⁵⁵

In Vermont, quantifiable performance indicators (QPIs) are now incorporated into the triennial Demand Resources Plan proceeding, conducted by the Vermont Public Utility Commission, as is typical for jurisdictions with performance incentives.⁵⁶ For the current three-year period, Efficiency Vermont, the statewide energy efficiency utility, has 5 QPIs and 9 Minimum Performance Requirements (MPRs). The QPIs for Efficiency Vermont are:

- Total resource benefits
- Annual electricity savings
- Statewide summer peak demand savings
- Statewide winter peak demand savings
- Lifetime electricity savings⁵⁷

In addition to QPIs, Efficiency Vermont is tasked with meeting 9 MPRs:

- Minimum electric benefits
- Threshold level of participation by residential customers
- Threshold level of participation by low-income households
- Threshold level of participation by small business customers
- Geographic equity
- Administrative efficiency
- Service quality
- Resource acquisition performance period spending
- Spending on development and support services in the performance period⁵⁸

QPIs have become fairly routine in the efficiency industry, with their use spelled out in regulatory planning cycles and proceedings. Optimal Energy and Energy Futures Group prepared a report for the Michigan Public Service Commission, addressing the specific issue of how to design performance indicators so as not to reward short-lived measures. Jurisdictions that want to move beyond annual savings, which can be inflated with high levels of inexpensive savings with short lives (on a cost-per-annual-energy-savings calculation basis), but which might be very costly lifetime efficiency resources, can find the conclusions in that report. It contains seven options for adjusting or augmenting savings goals to encourage long-term savings:

⁵⁵ Nowak, S., B. Baatz, A. Gilleo, M. Kushler, M. Molina, and D. York, “Beyond Carrots for Utilities: A National Review of Performance Incentives for Energy Efficiency,” ACEEE, May 2015, page 9.

⁵⁶ Vermont Energy Investment Corporation, “Efficiency Vermont Triennial Plan 2018 – 2020,” prepared for the Vermont Public Utility Commission, November 2017, page 36.
<https://www.efficiencyvermont.com/Media/Default/docs/plans-reports-highlights/2018/efficiency-vermont-triennial-plan-2018-2020.pdf>.

⁵⁷ Efficiency Vermont Triennial Plan 2018-20, page 39.

⁵⁸ Efficiency Vermont Triennial Plan 2018-20, page 39.

1. Lifetime savings goals
2. Discounted lifetime savings goals
3. Net present value of net benefits
4. Cumulative annual savings goals over a multi-year period
5. First-year savings goals with limits on quantities of savings from short-term measures
6. First-year savings goals with bonuses / penalties for long- / short-lived measures
7. First-year savings goal with average measure life adjustment factor.⁵⁹

Illinois provides a good example of comprehensive efficiency legislation that focuses on lifetime savings. The Future Energy Jobs Act (FEJA) of 2016 establishes cumulative utility efficiency goals by 2030. Although regulators also set annual goals during DSM plan proceedings, these are calculated from formulae established in legislation, and are dependent on past progress and remaining persisting savings.⁶⁰ FEJA also provides for performance incentives in the form of rate-basing efficiency expenditures, amortized at the portfolio-weighted average cost of capital, as a regulatory asset for which the utility earns its rate of return. FEJA also allows additional performance-based incentives of increases or decreases in the allowable rate-of-return basis points. This practice puts efficiency on the same basis as any other energy-generating asset with respect to the rate of return available to the utility, but that rate is guaranteed only if the utility meets the goals.

In the work done by Nowak and colleagues, the researchers asked respondents what advice they would give to a state that was considering or drafting performance indicators. The advice is worth repeating at this important stage of development in New Jersey:

- Keep the mechanism simple, while fairly aligning the interests of ratepayers and shareholders.
- Choose a shared-benefits incentive that rewards the utility both for achieving higher energy savings levels and for doing so cost effectively.
- Establish clear definitions and a standard that applies to all utilities equally.
- Standardize the reports, how the savings are calculated and adjusted, and what embedded costs are to be included. Failing to do so may cause confusion and results that vary according to the way they are interpreted.
- Be aware of the size of the incentive. In a structure where the incentive is a function of savings or spending, the total incentive can grow quickly as the energy efficiency budget increases. This is particularly true in the current environment, where greater emphasis is placed on energy efficiency.

⁵⁹ Optimal Energy, Inc., and Energy Futures Group, “Alternative Michigan Energy Savings Goals to Promote Longer Term Savings and Address Small Utility Challenges,” prepared for the Michigan Public Service Commission, September 2013, page 20. https://www.michigan.gov/documents/mpsc/final_phase1_report_600393_7.pdf.

⁶⁰ See Illinois SB 2914. <http://www.ilga.gov/legislation/99/SB/PDF/09900SB2814lv.pdf>.

- Inform all parties of the likely range of planned incentive levels, so that no one is surprised. Use incentives to encourage utilities to expand their successes beyond the status quo.
- Consider how the QPIs will account for any interactive effects among different programs. There is the potential for competing priorities when implementing multiple programs with different incentive mechanisms. (This recommendation might be most relevant for multi-factor performance incentive mechanisms.)⁶¹

Best Practices

Quantitative performance indicators in their best form provide incentives for utilities and program administrators to achieve or exceed goals established in law or policy. States handle the establishment of performance indicators differently. Some conclusions on best practices are:

- QPIs should be created collaboratively in a facilitated stakeholder process. This is not universal in practice, but some of the best QPIs are enhanced through this process.
- QPIs must be objectively measurable with relative ease and efficiency, and must leave little room for controversy or conflicting interpretations.
- QPIs should reward and incentivize high performance. QPIs should provide incentives for outcomes, rather than activities. For example, a low-income savings target would be a more appropriate metric than a spending target, which might or might not lead to good performance in energy savings.
- QPIs should be scalable to performance. Incentives should specify a range for rewardable performance. Many jurisdictions begin with a threshold level of performance somewhat lower than the plan goals, with increasing rewards for increased performance, up to a cap that is typically around 125 percent of the plan goals. This ensures that a utility has continuous motivation for greater performance and earnings, even if it knows it cannot reach its goal, or even if it has already exceeded its goal.
- QPIs should be designed with an eye on the pitfalls of providing incentives for one thing at the expense of another. For example, if a single metric of annual energy savings is the performance metric, it will be too easy for utilities or program administrators to under-invest in residential and / or low-income programs, which generally have a much higher cost per energy unit saved.
- Although QPIs need to have continuity and length of life, they should change with changing circumstances. Efficiency Vermont's long history with QPIs shows how the State's energy priorities and efficiency programming have changed over time. The three-year cycle that many states now use for energy efficiency program planning is probably ideal for re-visiting QPIs. That does not suggest wholesale revision every three years, but at least the ability to reshape and re-prioritize. The three-year cycle also allows the parties to set the

⁶¹ Nowak et al. 2015, page 33.

earnings opportunity commensurate with each plan's expected level of effort and budget.

Establishing Incentives

Statutory Mandates

The New Jersey Clean Energy Act of 2018 provides:

e. (1) Each electric public utility and gas public utility shall file an annual petition with the board to demonstrate compliance with the energy efficiency and peak demand reduction programs, compliance with the targets established pursuant to the quantitative performance indicators, and for cost recovery of the programs, including any performance incentives or penalties, pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1). Each electric public utility and gas public utility shall file annually with the board a petition to recover on a full and current basis through a surcharge all reasonable and prudent costs incurred as a result of energy efficiency programs and peak demand reduction programs required pursuant to this section, including but not limited to recovery of and on capital investment, and the revenue impact of sales losses resulting from implementation of the energy efficiency and peak demand reduction schedules, which shall be determined by the board pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1).

(2) If an electric public utility or gas public utility achieves the performance targets established in the quantitative performance indicators, the public utility shall receive an incentive as determined by the board through an accounting mechanism established pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1) for its energy efficiency measures and peak demand reduction measures for the following year. The incentive shall scale in a linear fashion to a maximum established by the board that reflects the extra value of achieving greater savings.

(3) If an electric public utility or gas public utility fails to achieve the reductions in its performance target established in the quantitative performance indicators, the public utility shall be assessed a penalty as determined by the board through an accounting mechanism established pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1) for its energy efficiency measures and peak demand reduction measures for the following year. The penalty shall scale in a linear fashion to a maximum established by the board that reflects the extent of the failure to achieve the required savings.

(4) The adjustments made pursuant to this subsection may be made through adjustments of the electric public utility's or gas public utility's return on equity related to the energy efficiency or peak demand reduction programs only, or a specified dollar amount, reflecting the incentive structure as established in this subsection. The adjustments shall not be included in a revenue or cost in any base rate filing and shall be adopted by the board pursuant to the "Administrative Procedure Act.

Industry Norms

Performance incentives provide a way for utilities to earn a return on their spending on energy efficiency, just as they earn a return on other assets. Illinois offers one example of recent legislation that allows utilities to earn the same return on equity, amortized at the portfolio-weighted average cost of capital, on their efficiency spending as they do on other regulatory assets. The condition they must meet is that they have achieved the established performance metrics.

In the 2018 State Scorecard, ACEEE reports that “29 states offer a performance incentive for at least one major electric utility, and 17 states have incentives for natural gas energy efficiency programs. Some states with third-party program administrators have performance incentives for the administrator rather than for the utilities.”⁶² In some instances, the performance incentives result in higher spending by utilities on efficiency. “While most performance incentives are based on shared net benefits—viewed as an expense—the relative amounts of the incentives are in the range of 5–15% of program spending.”⁶³

Many states include minimum thresholds for one or more QPIs, below which performance incentives are not available, or for which penalties apply. These are often base levels of overall energy savings in MWh or therms. They might also exclude increased electricity use from added loads from electric vehicles or other “strategic electrification” measures, or the net results of CHP installations. But they might also have to do with overall portfolio benefits or net benefits. Nowak and team provide a useful table summarizing minimum threshold requirements, overall incentive structure, and maximum incentives. They also categorize results into three types of incentive structures:⁶⁴

- Shared net benefits. These provide the utility with the opportunity to earn some portion of the benefits of efficiency that would otherwise go to ratepayers (Arkansas, Arizona, Colorado, Georgia, Kentucky, Minnesota, North Carolina, Ohio, Oklahoma, South Carolina, and Texas)
 - Example: Ohio has used a shared net benefits approach that rewards percentage or kWh energy savings, which has reportedly worked well and has changed over time. A multi-year rate plan was used at first with fixed

⁶² Berg et al. 2018, page 46.

⁶³ Berg et al. 2018, page 32, citing Nowak et al. 2015.

⁶⁴ Typology, definitions, and state categorizations by Nowak et al. 2015, page. v and pages 10-14. Examples derived from: (a) Migden-Ostrander, J., D. Littell, J. Shipley, C., Kadoch, and J. Sliger, “Recommendations for Ohio’s Power Forward Inquiry,” Regulatory Assistance Project, February 2018, page 13, <https://www.raponline.org/knowledge-center/recommendations-ohios-power-forward-inquiry/>; (b) Eversource Energy, The United Illuminating Company, Connecticut Natural Gas, and Southern Connecticut Gas, “2017 Annual Update of the 2016-2018 Conservation & Load Management Plan,” March 2017, page 294, <https://www.ct.gov/deep/lib/deep/energy/conserloadmgmt/clm2018planfinal.pdf>; (c) NMR Group, Inc., Ecometric Consulting, Demand Side Analytics, Blue Path Labs, and Setty and Associates, “Performance Benchmark Assessment of FY2017 DC Sustainable Energy Utility Programs,” prepared for District of Columbia Department of Energy and Environment, September 2018, Table 1, page 1. <https://doee.dc.gov/sites/default/files/dc/sites/ddoe/publication/attachments/DCSEU%20FY2017%20Performance%20Benchmarks%20report%20-%20FINAL%20092818.pdf>.

rates that allowed utilities to retain all or a portion of cost savings from efficiency. A later version used a revenue cap, which required revenue and savings beyond a certain level to be shared with ratepayers. More recent versions involve a predetermined formula or other mechanism that allows revenue or rates to change during the plan.

- Savings-based. These structures reward programs for meeting or exceeding established savings goals (Connecticut, Indiana, Michigan, New Hampshire, Rhode Island, and New York)
 - Example: Connecticut's 2017 plan contains the incentive structure for Southern Connecticut Gas Company, which provides the utility with an incentive of 4.25 percent of the efficiency plan budget if it achieves 100 percent of its efficiency goals. That incentive decreases / increases in a linear fashion from 77.5 percent of goal to 137.5 percent of goal.
- Multi-factor. These structures provide performance targets covering multiple policy goals (California, District of Columbia, Hawaii, Massachusetts, Missouri, Vermont, and Wisconsin).
 - Example: The DCSEU earned performance incentives for meeting six 2017 metrics: reduction of electricity consumption; reduction of natural gas consumption; increase in renewable energy generation capacity; increase in energy efficiency of low-income properties (with both expenditure and savings metrics); and increase in green collar jobs. The DCSEU's multi-factor structure is further complicated by the fact that some goals are annual and others are cumulative across the five-year performance period.⁶⁵

In an online toolkit for utility incentives for efficiency, ACEEE notes that incentives can help to put "energy efficiency and supply-side resources on relatively equal financial footing, enabling shareholders to earn a comparable financial benefit on either investment. An important additional advantage with most of these mechanisms is that they are tied to a specific level of performance rather than spending."⁶⁶

In 2015, Synapse Energy Economics prepared a handbook for the Western Interstate Energy Board, which laid out the following principles of design for utilities' performance incentives:

1. Tied to the policy goal
2. Clearly defined
3. Able to be quantified from reasonably available data
4. Sufficiently objective and free from external influences

⁶⁵ NMR Group et al. 2018, Table 2, page 5.

⁶⁶ ACEEE, "Aligning Utility Business Models with Energy Efficiency," *American Council for an Energy-Efficient Economy Technical Assistance Toolkit*, <https://aceee.org/sector/state-policy/toolkit/aligning-utility>.

5. Easily interpreted
6. Easily verified⁶⁷

The authors also make the case that it is important for metrics to be consistent with national or regional standards.⁶⁸

Best Practices

Optimal Energy's participation in a study of energy policy issues in New Hampshire involved a summary of guidance on key factors for consideration, as shown in Table 34.⁶⁹

Table 34. Considerations for designing performance incentives

Level of financial reward	Performance basis	Multivariate metrics	Scalability	Penalties vs. rewards	Evaluation, measurement, & verification
Rewards of 4-8% are typically sufficient. It is easier to evaluate the size of the reward when it is based on program budget, rather than on net benefits or an increased rate of return.	Based on actual measurable and verifiable performance.	Multiple metrics should be used other than savings to discourage cream-skimming and to promote secondary policy objectives.	Incentives should be scaled to encourage performance, even when goals are met (or when it is clear that goals will not be met).	Some states impose penalties instead of, or in addition to performance awards. Penalties can encourage extra effort to meet goals.	To encourage performance, set goals to be aggressive, yet reachable. Performance metrics should be verified by an independent third party.

Effective performance incentives are tied directly to actual outcomes, not actions or activities. They must be measurable and verifiable. The results of effective performance incentives can be seen in the performance of some of the states that are considered the top performers in energy efficiency. These states have paid attention to the best practices of energy efficiency performance incentives, and they have avoided the pitfalls of poorly designed incentives.

⁶⁷ Whited, M., T. Woolf, A. Napolean, "Utility Performance Incentive Mechanisms: A Handbook for Regulators," prepared for Western Interstate Energy Board, March 2015, page 28. http://www.synapse-energy.com/sites/default/files/Utility%20Performance%20Incentive%20Mechanisms%2014-098_0.pdf.

⁶⁸ Whited et al. 2015, page 28.

⁶⁹ Vermont Energy Investment Corporation, Jeffrey H. Taylor & Associates, Inc., and Optimal Energy, Inc., "Independent Study of Energy Policy Issues," prepared for the New Hampshire Public Utilities Commission, September 2011, page 9-2. http://www.puc.nh.gov/Sustainable%20energy/Reports/New%20Hampshire%20Independent%20Study%20of%20Energy%20Policy%20Issues%20Final%20Report_9-30-2011.pdf.

Recommendations for Additional Technical Studies

As shown in the literature review, very little New Jersey-specific information is publicly available to inform estimates of potential and other recommendations made in this report. This indicates the need for additional technical studies. At minimum, in the near future, we recommend that the State complete energy efficiency baseline studies for the residential and C&I sectors. The data from such baseline studies could be used for further refinement of the potential estimates provided in the current study. We recommend that such a refinement be completed once the necessary baseline studies are complete.

As will be seen later in this report, there was no request by the Board that this study make recommendations on the structure of program administration in New Jersey. That will be a question as the State undertakes the many next steps of design and implementation. It would be useful to have current process and impact evaluations of existing programs to inform those discussions, as well as a study of best practices from other states that are attempting to take on the same levels of challenge articulated in the Clean Energy Act.

A New Jersey-specific cataloging of potential CHP sites in the residential (multifamily), commercial, institutional, and industrial sectors would also be useful should the State want to make CHP programming a larger part of its energy efficiency repertoire.

A technical assessment of existing and planned distributed energy resources would help with planning the future of DER in the State and also be a valuable aid in resource planning.

As will be seen in the next section on targets and QPIs, a full catalog of customer information, by utility, would also be useful. Such a catalog would include demographics of the customer base (including income, language), breakdowns of sizes of commercial customers integrated with information on business types. These data can help to inform programming strategies as well as help to refine targets and build a base of information to develop the necessary metrics around the QPIs recommended.

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SECTION 3: RECOMMENDATIONS ON QPIS AND PERFORMANCE INCENTIVES

The Board requested that the results of the potential analysis be used to develop recommendations on targets and that recommendations be made on quantitative performance indicators and a performance incentive mechanism structure. The recommendations included in this section are informed by the potential study. These recommendations are intended to be a starting point for discussion for the Independent Advisory Committee that will be established to collaborate with the Board to develop the full set of frameworks necessary for effective program delivery, including appropriate targets and performance incentives and penalties.

It is worth noting that the Board did not request a review of effectiveness of current programming nor a recommendation in this study on program administration framework, and so we have not made a recommendation. We have tried to remain neutral in our language by using “program administrator” rather than naming either the Board’s Office of Clean Energy or the utilities as the administrator.

The Board has asked for recommendations on targets, informed by the potential study, with a specific request covering the first five years of program implementation. Those first five years of program implementation were assumed to be 2020 – 2024, based on the Board’s request that Year 1 of the potential study be 2020.⁷⁰

ALIGNMENT OF REQUIREMENTS AND RECOMMENDATIONS FRAMEWORK

The New Jersey Clean Energy Act calls for the BPU to develop savings targets (or “Quantitative Performance Indicators”) for all electric and natural gas public utilities. The energy efficiency and demand response potential estimates inform these QPIs. The utilities must ramp up to a *minimum* of 2 percent savings of average prior three-year loads for electricity and 0.75 percent for gas. Ultimately, the Act calls for utilities to pursue all cost-effective and “reasonably achievable” reductions in energy and demand.

No later than one year after the date of enactment of P.L.2018, c.17 (C.48:3-87.8 et al.), the board shall adopt quantitative performance indicators pursuant to the “Administrative Procedure Act,” P.L.1968, c.410 (C.52:14B-1 et seq.) for each electric public utility and gas public utility, which shall establish reasonably achievable targets for energy usage reductions and peak demand reductions and take into account the public utility’s energy efficiency measures and other non-utility energy efficiency measures including measures to support the development and implementation of building code changes, appliance efficiency standards, the Clean Energy program, any other State-sponsored energy

⁷⁰ Responses to questions by potential bidders to the November 2018 RFQ by the BPU.

efficiency or peak reduction programs, and public utility energy efficiency programs that exist on the date of enactment of P.L.2018, c.17 (C.48:3-87.8 et al.).

Utilities are allowed to count savings of all efficiency initiatives and other activities that result in savings within their individual territories, regardless of whether the initiative was administered by the utility or by some other party such as the State. The maximum achievable potential estimated by the current potential study corresponds to the full efficiency potential within each utility territory, regardless of how that efficiency is captured. Because efficiency savings are generally fungible, the achievable potential can in theory be captured through the adoption and enforcement of stricter codes and standards, or other initiatives outside utility-administered programs. We therefore focus on the entire maximum achievable efficiency potential and do not make specific assumptions about what strategies are used, what entities deliver them, or what portion of the potential might come from different implementation approaches.

Because the BPU is directed to develop QPIs only for public utilities, this project's scope is limited to the potential and QPIs for those entities. Optimal does not make assertions about specific plans in New Jersey from initiatives outside the public utility sphere that might contribute to the QPIs. This study also does not attempt to allocate savings goals to entities other than the public utilities. Nothing precludes a utility from pursuing improved building code compliance and counting savings from that compliance. Such improvements in compliance might instead be carried out by a State agency and thus contribute to savings, as well. Because a State agency might have activities that result in efficiency that counts toward a utility goal, a utility might develop a plan for its own programs that falls somewhat short of the legislative minimums (2 percent and 0.75 percent for electricity and gas, respectively, in Year 5), assuming non-utility administered initiatives would make up the difference. This approach would create risks for the utilities because they cannot count on, monitor, or control such third-party activities. It would be difficult to know where they are in meeting goals, and what performance incentives or penalties might be at risk.

The Act calls for the savings that count toward targets to be "below what would have otherwise been used." Further, it states:

In establishing quantitative performance indicators, the board shall use a methodology that incorporates weather, economic factors, customer growth, outage-adjusted efficiency factors, and any other appropriate factors to ensure that the public utility's incentives or penalties determined pursuant to subsection e. of this section and section 13 of P.L.2007, c.340 (C.48:3-98.1) are based upon performance, and take into account the growth in the use of electric vehicles, microgrids, and distributed energy resources.

This potential study does just that. We have considered only the potential net savings from capturing efficiency in buildings and industry, based on projected weather-normalized load forecasts, net of any distributed energy resources, expected outages, and other such factors. The Act further requires that estimates of utility territory savings in compliance reporting, and awards for achieved performance, also account for these and other exogenous factors. Although it is tempting to accept an approach of observing and metering actual loads, and then separately

adjust for these factors, we do not recommend that approach. It would require many subsequent adjustments for all of the factors that might have affected actual loads that were not driven by the efficiency efforts. In our experience, this approach suffers from challenges that not only introduce administrative burdens but, more important, add substantial uncertainty to any ultimate savings estimates attributable to efficiency. For example:

- Accurate adjustments for weather are inherently uncertain.
- Accurate data on many of the exogenous variables are not available, or are very difficult to estimate accurately. Although some variables, such as distributed generation, might be known and tracked by utilities, there is a wide variety of potential new loads or impacts for which data do not exist.
- Estimating all major exogenous impacts and adjusting for them would be highly problematic, and by necessity cannot include all actual exogenous factors. For example, one might adjust for large and understood impacts such as electric vehicles, distributed generation, and economic growth; but it is very challenging to adjust for changing patterns of behavior and end uses that might be occurring because of natural market forces such as increased computing power or other plug loads.
- This approach makes it exceedingly difficult to manage the accounting of efficiency efforts and to track and measure progress as the efforts are implemented. Because actual savings from a program would be based on future unknown actual loads, there would be significant lags in feedback on whether programs were working well and whether a utility was on track to meet its goals.

Ultimately, what the utilities, the BPU, and New Jersey residents and businesses care about is what the net savings attributable to the efficiency efforts are, all else being equal, compared to a counterfactual baseline that will never exist and cannot be directly measured. Therefore, we recommend a more traditional evaluation, measurement, and verification (EM&V) approach to estimate and track savings. This approach of tracking actual program activity at the measure level, and assessing what each measure would save, assuming all exogenous factors are held constant, will be more accurate. Further, it is better supported and understood by the industry. And in addition to improving accuracy, it provides some essential and practical benefits. It allows utilities to track programs and to have accurate real-time estimates of performance.⁷¹

Traditional EM&V approaches also allow for a good understanding of attribution of savings. It is therefore important to understand the net savings that are attributable to each efficiency initiative, to understand how well the initiative is working, to identify improvements that can be made, to assess cost-effectiveness, and whether the initiative should be continued. Measuring only total actual loads for all customers affords little opportunity for insights about program value when assessing program performance and cost effectiveness. Indeed, the Act also requires:

⁷¹ Note that we are not suggesting the tracked savings be automatically assumed to be correct. Ex-post verification and evaluation of impacts should be performed by an independent third-party evaluator.

*Each electric public utility and gas public utility shall file with the board implementation and reporting plans as well as **evaluation, measurement, and verification strategies to determine the energy usage reductions and peak demand reductions achieved by the energy efficiency programs and peak demand reduction programs approved pursuant to this section.** [Emphasis added]*

Finally, there is a practical benefit to this approach in New Jersey. The State will benefit from a significant and established EM&V industry, frameworks, and methods that have been tested and improved over decades. Further, the capability and workforce capacity necessary to implement this approach already exist; and in New Jersey, it is the current practice. This approach also allows for reasonable comparisons of performance with efforts in other states and at other utilities. Such comparisons are useful for continuous improvement and moving to more aggressive goals.

Because the Act allows utilities to include savings from the efforts of others (such as codes and standards), estimates of additional savings or actions outside any direct utility programs should be based on those actions. For example, if New Jersey passes new appliance standards, the State will generally have considered, as part of the effort to pass them, the expected impacts that would result from them.⁷²

RECOMMENDED TARGETS AND QUANTITATIVE PERFORMANCE INDICATORS

Optimal has derived and recommends overall net savings goals for each utility. Per the requirements of the Act, these goals are defined in terms of *annual incremental net energy savings*.⁷³ We outline additional QPIs that we recommend, with a performance incentive structure for meeting goals and a penalty structure for when they do not meet goals. We recommend that performance incentives be in place for these other targets, because only annual savings are statutory requirements.

The experience and current state of efficiency programs in New Jersey constitute an important starting point for any recommendations on performance incentives. The current program infrastructure and experience from other states also inform this analysis. The potential study shows that maximum cost-effective achievable efficiency exceeds the mandated minimums. However, we believe that utilities will need to ramp up program implementation and therefore expand staff, infrastructure, and capabilities.

We suggest that a five-year ramp to a level somewhat above the legislatively mandated minimums is reasonable. As was noted in the literature review, there are only a few high-

⁷² We recommend that New Jersey initially pursue passage of a model state standards bill based on the Appliance Standards Awareness Project (ASAP). This has been adopted by Vermont, and is being considered in Rhode Island, Massachusetts, Connecticut, and New York

⁷³ *Annual incremental energy savings* are defined as the additional first-year estimated new savings achieved from the programs during that year. This factor does not include persisting impacts from past program years, nor does it vary in terms of the duration or shifts in annual savings beyond the first year. *Net savings* refers to the estimated additional savings resulting from the programs, beyond what otherwise would have happened.

performing states with mature efficiency programs that are now pursuing goals beyond the Act minimums.

In terms of recommendations for energy savings targets for the first five years of program administration under the Act Table 35 and Table 36 show the electric and gas goals, respectively. All targets reflect the percentage of the prior three years' average annual loads, adjusted for any exempt loads.⁷⁴ The proposed 2020 QPIs represent relatively small increases over New Jersey historical and currently planned savings. They also recognize that there might be many new programs and additional program administrators and implementers that will need time to ramp up their efforts.

Table 35. Electric net annual statewide energy savings targets

Year	Net savings targets (% of load)	Net annual incremental savings targets (GWh)
2020	0.75%	568
2021	1.10%	833
2022	1.45%	1,100
2023	1.80%	1,369
2024	2.15%	1,645

Table 36. Gas net annual statewide energy savings targets

Year	Net savings targets (% of load)	Net annual incremental savings targets (BBtus)
2020	0.25%	1,168
2021	0.50%	2,335
2022	0.75%	3,511
2023	0.95%	4,473
2024	1.10%	5,226

The Act states that targets should be set for “demand reductions for electric public utilities and gas public utilities.” It is common for electric utilities to have peak demand goals, and they often design initiatives specifically to capture peak demand savings. Active demand management (including traditional demand response) is also emerging as a likely cost-effective approach important to balancing expected growing contributions of renewable energy in the generation mix. However, it is unusual for gas utility programs to have peak demand targets, and most of them do not even attempt to measure and track peak impacts, or to set separate avoided cost values for peak periods. However, pipeline and storage capacity issues in the Northeast are

⁷⁴ Certain utility loads are explicitly exempted by the Act, or are assumed to be exempted for these purposes. Such exemptions might be loads attributed to: transportation, feedstock, distributed generation, and wholesale transactions.

becoming a more significant concern, due in part to the current heavy reliance on gas generation for the electric grid. Gas peak loads are usually expressed as “peak day” loads, and are primarily driven by potential storage capacity and pipeline constraints. In some cases, there might also be some significant, geographically specific, peaking constraints on distribution lines.

Although the Act does call for establishing peak demand targets, it does not specify minimum levels for these targets, unlike the energy targets. We have recommended peak demand targets that reflect likely demand impacts coinciding with the efficiency impacts of a well-designed and comprehensive portfolio of programs and measures. That portfolio would need to strike a reasonable balance of impacts for all important end uses. We recommend these targets apply only to passive or load-following demand savings that occur as part of energy efficiency efforts. To the extent New Jersey utilities invest in cost-effective active demand management, we recommend separate metrics and targets for these. Table 37 and Table 38 respectively show recommended electric and gas peak impacts. The electric demand targets reflect savings from the energy efficiency programs, and do not include any demand response or active demand management savings, which should have separate QPIs if appropriate.

Table 37. Electric net annual statewide coincident peak demand savings targets

Year	Net savings targets (% of load)	Net coincident peak savings targets (MW)
2020	0.6%	116
2021	0.8%	174
2022	1.2%	245
2023	1.5%	311
2024	1.8%	374

Table 38. Gas net annual statewide coincident peak demand savings targets

Year	Net savings targets (% of load)	Net coincident peak savings targets (BBtus)
2020	N/A	15
2021	N/A	27
2022	N/A	38
2023	N/A	57
2024	N/A	66

RECOMMENDED PERFORMANCE INCENTIVES

Introduction and Rationale for Performance Incentives

This section presents the concepts and guiding principles around performance incentives for efficiency programs. It also summarizes some of the leading states' approaches, more fully discussed in the Literature Review section.

Under traditional cost-of-service ratemaking practices, utilities have a financial incentive for increasing their retail sales of energy. This is because much of the utilities' revenue is captured with volumetric energy or demand charges, and once the rates are set, actual loads will be the primary determinant of total revenue obtained. Of course, this also means if sales are lower than those forecasted in a rate case, the utility will lose money until the next rate case.⁷⁵ Thus, the traditional regulatory paradigm causes improved efficiency to reduce utility revenue without a mechanism to adjust for it.

Another inherent disincentive for prioritizing efficiency also pertains to utility finances. When utilities make capital investments in supply-side infrastructure, the investments are amortized and become a regulatory asset. Under this structure the utility earns a rate of return (ROE, or return on equity) until the assets are fully depreciated. Conversely, traditional demand side efficiency program investments are typically treated as expenses that are recovered annually, rather than being treated as a regulatory asset for which the utility earns an ROE. Therefore, not only do efficiency programs tend to erode utility revenue in the short term, they also reduce or defer the opportunities for utilities to invest in supply-side capital projects for which the utility can earn a return.

Efficiency program performance incentives have been a solution many leading states have adopted to address the utility disincentives to investing in, and succeeding at, efficiency delivery. By allowing efficiency resources to compete with supply resources on an equal footing, PIs can promote best practices and optimal resource planning.

The Act addresses cost recovery of efficiency program investments, as well as performance incentives and lost revenues.

*Each electric public utility and gas public utility shall file annually with the board a petition to **recover on a full and current basis through a surcharge all reasonable and prudent costs incurred** as a result of energy efficiency programs and peak demand reduction programs required pursuant to this section, including but not limited to recovery of and on capital investment, and **the revenue impact of sales losses resulting from implementation of the energy efficiency and peak demand reduction schedules, which shall be determined by the board pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1).** [Emphases added.]*

⁷⁵ This assumes that the volumetric portion of retail rates exceeds the utilities' avoided costs of supplying the energy service. This has generally been the case, but there have been rare periods in which the inverse of this relationship has occurred. However, given the significant declines in renewable energy generation costs, the inversion seems extremely unlikely to recur.

We note that the Act seems to envision an annual accounting and recovery of efficiency investments, and therefore does not anticipate treatment of efficiency program costs as a regulatory asset that is amortized over time. We also note that the Act directs some sort of cost recovery mechanism to account for the utilities' net lost revenue. These features help to overcome disincentives to implement efficiency programs. Therefore, any performance incentives should primarily address the latter foregone earnings opportunities.

A core principle of demand side management is that efficiency is an energy resource that should be considered on an equal footing with supply side resources. Therefore, offering a base earning level on energy efficiency investments equal to the utility-approved ROE on other assets seems to result in similar treatment, on its face. However, efficiency programs carry much lower risks to shareholders than do most supply side investments, because of the vast number of individual efficiency projects and measures versus the investment in a single, large asset like a distribution line or substation. Because some significant portion of the ROE compensates for risk, a lower return might be appropriate.

Existing PI Mechanisms and Best Practices

Most PI mechanisms take one of a few forms, or some hybrid of these forms, as more fully discussed in the Literature Review section.

1. Allowing the utility to earn a base return on investment (often the utility-approved ROE), with adjustments up or down for performance.⁷⁶
2. Establishing a certain amount of base funds that can be earned, with the amount scaling up or down linearly within a minimum and maximum level as performance exceeds or falls short of expectations.⁷⁷
3. Establishing a shared-savings mechanism, or some other rate of incentives per dollar of net benefits or unit of savings, that are earned on all savings.⁷⁸

We recommend a version of the second approach for New Jersey. As mentioned above, earning the full utility ROE on efficiency might be excessive, given the lower risk that efficiency programs present. By expensing annually, absent a major imprudent action, utilities are all but assured of recovering their spending in a timely way. This eliminates risks such as stranded assets, investments that might never be used and useful, or investments that become uneconomic. Examples of uneconomic investments are those occurring now with legacy coal and nuclear plants in many jurisdictions. The value of an efficiency resource comes from thousands of small assets. This provides significant diversity and assurance that the resource will continue to be there

⁷⁶ Illinois and New York are current examples of this approach.

⁷⁷ Many New England utilities use this type of model.

⁷⁸ Missouri is an example of this type of model.

as planned, and will also tend to follow loads.⁷⁹ The failure of a single power plant, transmission line, or substation can result in much more significant losses and reliability issues.

In addition to the lower risk of efficiency resources, an important principle in PI design is that the incentives should be sufficient to effectively motivate the utilities to establish programs, while paying no more than necessary, to protect ratepayers. Experience in New England has shown that modest levels of total earnings opportunities are sufficient to provide the necessary incentive.

The pure shared savings approach typically will result in earnings for every unit of savings captured. Utilities can earn some form of performance incentive, even if they fall short of actually meeting goals. A utility could spend 100 percent of its efficiency budget of ratepayer funds and capture only 50 percent of the savings goals, and still be rewarded with earnings. Or a hybrid approach could be designed that uses a shared-savings method, but which has minimum threshold targets to be met before becoming eligible for incentives. If, for example, a minimum threshold of 75 percent was established to receive an incentive, then the utility would not qualify to receive the shared-savings incentive if it reaches only 50 percent of the target.

The following guiding principles for effective PI mechanisms are that they are:

1. Performance-based
2. Multivariate
3. Scalable
4. Measurable and objective
5. Inclusive of countervailing-influence metrics to address secondary policy objectives

As the name indicates, PI metrics should generally be based on outcomes, rather than on the completion of activities. For example, instead of rewarding a utility for completing a certain number of energy audits or contractor training sessions, it would be better to reward the actual energy savings from audit-driven installed measures or participation rates resulting from the completed training of contractors. Solely rewarding the actions with an assumption that they have led to performance can result in perverse incentives. That is, those incentives would reward the utility even if the efficiency program performs activities poorly and its initiatives are not effective or worthwhile; but there would be no incentive to ensure meaningful actions.

If a program administrator can receive an incentive for performing audits that do not result in efficiency projects, the PI design has failed. Instead, the design should reward measurable savings and other benefits from action. On occasion, regulators might want to encourage a specific approach that is believed to be a critical step to achieving performance or some other policy objective. In such cases, it is advisable to establish approaches as minimum criteria for some portion of PI eligibility.⁸⁰

⁷⁹ Load following exists because, for example, an efficient air conditioner will save more energy during a hot summer when cooling loads in general are large and the resource is most needed.

⁸⁰ Efficiency Vermont, for example, has many minimum performance criteria metrics that call for things like thresholds for low-income spending.

PI mechanisms benefit from rewarding multiple measures of performance. This allows for incentives that can promote many policy objectives rather than just a single metric. For example, although one might care about whether the utility has met its annual savings goals, another key policy objective could be cost-efficient spending and maximizing net benefits, or maximizing lifetime (rather than annual) savings.

PI mechanisms benefit from scalability. If instead they encourage a “winner take all” approach for meeting a specific target, they are less effective. For example, if a utility realizes in September that it will not succeed in meeting its goal by the end of the year, and will therefore lose its entire incentive (or pay a penalty), the incentive no longer is a motivating factor to still try to maximize what can be captured. Worse yet, the incentive mechanism can actually encourage a utility to delay capture of some savings to apply in the next program year. Similarly, if a utility is doing well and reaches its goal early, an effective PI mechanism would continue to reward the utility for continuing to strive for even better performance. The Act directs that all proposed PI mechanisms be scalable: “The incentive shall scale in a linear fashion to a maximum established by the board that reflects the extra value of achieving greater savings.”

It is critical that any PI metric be measurable and objective, as well as based on actual performance. This will ensure that all parties understand and can agree on the level of performance achieved, and enables utilities to manage their progress effectively. It is important to clearly define metrics, and establish any assumptions necessary to calculate performance in advance. For example, if a metric is tied to achievement of net benefits, but allows the avoided costs by which they were set to vary, depending on future estimates, or does not clearly identify all the costs and benefits that can be included, it can result in protracted disagreements. Such a situation also makes it difficult for utilities to monitor their programs’ progress.

Typically, primary PI metrics are about savings or some other form of benefits accruing from the savings. These are clearly key policy concerns that reflect the primary purpose of the programs. However, dependence on them can result in perverse incentives that can undermine other secondary policy concerns. For example, with fixed program budgets, maximization of savings or net benefits could drive a program administrator to pursue only the easiest and cheapest savings. This might discourage appropriate attention to capturing long-lived and comprehensive savings, or to serving low-income customers or other segments that are typically more costly for an efficiency program to serve. Several jurisdictions have found that a few metrics to promote actions that counter any possible perverse incentives of the primary metrics, or which ensure attention to key policy objects, can be effective at encouraging a balanced portfolio of programs.

The Clean Energy Act of 2018 calls for performance-based incentives and penalties. Regarding incentives, the Act states,

If an electric public utility or gas public utility achieves the performance targets established in the quantitative performance indicators, the public utility shall receive an incentive as determined by the board through an accounting mechanism established pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1) for its energy efficiency measures and peak demand reduction measures for the following year. The incentive shall

scale in a linear fashion to a maximum established by the board that reflects the extra value of achieving greater savings. [Emphases added.]

Regarding penalties, the Act states,

If an electric public utility or gas public utility fails to achieve the reductions in its performance target established in the quantitative performance indicators, the public utility shall be assessed a penalty as determined by the board through an accounting mechanism established pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1) for its energy efficiency measures and peak demand reduction measures for the following year. The penalty shall scale in a linear fashion to a maximum established by the board that reflects the extent of the failure to achieve the required savings. [Emphases added.]

Our interpretation of the law therefore is that incentives can be earned only once a utility achieves 100 percent of goals, and that penalties must be assessed for any achievement level falling short of 100 percent. It further specifies that both incentives and penalties must scale linearly. However, our interpretation is that there can be two separate linear scales. We have therefore proposed two separate scales, as discussed in the section below and shown in Figure 15 (incentives for goals met) and Figure 16 (penalties for goals not met).

Proposed PI Mechanism Framework

We recommend adopting a PI mechanism framework that allows utilities to begin earning incentives once they achieve 100 percent of a set PI metric target. The earned PI then scales linearly up to a maximum at 125 percent of the metric target. This is shown in Figure 15. We recommend that each PI metric have a specific weighting of the total earnings opportunity. For illustration, Figure 16 demonstrates this as if there were a single PI metric with the entire earnings opportunity tied to it.

If a program administrator does not reach 100 percent of goal, the utility would be exposed to a penalty, which would also scale in a straight line, as required by law. The penalty would continue to scale to the point where no savings (or other metric quantity) at all were achieved. This is shown in Figure 16.

Under our proposed mechanism, the BPU can establish a set amount of base earnings opportunity and a ramp rate for incentives as well as a base penalty level and negative ramp rate. Many PI mechanism frameworks establish these values by selecting a base percentage of *planned annual budgets*. It is important to note that the total amount of earnings opportunity is based on *planned budgets* and fixed for the duration of the plan, regardless of the actual spending. This avoids creating a situation in which one method to raise earnings is to simply spend more money and be less cost efficient. Although all metrics should be based solely on a measure of *performance*, and not on spending or some other activity, using a percentage of budget is a useful approach for establishing the amount of money available. It is a good proxy for the overall level of effort involved in delivering a portfolio of programs.

We also recommend a cap on incentive earnings. It might seem attractive to omit a cap so that the utility is motivated to continue to pursue all possible cost-effective efficiency, even above 125 percent of goals. However, most jurisdictions use a cap so that the maximum ratepayer liability is known, and can ensure that the possibility for an unexpected very high rate impact cannot happen.

We suggest that the base earning incentive for program administrators be 5.0 percent of *planned and approved budgets*, once the program performs at the 100 percent PI threshold metric. The PI would then scale upward, reaching the maximum level of 7.5 percent of *planned and approved budgets* if they reach all the way to 125 percent of PI metrics targets. The proposed performance incentive mechanism framework is depicted in Figure 15.

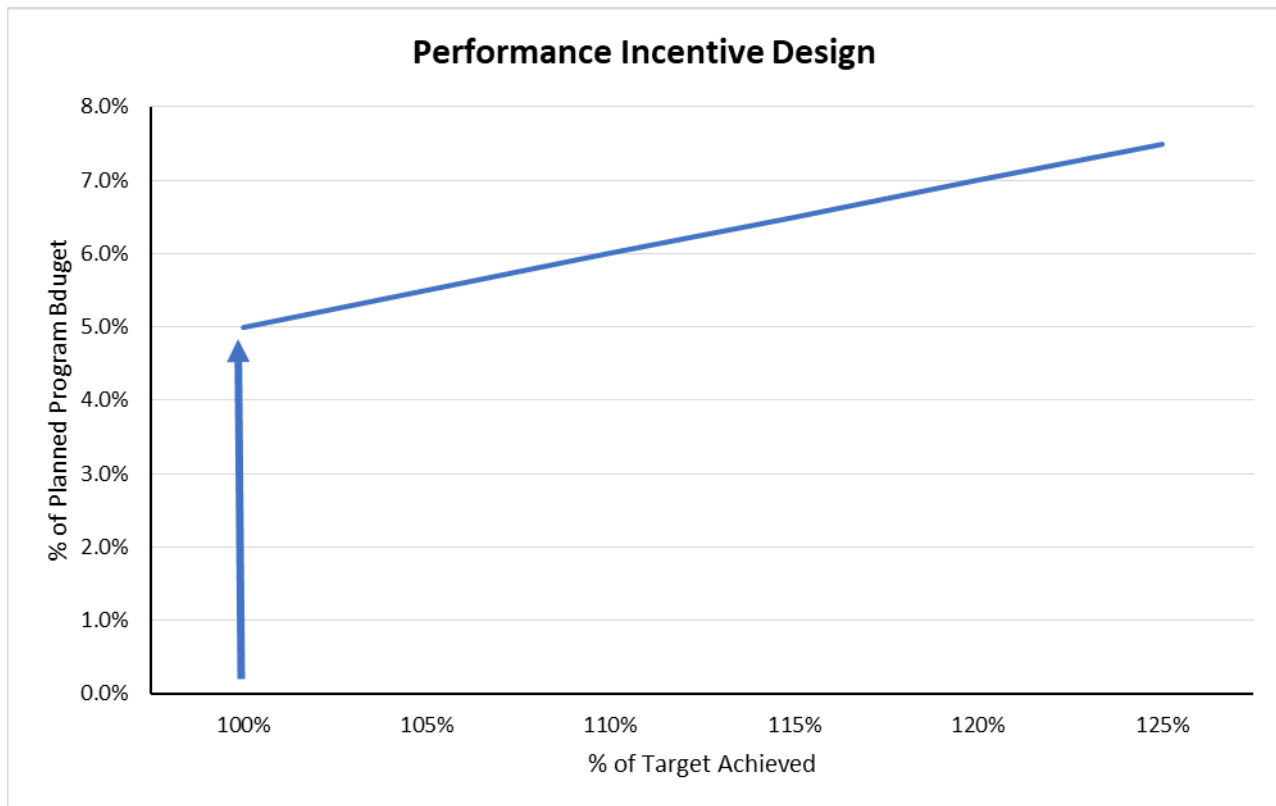


Figure 15. Design for a performance incentive, showing reward for exceeding targets.

At the maximum of 125 percent of the goal, the incentive would be 7.5 percent of earnings. Although this is lower than some utility ROEs, we believe it is consistent with current utility ROEs, especially when the risk premium required for larger and riskier supply side investments is considered. Given the linear scaling, once a utility achieves 100 percent of its performance goal(s), additional gains would be proportional. A 1 percent improvement in performance above 100 percent, would earn an additional 0.1 percent until the cap of 125 percent is reached.

For situations where a utility fails to achieve or surpass the goal, a financial penalty would be applied, as shown in Figure 16.

Unlike the positive incentive, the penalty would continue to scale all the way to a hypothetical state in which the utility failed to achieve *any savings* or other metric. We believe this is appropriate. If there is a dramatic failure in achievement, utilities should always be encouraged to make up for as much of the failure as possible and thus minimize its penalty. For the penalties, we propose a downward scaling starting at a zero percent penalty if the program has achieved 100 percent of the goal, and scaling in a straight line downward until it reaches a 2.5 percent penalty (that is, the utility is fined 2.5 percent of its planned and approved budget). This method results in the maximum penalty scaling and the maximum incentive scaling to both represent a 2.5 percent differential, compared to the base target of 100 percent of goal.

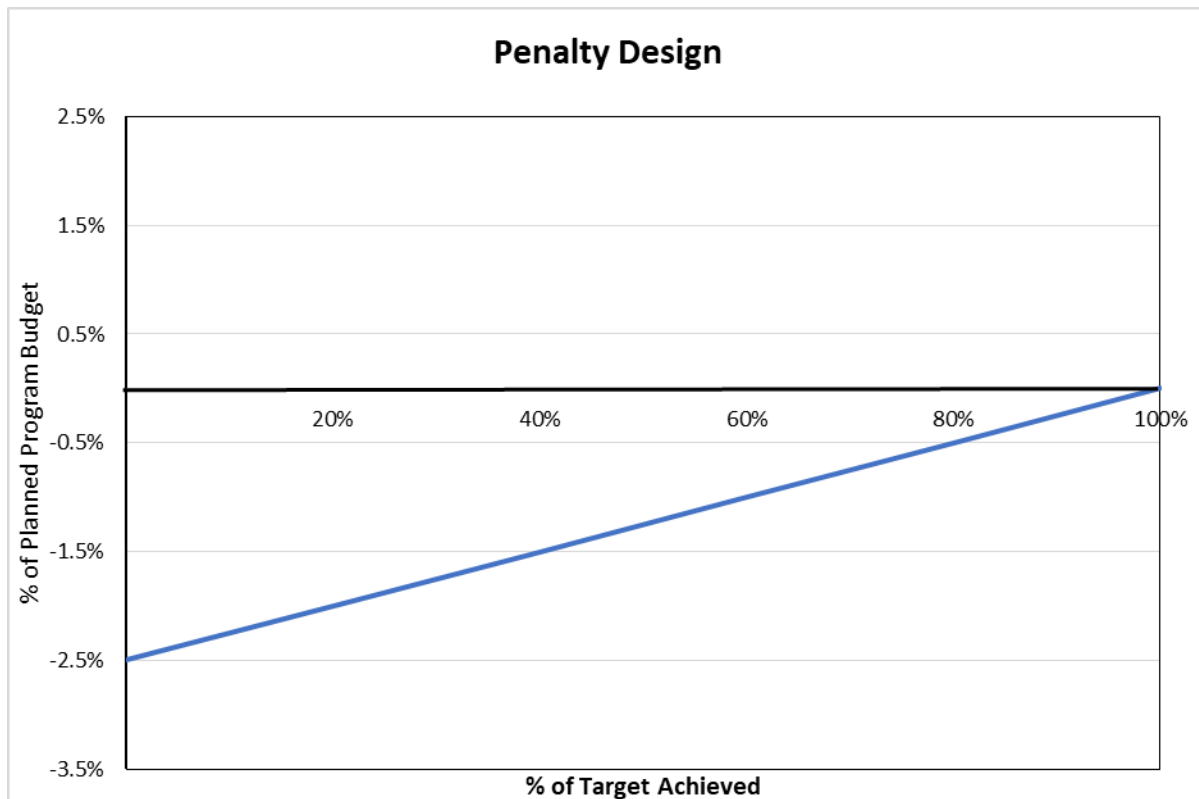


Figure 16. Design for a performance penalty, showing penalty for not meeting targets.

The Act states that

*Each electric public utility and gas public utility shall file **annually** with the board a petition to **recover on a full and current basis** through a surcharge all reasonable and prudent costs incurred...* [Emphases added.]

This seems to imply a complete settling up of all impacts on ultimate cost recovery each year. Although it seems clear from the context that “costs incurred” applies to actual program costs and any lost revenue recovery, it is less clear whether it requires complete finalization of the PI earnings resulting from the prior year’s performance in the current year. If allowable, we

recommend an approach in which the PI targets apply for the full plan period, and are based on fully evaluated and verified net impacts at the end of each plan period.

This approach provides flexibility for utilities to make midcourse corrections and to make up for an early year's poor performance in subsequent years. Especially in the first plan period this could be important, because if utilities implement the programs, they will not be accustomed to carrying out the core efficiency efforts in New Jersey. This raises the risk that some utilities could struggle with the start-up of certain program efforts. Further, it eliminates the need for annual comprehensive impact evaluations of each program. Annual impact evaluations, especially for relatively mature programs, can be burdensome, expensive, and unnecessary.⁸¹ Massachusetts originally provided annual PI earnings, but has moved to an approach where all PI awards are now based on cumulative three-year performance. Regardless of whether PIs are set and awarded annually or for some other period, we suggest that all applicable metrics (for example, savings and net benefits) be based on net evaluated impacts.

We recommend a total of eight PI metrics, with the primary weighting on savings and net benefits metrics. Table 39 summarizes our proposed approach, with greater detail on each metric following.

Table 39. Proposed approaches, target metrics, and possible corresponding PI awards

Metric	Targets	Weighting of PI \$	Notes
Annual energy savings (kWh / th)	Utility-specific QPI	10%	Ex-post evaluated net annual incremental savings for the plan period
Annual demand savings (KW / peak-day th)	Utility-specific QPI	5%	Ex-post evaluated net annual incremental peak demand savings for the plan period. Demand savings reflect "passive" demand resulting from efficiency programs, and does not include active demand management / demand response savings
Lifetime energy savings (kWh / th)	Utility-specific QPI	20%	Ex-post evaluated net cumulative lifetime savings captured during the plan period

⁸¹ Note that some form of independent verification of impacts should happen annually, but it does not need to be at the level of comprehensive impact evaluations and net-to-gross studies—for example, confirming data integrity, and alignment with the appropriate protocol's document version.

Metric	Targets	Weighting of PI \$	Notes
Lifetime of persisting demand savings (KW-yr / Peak-day th-yr)	Utility-specific QPI	10%	Ex-post evaluated net cumulative “lifetime demand savings” captured during the plan period. Lifetime demand savings are the annual peak demand achieved times the number of years the peak savings are expected to persist. Demand savings reflect “passive” demand resulting from efficiency programs, and do not include active demand management / demand response
Utility cost test NPV of net benefits (\$)	Utility-specific QPI	35%	Ex-post evaluated NPV net benefits achieved during the plan period. Benefits involve only resulting electricity / gas present value lifetime avoided-cost benefits in utility territory for the plan period. Costs include only utility-specific actual program expenditures for the plan
Low-income lifetime savings (kWh/Th)	Utility-specific QPI	7%	Ex-post evaluated net cumulative lifetime savings captured during the plan period from qualifying low income programs
Small business (less than *specified kWh / th annual load) lifetime savings (kWh / th)	Utility-specific QPI	7%	Definition of <i>small business</i> can be customized and be utility specific, where appropriate, to align with data availability (e.g., a tariff cut point)
Optional additional metric for key policy objective and relevant to utility-specific plans	Utility-specific QPI	6%	Placeholder. This can be eliminated from the first plan, or might be based on what is most appropriate to a given plan

Annual and Lifetime Savings. Lifetime savings are more important than annual savings, and will drive overall net benefits captured and long-term energy use. Attention to longer lifetimes also encourages the capture of a comprehensive mix of persisting measures, and discourages over-reliance on very-short-term savings. For example, home energy reports might appear inexpensive as an annual cost, but across the lifetime of an initiative are typically more costly than many other programs. However, we also recommend annual savings as a metric because

the Act imposes annual savings goals only. We note that because utilities will be assuring compliance with the Act, and have annual budgetary limits, the absence of a lifetime metric can create a strong and potentially perverse incentive that encourages over-reliance on measures with very short lives and marginal lifetime cost-effectiveness, if the cost per annual kWh is very low.

This study also establishes savings metrics for energy and peak demand. Peak demand has become important for several reasons. For electricity, there are issues of grid stability, and growing renewable and distributed generation. Peak-day gas demand is important because of significant supply and delivery limitations on gas during extreme winter weather events, which can affect costs for both on-site use as well electric generation. As with energy savings, how long the impacts persist is a major driver of the overall benefits. We define *peak electric demand* as coincident peak kW, as is also defined in the New Jersey Protocols. Gas peak savings are measured for peak-day therm capacity, the industry standard, and reflects storage and pipeline supply constraints. The Act calls for annual gas peak targets, and we assume the Protocols will adopt an appropriate approach and definition for development of those impacts.

All demand savings for this metric are related to “passive” demand. This approach counts durable demand savings that result from efficiency measures delivered through the efficiency programs, or from codes and standards, as applicable. It is not clear whether New Jersey utilities will be pursuing active demand (often referred to as *demand response*, but likely to be broader in nature in the near future with active Internet-connected management of customer-sited equipment and storage). We recommend that, to the extent active demand management initiatives are adopted, a separate PI metric(s) be developed for them. Active demand management impacts are typically driven by reliability needs or economics, and are used (or not used) at the discretion of the utility. These are not resources assumed to be *hypothetically* available. We believe it should have separate targets from durable and consistent demand reductions from efficiency programs.

Note that our current recommended savings targets for demand are based on what we believe to be a reasonable ratio of energy to demand savings, for a well-balanced portfolio of programs targeting the proposed levels of energy goals, and informed by the potential study results. In the future, we expect the peak demand targets, as well as the energy and utility cost test (UCT) net benefits targets, would be based on the approved utility plan targets for each of these metrics.

For all energy and demand savings metrics, we propose a combined 45 percent weighting, as shown in Table 39. This means that 45 percent of the total amount of funds dedicated to all performance incentives and penalties would be available for these metrics.

UCT Net Benefits. We acknowledge a high correlation between savings and net benefits, meaning there is some overlap in these metrics in terms of what it is encouraging. However, UCT net benefits also more directly encourage efforts at improving cost efficiency that pure savings metrics do not. In other words, if a utility can achieve its goals with less funds than planned, they will achieve higher net benefits than if they spent the entire budget. We believe that is an important consideration, and therefore have put similar weight on net benefits (35 percent), as we have for combined savings metrics. We expect that the societal cost test (SCT) will be the primary cost-effectiveness driver of what programs utilities or other program administrators

pursue. However, we propose UCT net benefits primarily because that test more effectively meets the principle of ensuring metrics are measurable and objective. It also most closely reflects the direct value to all ratepayers on overall utility costs. In our experience, total net benefits used for an SCT calculation can be both difficult to track and measure, and potentially subjective. Metrics dependent on them can result in disagreements around which benefits and costs should be included. Other disagreements might involve specific assumptions around quantifying those benefits and costs that are not readily measurable.

For example, neither utilities nor the BPU can truly know the customer contributions to efficiency investments, so these must be assumed and are highly uncertain. In addition, parties might disagree on the inclusion of, or valuation of, certain non-energy impacts, or other possible costs and benefits. UCT net benefits, on the other hand, are readily and easily measured and tracked by utilities, because their costs represent only the utility expenditures, and benefits depend only on savings and agreed-upon avoided costs.⁸² The avoided costs should be defined and held constant for the duration of the PI period for purposes of calculating incentives and penalties. Further, because the BPU charge is to protect ratepayers, the electricity and gas avoided-cost benefits can be viewed as more important and appropriate to compare with ratepayer expenditures, to ensure direct customer benefits will accrue to all ratepayers from the efficiency programs.

Non-savings or Benefits Metrics. We recommend that a few additional metrics be established, utility by utility, and as part of plan approvals. That is, they should be appropriate and applicable to the actual utility plans, and to specific key policy objectives or concerns related to pursuing those plans. We have suggested a few objectives that we believe are of universal importance as policy objectives around equity, energy burden, and environmental justice. In addition, low-income and small-business savings are typically more difficult to capture and more costly to realize than many other efficiency initiatives. Therefore, all else being equal, utilities are likely to prefer easy-to-reach customers and less expensive programs and savings. All the other metrics can only reinforce those preferences, given budget constraints. Because we believe any balanced portfolio should ensure some minimum offerings and benefits for these harder-to-reach segments, we suggest them here for initial additional metrics. However, we expect that the BPU and stakeholders will find other important policy objectives that deserve attention. In many cases, they might be dependent on the specific initiatives planned, or on problems identified from past performance and evaluations.

RECOMMENDED UTILITY TARGETS

Allocations for energy and demand savings QPIs were allocated on the same basis as were the energy efficiency allocations presented in Section 1. Allocations are shown below, first for electric utilities (Table 40 through Table 47) and then for gas utilities (Table 48 through Table 55).

⁸² Where possible, if savings from other sources besides utility-administered programs are included in overall savings and benefits, then the costs of achieving them should be included, too.

Electric Utility Targets

Table 40. Electric net annual energy savings targets, Atlantic City Electric

Year)	Net savings targets (% of load)	Net annual incremental savings targets (GWh)
2020	0.75%	71
2021	1.10%	104
2022	1.45%	136
2023	1.80%	167
2024	2.15%	198

Table 41. Electric net annual coincident peak demand savings, Atlantic City Electric

Year	Net savings targets (% of load)	Net coincident peak savings targets (MW)
2020	0.6%	15
2021	0.8%	22
2022	1.2%	30
2023	1.5%	38
2024	1.8%	45

Table 42. Electric net annual energy savings targets, JCP&L

Year	Net savings targets (% of load)	Net annual incremental savings targets (GWh)
2020	0.75%	165
2021	1.10%	241
2022	1.45%	318
2023	1.80%	396
2024	2.15%	476

Table 43. Electric net annual coincident peak demand savings, JCP&L

Year	Net savings targets (% of load)	Net coincident peak savings targets (MW)
2020	0.6%	34
2021	0.8%	50
2022	1.2%	71
2023	1.5%	90
2024	1.8%	108

Table 44. Electric net annual energy savings targets, PSE&G

Year	Net savings targets (% of load)	Net annual incremental savings targets (GWh)
2020	0.75%	313
2021	1.10%	460
2022	1.45%	609
2023	1.80%	761
2024	2.15%	916

Table 45. Electric net annual coincident peak demand savings, PSE&G

Year	Net savings targets (% of load)	Net coincident peak savings targets (MW)
2020	0.6%	64
2021	0.8%	96
2022	1.2%	135
2023	1.5%	173
2024	1.8%	208

Table 46. Electric net annual energy savings targets, Rockland Electric

Year	Net savings targets (% of load)	Net annual incremental savings targets (GWh)
2020	0.75%	19
2021	1.10%	28
2022	1.45%	37
2023	1.80%	46
2024	2.15%	55

Table 47. Electric net annual coincident peak demand savings, Rockland Electric

Year	Net savings targets (% of load)	Net coincident peak savings targets (MW)
2020	0.6%	3.9
2021	0.8%	5.8
2022	1.2%	8.1
2023	1.5%	10.5
2024	1.8%	12.4

Gas Utility Targets

Table 48. Gas net annual energy savings targets, Elizabethtown Gas

Year	Net savings targets (% of load)	Net annual incremental savings targets (BBtus)
2020	0.25%	128
2021	0.50%	256
2022	0.75%	386
2023	0.95%	493
2024	1.10%	578

Table 49. Gas net annual coincident peak demand savings targets, Elizabethtown Gas

Year	Net savings targets (% of load)	Net coincident peak savings targets (BBtus)
2020	N/A	1.6
2021	N/A	2.9
2022	N/A	4.2
2023	N/A	6.2
2024	N/A	7.3

Table 50. Gas net annual energy savings targets, New Jersey Natural Gas

Year	Net savings targets (% of load)	Net annual incremental savings targets (BBtus)
2020	0.25%	178
2021	0.50%	360
2022	0.75%	544
2023	0.95%	699
2024	1.10%	823

Table 51. Gas net annual coincident peak demand savings targets, New Jersey Natural Gas

Year	Net savings targets (% of load)	Net coincident peak savings targets (BBtus)
2020	N/A	2.3
2021	N/A	4.1
2022	N/A	6.0
2023	N/A	8.8
2024	N/A	10.4

Table 52. Gas net annual energy savings targets, PSE&G

Year	Net savings targets (% of load)	Net annual incremental savings targets (BBtus)
2020	0.25%	734
2021	0.50%	1,463
2022	0.75%	2,195
2023	0.95%	2,788
2024	1.10%	3,247

Table 53. Gas net annual coincident peak demand savings targets, PSE&G

Year	Net savings targets (% of load)	Net coincident peak savings targets (BBtus)
2020	N/A	9.3
2021	N/A	16.7
2022	N/A	24.1
2023	N/A	35.3
2024	N/A	41.1

Table 54. Gas net annual energy savings targets, South Jersey Gas

Year	Net savings targets (% of load)	Net annual incremental savings targets (BBtus)
2020	0.25%	128
2021	0.50%	256
2022	0.75%	386
2023	0.95%	493
2024	1.10%	578

Table 55. Gas net annual coincident peak demand savings targets, South Jersey Gas

Year	Net savings targets (% of load)	Net coincident peak savings targets (BBtus)
2020	N/A	1.6
2021	N/A	2.9
2022	N/A	4.2
2023	N/A	6.2
2024	N/A	7.3

NEXT STEPS

As requested, we have provided recommendations for targets and QPIs, all of which will need to be developed more fully with additional study as recommended in the literature review, and additional deliberation with stakeholders and other collaborators. The Board, appropriately, did not ask that this research provide recommendations on program administration. Determination of the structure of program administration does not necessarily fall out of a potential study, but rather should be deliberated as part of a process to develop the next stages of energy efficiency in New Jersey.

Full discussions of New Jersey's policy objectives will help to inform the final structure of QPIs and PIs, as well as best methods for amortization strategies and other cost recovery issues. Those discussions will need to be part of the full stakeholder process mentioned in the Act with the formation of the Independent Advisory Committee. These are just a few of the issues that the Board and its stakeholders will be addressing over the next months.

This study provides an appropriate and sound starting point for such discussions.

TECHNICAL APPENDICES

Appendix A: Detailed Utility Allocations

Appendix B: Energy Forecasts

Appendix C: Energy Sales Disaggregations

Appendix D: Measure Characterizations

Appendix E: Impact Factors

Appendix F: Avoided Costs

Appendix G: Load Shapes

Appendix H: Measure Penetrations

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Table A1. Allocations of Electric Potential and Targets - Atlantic City Electric

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Cumulative electric maximum achievable potential societal cost test, by sector, Atlantic City Electric, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 293	\$ 652	\$ 359	2.2
Commercial & Industrial	\$ 453	\$ 1,241	\$ 788	2.7
Total	\$ 747	\$ 1,893	\$ 1,147	2.5

Cumulative annual maximum achievable potential electric savings, by sector, by year, Atlantic City Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)
2020	138	3.1%	104	2.1%	242	2.6%
2021	268	6.0%	236	4.7%	504	5.3%
2022	312	7.0%	330	6.6%	642	6.8%
2023	370	8.3%	420	8.6%	790	8.5%
2024	366	8.2%	557	11.6%	923	9.9%
2025	341	7.6%	696	14.6%	1,037	11.2%
2026	404	8.9%	832	17.7%	1,236	13.4%
2027	465	10.2%	968	20.8%	1,434	15.6%
2028	523	11.5%	1,093	23.7%	1,617	17.6%
2029	579	12.6%	1,218	26.6%	1,796	19.6%

Incremental annual maximum achievable potential electric savings, by sector, by year, Atlantic City Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric (% Sales)
2020	138	3.1%	104	2.1%	242	2.6%
2021	170	3.8%	133	2.7%	303	3.2%
2022	87	2.0%	120	2.4%	207	2.2%
2023	99	2.2%	132	2.7%	231	2.5%
2024	110	2.4%	144	3.0%	254	2.7%
2025	114	2.5%	150	3.2%	264	2.8%
2026	112	2.5%	152	3.2%	265	2.9%
2027	112	2.5%	158	3.4%	270	2.9%
2028	112	2.5%	160	3.5%	272	3.0%
2029	110	2.4%	162	3.5%	272	3.0%

Cumulative annual maximum achievable potential electric peak demand savings, by sector, by year, Atlantic City Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.03	Not Available	0.02	Not Available	0.05	1.9%
2021	0.06	Not Available	0.05	Not Available	0.11	4.2%
2022	0.08	Not Available	0.07	Not Available	0.15	5.6%
2023	0.10	Not Available	0.08	Not Available	0.19	7.3%
2024	0.12	Not Available	0.11	Not Available	0.23	9.1%
2025	0.13	Not Available	0.14	Not Available	0.26	10.8%
2026	0.15	Not Available	0.17	Not Available	0.32	13.1%
2027	0.18	Not Available	0.19	Not Available	0.37	15.5%
2028	0.21	Not Available	0.22	Not Available	0.42	17.8%
2029	0.23	Not Available	0.24	Not Available	0.47	20.1%

Incremental annual maximum achievable potential electric peak demand savings, by sector, by year, Atlantic City Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.03	Not Available	0.02	Not Available	0.05	1.9%
2021	0.04	Not Available	0.03	Not Available	0.06	2.4%
2022	0.02	Not Available	0.02	Not Available	0.05	1.8%
2023	0.03	Not Available	0.03	Not Available	0.05	2.1%
2024	0.03	Not Available	0.03	Not Available	0.06	2.4%
2025	0.03	Not Available	0.03	Not Available	0.06	2.5%
2026	0.03	Not Available	0.03	Not Available	0.06	2.5%
2027	0.03	Not Available	0.03	Not Available	0.06	2.6%
2028	0.03	Not Available	0.03	Not Available	0.06	2.7%
2029	0.03	Not Available	0.03	Not Available	0.06	2.8%

Table A2. Allocations of Electric Potential and Targets - Jersey Central Power & Light

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Cumulative electric maximum achievable potential societal cost test, by sector, Jersey Central Power & Light, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 673	\$ 1,495	\$ 823	2.2
Commercial & Industrial	\$ 1,148	\$ 3,145	\$ 1,996	2.7
Total	\$ 1,821	\$ 4,640	\$ 2,819	2.5

Cumulative annual maximum achievable potential electric savings, by sector, by year, Jersey Central Power & Light, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)
2020	310	3.1%	249	2.1%	559	2.5%
2021	599	6.0%	565	4.7%	1,165	5.3%
2022	702	7.0%	796	6.6%	1,498	6.8%
2023	833	8.3%	1,038	8.6%	1,871	8.5%
2024	833	8.2%	1,398	11.6%	2,230	10.0%
2025	780	7.6%	1,775	14.6%	2,555	11.4%
2026	931	8.9%	2,157	17.7%	3,088	13.6%
2027	1,084	10.2%	2,555	20.8%	3,639	15.9%
2028	1,237	11.5%	2,940	23.7%	4,177	18.0%
2029	1,374	12.6%	3,320	26.6%	4,693	20.1%

Incremental annual maximum achievable potential electric savings, by sector, by year, Jersey Central Power & Light, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric (% Sales)
2020	310	3.1%	249	2.1%	559	2.5%
2021	381	3.8%	318	2.7%	700	3.2%
2022	196	2.0%	288	2.4%	484	2.2%
2023	223	2.2%	325	2.7%	549	2.5%
2024	249	2.4%	362	3.0%	612	2.7%
2025	261	2.5%	383	3.2%	644	2.9%
2026	259	2.5%	395	3.2%	654	2.9%
2027	262	2.5%	416	3.4%	677	3.0%
2028	265	2.5%	429	3.5%	694	3.0%
2029	262	2.4%	442	3.5%	704	3.0%

Cumulative annual maximum achievable potential electric peak demand savings, by sector, by year, Jersey Central Power & Light, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.06	Not Available	0.05	Not Available	0.11	1.9%
2021	0.14	Not Available	0.12	Not Available	0.25	4.2%
2022	0.18	Not Available	0.16	Not Available	0.34	5.6%
2023	0.23	Not Available	0.21	Not Available	0.44	7.3%
2024	0.26	Not Available	0.28	Not Available	0.54	9.1%
2025	0.29	Not Available	0.35	Not Available	0.64	10.8%
2026	0.35	Not Available	0.43	Not Available	0.78	13.1%
2027	0.42	Not Available	0.51	Not Available	0.93	15.5%
2028	0.49	Not Available	0.58	Not Available	1.07	17.8%
2029	0.55	Not Available	0.65	Not Available	1.21	20.1%

Incremental annual maximum achievable potential electric peak demand savings, by sector, by year, Jersey Central Power & Light, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.06	Not Available	0.05	Not Available	0.11	1.9%
2021	0.08	Not Available	0.07	Not Available	0.15	2.4%
2022	0.05	Not Available	0.06	Not Available	0.11	1.8%
2023	0.06	Not Available	0.07	Not Available	0.13	2.1%
2024	0.07	Not Available	0.07	Not Available	0.14	2.4%
2025	0.07	Not Available	0.08	Not Available	0.15	2.5%
2026	0.07	Not Available	0.08	Not Available	0.15	2.5%
2027	0.08	Not Available	0.08	Not Available	0.16	2.6%
2028	0.08	Not Available	0.09	Not Available	0.16	2.7%
2029	0.08	Not Available	0.09	Not Available	0.17	2.8%

Table A3. Allocations of Electric Potential and Targets - Public Service Electric and Gas

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Cumulative electric maximum achievable potential societal cost test, by sector, Public Service Electric and Gas, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 970	\$ 2,156	\$ 1,186	2.2
Commercial & Industrial	\$ 2,681	\$ 7,342	\$ 4,660	2.7
Total	\$ 3,651	\$ 9,498	\$ 5,847	2.6

Cumulative annual maximum achievable potential electric savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)
2020	448	3.1%	564	2.1%	1,012	2.4%
2021	869	6.0%	1,295	4.7%	2,164	5.2%
2022	1,024	7.0%	1,826	6.6%	2,850	6.8%
2023	1,216	8.3%	2,401	8.6%	3,617	8.5%
2024	1,208	8.2%	3,255	11.6%	4,463	10.4%
2025	1,130	7.6%	4,159	14.6%	5,289	12.2%
2026	1,345	8.9%	5,084	17.7%	6,429	14.7%
2027	1,554	10.2%	6,053	20.8%	7,607	17.2%
2028	1,754	11.5%	6,989	23.7%	8,743	19.5%
2029	1,947	12.6%	7,958	26.6%	9,905	21.8%

Incremental annual maximum achievable potential electric savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric (% Sales)
2020	448	3.1%	564	2.1%	1,012	2.4%
2021	553	3.8%	729	2.7%	1,282	3.1%
2022	285	2.0%	661	2.4%	946	2.2%
2023	326	2.2%	752	2.7%	1,078	2.5%
2024	362	2.4%	844	3.0%	1,206	2.8%
2025	378	2.5%	898	3.2%	1,275	2.9%
2026	374	2.5%	930	3.2%	1,304	3.0%
2027	375	2.5%	985	3.4%	1,360	3.1%
2028	376	2.5%	1,020	3.5%	1,396	3.1%
2029	371	2.4%	1,060	3.5%	1,431	3.2%

Cumulative annual maximum achievable potential electric peak demand savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.09	Not Available	0.12	Not Available	0.21	1.9%
2021	0.20	Not Available	0.27	Not Available	0.46	4.2%
2022	0.26	Not Available	0.37	Not Available	0.63	5.6%
2023	0.34	Not Available	0.48	Not Available	0.82	7.3%
2024	0.38	Not Available	0.65	Not Available	1.03	9.1%
2025	0.42	Not Available	0.83	Not Available	1.25	10.8%
2026	0.51	Not Available	1.01	Not Available	1.52	13.1%
2027	0.60	Not Available	1.20	Not Available	1.80	15.5%
2028	0.69	Not Available	1.38	Not Available	2.07	17.8%
2029	0.78	Not Available	1.57	Not Available	2.35	20.1%

Incremental annual maximum achievable potential electric peak demand savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.09	Not Available	0.12	Not Available	0.21	1.9%
2021	0.12	Not Available	0.15	Not Available	0.27	2.4%
2022	0.07	Not Available	0.13	Not Available	0.21	1.8%
2023	0.09	Not Available	0.15	Not Available	0.24	2.1%
2024	0.10	Not Available	0.17	Not Available	0.27	2.4%
2025	0.11	Not Available	0.18	Not Available	0.29	2.5%
2026	0.11	Not Available	0.19	Not Available	0.29	2.5%
2027	0.11	Not Available	0.20	Not Available	0.31	2.6%
2028	0.11	Not Available	0.20	Not Available	0.31	2.7%
2029	0.11	Not Available	0.21	Not Available	0.32	2.8%

Table A4. Allocations of Electric Potential and Targets - Rockland Electric

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Cumulative electric maximum achievable potential societal cost test, by sector, Rockland Electric, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 107	\$ 239	\$ 131	2.2
Commercial & Industrial	\$ 87	\$ 239	\$ 152	2.7
Total	\$ 195	\$ 478	\$ 283	2.5

Cumulative annual maximum achievable potential electric savings, by sector, by year, Rockland Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)	Electric (GWh)	Electric (% Sales)
2020	51	3.1%	19	2.1%	69	2.7%
2021	98	6.0%	43	4.7%	141	5.5%
2022	114	7.0%	60	6.6%	174	6.9%
2023	137	8.3%	80	8.6%	216	8.4%
2024	134	8.2%	106	11.6%	240	9.4%
2025	125	7.6%	135	14.6%	260	10.1%
2026	148	8.9%	165	17.7%	313	12.1%
2027	170	10.2%	196	20.8%	365	14.0%
2028	191	11.5%	225	23.7%	416	15.9%
2029	211	12.6%	255	26.6%	466	17.7%

Incremental annual maximum achievable potential electric savings, by sector, by year, Rockland Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric Savings (% Sector Sales)	Electric (GWh)	Electric (% Sales)
2020	51	3.1%	19	2.1%	69	2.7%
2021	63	3.8%	24	2.7%	87	3.4%
2022	32	2.0%	22	2.4%	53	2.1%
2023	37	2.2%	25	2.7%	62	2.4%
2024	40	2.4%	28	3.0%	68	2.6%
2025	42	2.5%	29	3.2%	71	2.8%
2026	41	2.5%	30	3.2%	71	2.8%
2027	41	2.5%	32	3.4%	73	2.8%
2028	41	2.5%	33	3.5%	74	2.8%
2029	40	2.4%	34	3.5%	74	2.8%

Cumulative annual maximum achievable potential electric peak demand savings, by sector, by year, Rockland Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.01	Not Available	0.00	Not Available	0.01	1.9%
2021	0.02	Not Available	0.01	Not Available	0.03	4.2%
2022	0.03	Not Available	0.01	Not Available	0.04	5.6%
2023	0.04	Not Available	0.02	Not Available	0.05	7.3%
2024	0.04	Not Available	0.02	Not Available	0.06	9.1%
2025	0.05	Not Available	0.03	Not Available	0.07	10.8%
2026	0.06	Not Available	0.03	Not Available	0.09	13.1%
2027	0.07	Not Available	0.04	Not Available	0.10	15.5%
2028	0.08	Not Available	0.04	Not Available	0.12	17.8%
2029	0.08	Not Available	0.05	Not Available	0.13	20.1%

Incremental annual maximum achievable potential electric peak demand savings, by sector, by year, Rockland Electric, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)	Electric (GW)	Electric (% Peak Demand)
2020	0.01	Not Available	0.00	Not Available	0.01	1.9%
2021	0.01	Not Available	0.01	Not Available	0.02	2.4%
2022	0.01	Not Available	0.00	Not Available	0.01	1.8%
2023	0.01	Not Available	0.01	Not Available	0.02	2.1%
2024	0.01	Not Available	0.01	Not Available	0.02	2.4%
2025	0.01	Not Available	0.01	Not Available	0.02	2.5%
2026	0.01	Not Available	0.01	Not Available	0.02	2.5%
2027	0.01	Not Available	0.01	Not Available	0.02	2.6%
2028	0.01	Not Available	0.01	Not Available	0.02	2.7%
2029	0.01	Not Available	0.01	Not Available	0.02	2.8%

Table A5. Allocations of Natural Gas Potential and Targets - Elizabethtown Gas

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Cumulative gas maximum achievable potential societal cost test, by sector, Elizabethtown Gas, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 91	\$ 202	\$ 111	2.2
Commercial & Industrial	\$ 197	\$ 543	\$ 346	2.8
Total	\$ 288	\$ 745	\$ 458	2.6

Cumulative annual maximum achievable potential gas savings, by sector, by year, Elizabethtown Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	178	0.7%	261	1.0%	439	0.9%
2021	211	0.9%	581	2.2%	792	1.5%
2022	367	1.5%	969	3.6%	1,336	2.6%
2023	550	2.2%	1,417	5.1%	1,966	3.8%
2024	839	3.3%	1,918	6.9%	2,757	5.2%
2025	1,162	4.6%	2,445	8.7%	3,606	6.7%
2026	1,388	5.4%	2,979	10.4%	4,367	8.0%
2027	1,621	6.2%	3,523	12.2%	5,144	9.3%
2028	1,858	7.0%	4,064	13.8%	5,922	10.6%
2029	2,100	7.8%	4,610	15.5%	6,710	11.9%

Incremental annual maximum achievable potential gas savings, by sector, by year, Elizabethtown Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	178	0.7%	261	1.0%	439	0.9%
2021	169	0.7%	318	1.2%	487	0.9%
2022	294	1.2%	383	1.4%	677	1.3%
2023	321	1.3%	442	1.6%	763	1.5%
2024	352	1.4%	494	1.8%	846	1.6%
2025	362	1.4%	516	1.8%	878	1.6%
2026	370	1.4%	531	1.9%	901	1.7%
2027	378	1.4%	546	1.9%	924	1.7%
2028	385	1.4%	562	1.9%	946	1.7%
2029	390	1.5%	575	1.9%	965	1.7%

Cumulative annual maximum achievable potential gas peak demand savings, by sector, by year, Elizabethtown Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	2.25	Not Available	3.31	Not Available	5.56	Not Available
2021	2.67	Not Available	7.35	Not Available	10.02	Not Available
2022	4.65	Not Available	12.26	Not Available	16.91	Not Available
2023	6.96	Not Available	17.93	Not Available	24.89	Not Available
2024	10.62	Not Available	24.28	Not Available	34.90	Not Available
2025	14.71	Not Available	30.94	Not Available	45.65	Not Available
2026	17.57	Not Available	37.71	Not Available	55.28	Not Available
2027	20.52	Not Available	44.60	Not Available	65.11	Not Available
2028	23.52	Not Available	51.44	Not Available	74.97	Not Available
2029	26.59	Not Available	58.35	Not Available	84.94	Not Available

Incremental annual maximum achievable potential gas peak demand savings, by sector, by year, Elizabethtown Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	2.25	Not Available	3.31	Not Available	5.56	Not Available
2021	2.13	Not Available	4.03	Not Available	6.16	Not Available
2022	3.72	Not Available	4.85	Not Available	8.57	Not Available
2023	4.06	Not Available	5.60	Not Available	9.66	Not Available
2024	4.45	Not Available	6.26	Not Available	10.71	Not Available
2025	4.58	Not Available	6.53	Not Available	11.11	Not Available
2026	4.68	Not Available	6.72	Not Available	11.40	Not Available
2027	4.78	Not Available	6.92	Not Available	11.70	Not Available
2028	4.87	Not Available	7.11	Not Available	11.98	Not Available
2029	4.94	Not Available	7.27	Not Available	12.22	Not Available

Table A6. Allocations of Natural Gas Potential and Targets - New Jersey Natural Gas

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Cumulative gas maximum achievable potential societal cost test, by sector, New Jersey Natural Gas, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 190	\$ 423	\$ 233	2.2
Commercial & Industrial	\$ 162	\$ 447	\$ 285	2.8
Total	\$ 352	\$ 870	\$ 518	2.5

Cumulative annual maximum achievable potential gas savings, by sector, by year, New Jersey Natural Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	358	0.7%	218	1.0%	576	0.8%
2021	428	0.9%	484	2.2%	912	1.3%
2022	752	1.5%	804	3.6%	1,556	2.1%
2023	1,136	2.2%	1,172	5.1%	2,308	3.1%
2024	1,747	3.3%	1,582	6.9%	3,329	4.4%
2025	2,439	4.6%	2,009	8.7%	4,448	5.8%
2026	2,937	5.4%	2,440	10.4%	5,377	6.9%
2027	3,455	6.2%	2,876	12.2%	6,332	8.0%
2028	3,993	7.0%	3,306	13.8%	7,300	9.0%
2029	4,548	7.8%	3,738	15.5%	8,286	10.1%

Incremental annual maximum achievable potential gas savings, by sector, by year, New Jersey Natural Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	358	0.7%	218	1.0%	576	0.8%
2021	343	0.7%	265	1.2%	608	0.8%
2022	602	1.2%	318	1.4%	921	1.3%
2023	663	1.3%	366	1.6%	1,029	1.4%
2024	733	1.4%	408	1.8%	1,141	1.5%
2025	759	1.4%	424	1.8%	1,183	1.5%
2026	782	1.4%	435	1.9%	1,217	1.6%
2027	806	1.4%	446	1.9%	1,252	1.6%
2028	826	1.4%	457	1.9%	1,283	1.6%
2029	845	1.5%	466	1.9%	1,311	1.6%

Cumulative annual maximum achievable potential gas peak demand savings, by sector, by year, New Jersey Natural Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	4.53	Not Available	2.75	Not Available	7.29	Not Available
2021	5.42	Not Available	6.12	Not Available	11.55	Not Available
2022	9.52	Not Available	10.18	Not Available	19.70	Not Available
2023	14.38	Not Available	14.84	Not Available	29.22	Not Available
2024	22.12	Not Available	20.03	Not Available	42.14	Not Available
2025	30.88	Not Available	25.43	Not Available	56.31	Not Available
2026	37.17	Not Available	30.89	Not Available	68.06	Not Available
2027	43.74	Not Available	36.41	Not Available	80.15	Not Available
2028	50.55	Not Available	41.85	Not Available	92.40	Not Available
2029	57.57	Not Available	47.32	Not Available	104.89	Not Available

Incremental annual maximum achievable potential gas peak demand savings, by sector, by year, New Jersey Natural Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	4.53	Not Available	2.75	Not Available	7.29	Not Available
2021	4.34	Not Available	3.36	Not Available	7.69	Not Available
2022	7.62	Not Available	4.03	Not Available	11.65	Not Available
2023	8.39	Not Available	4.63	Not Available	13.02	Not Available
2024	9.28	Not Available	5.16	Not Available	14.44	Not Available
2025	9.61	Not Available	5.37	Not Available	14.98	Not Available
2026	9.90	Not Available	5.51	Not Available	15.41	Not Available
2027	10.20	Not Available	5.65	Not Available	15.84	Not Available
2028	10.46	Not Available	5.78	Not Available	16.24	Not Available
2029	10.70	Not Available	5.90	Not Available	16.60	Not Available

Table A7. Allocations of Natural Gas Potential and Targets - Public Service Electric and Gas

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Cumulative gas maximum achievable potential societal cost test, by sector, Public Service Electric and Gas, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 549	\$ 1,223	\$ 674	2.2
Commercial & Industrial	\$ 1,018	\$ 2,807	\$ 1,789	2.8
Total	\$ 1,566	\$ 4,029	\$ 2,463	2.6

Cumulative annual maximum achievable potential gas savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	1,099	0.7%	1,401	1.0%	2,500	0.9%
2021	1,293	0.9%	3,090	2.2%	4,383	1.5%
2022	2,255	1.5%	5,110	3.6%	7,365	2.5%
2023	3,360	2.2%	7,417	5.1%	10,776	3.6%
2024	5,099	3.3%	9,962	6.9%	15,061	5.1%
2025	7,024	4.6%	12,590	8.7%	19,615	6.5%
2026	8,345	5.4%	15,218	10.4%	23,563	7.8%
2027	9,690	6.2%	17,851	12.2%	27,541	9.1%
2028	11,049	7.0%	20,422	13.8%	31,471	10.3%
2029	12,419	7.8%	22,976	15.5%	35,395	11.5%

Incremental annual maximum achievable potential gas savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	1,099	0.7%	1,401	1.0%	2,500	0.9%
2021	1,035	0.7%	1,693	1.2%	2,728	0.9%
2022	1,805	1.2%	2,023	1.4%	3,828	1.3%
2023	1,961	1.3%	2,316	1.6%	4,276	1.4%
2024	2,139	1.4%	2,568	1.8%	4,707	1.6%
2025	2,186	1.4%	2,658	1.8%	4,844	1.6%
2026	2,223	1.4%	2,713	1.9%	4,935	1.6%
2027	2,259	1.4%	2,768	1.9%	5,027	1.7%
2028	2,286	1.4%	2,822	1.9%	5,109	1.7%
2029	2,308	1.5%	2,864	1.9%	5,172	1.7%

Cumulative annual maximum achievable potential gas peak demand savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	13.91	Not Available	17.73	Not Available	31.64	Not Available
2021	16.36	Not Available	39.12	Not Available	55.48	Not Available
2022	28.54	Not Available	64.69	Not Available	93.23	Not Available
2023	42.53	Not Available	93.88	Not Available	136.41	Not Available
2024	64.54	Not Available	126.10	Not Available	190.65	Not Available
2025	88.92	Not Available	159.37	Not Available	248.29	Not Available
2026	105.63	Not Available	192.63	Not Available	298.26	Not Available
2027	122.66	Not Available	225.96	Not Available	348.62	Not Available
2028	139.87	Not Available	258.51	Not Available	398.37	Not Available
2029	157.20	Not Available	290.84	Not Available	448.04	Not Available

Incremental annual maximum achievable potential gas peak demand savings, by sector, by year, Public Service Electric and Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	13.91	Not Available	17.73	Not Available	31.64	Not Available
2021	13.10	Not Available	21.43	Not Available	34.53	Not Available
2022	22.85	Not Available	25.61	Not Available	48.46	Not Available
2023	24.82	Not Available	29.31	Not Available	54.13	Not Available
2024	27.08	Not Available	32.50	Not Available	59.58	Not Available
2025	27.67	Not Available	33.65	Not Available	61.31	Not Available
2026	28.13	Not Available	34.34	Not Available	62.47	Not Available
2027	28.59	Not Available	35.04	Not Available	63.63	Not Available
2028	28.94	Not Available	35.73	Not Available	64.67	Not Available
2029	29.22	Not Available	36.25	Not Available	65.47	Not Available

Table A8. Allocations of Natural Gas Potential and Targets - South Jersey Gas

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Cumulative gas maximum achievable potential societal cost test, by sector, South Jersey Gas, 2029

Sector/Program	Costs (Millions \$)	Benefits (Millions \$)	Net Benefits (Millions \$)	BCR
Residential	\$ 95	\$ 211	\$ 117	2.2
Commercial & Industrial	\$ 189	\$ 520	\$ 332	2.8
Total	\$ 284	\$ 732	\$ 448	2.6

Cumulative annual maximum achievable potential gas savings, by sector, by year, South Jersey Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	186	0.7%	250	1.0%	437	0.9%
2021	220	0.9%	557	2.2%	777	1.5%
2022	384	1.5%	928	3.6%	1,312	2.5%
2023	575	2.2%	1,357	5.1%	1,932	3.7%
2024	877	3.3%	1,838	6.9%	2,716	5.1%
2025	1,216	4.6%	2,342	8.7%	3,558	6.6%
2026	1,452	5.4%	2,854	10.4%	4,306	7.9%
2027	1,695	6.2%	3,376	12.2%	5,071	9.2%
2028	1,944	7.0%	3,894	13.8%	5,838	10.4%
2029	2,197	7.8%	4,417	15.5%	6,614	11.7%

Incremental annual maximum achievable potential gas savings, by sector, by year, South Jersey Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sector Sales)	Natural Gas (BBtu)	Gas Savings (% Sales)
2020	186	0.7%	250	1.0%	437	0.9%
2021	176	0.7%	305	1.2%	481	0.9%
2022	307	1.2%	367	1.4%	675	1.3%
2023	336	1.3%	424	1.6%	759	1.4%
2024	368	1.4%	474	1.8%	842	1.6%
2025	378	1.4%	494	1.8%	873	1.6%
2026	387	1.4%	509	1.9%	896	1.6%
2027	395	1.4%	523	1.9%	919	1.7%
2028	402	1.4%	538	1.9%	940	1.7%
2029	408	1.5%	551	1.9%	959	1.7%

Cumulative annual maximum achievable potential gas peak demand savings, by sector, by year, South Jersey Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	2.36	Not Available	3.17	Not Available	5.53	Not Available
2021	2.79	Not Available	7.05	Not Available	9.84	Not Available
2022	4.86	Not Available	11.75	Not Available	16.61	Not Available
2023	7.28	Not Available	17.18	Not Available	24.46	Not Available
2024	11.11	Not Available	23.27	Not Available	34.37	Not Available
2025	15.39	Not Available	29.65	Not Available	45.04	Not Available
2026	18.38	Not Available	36.13	Not Available	54.51	Not Available
2027	21.46	Not Available	42.73	Not Available	64.19	Not Available
2028	24.61	Not Available	49.29	Not Available	73.90	Not Available
2029	27.81	Not Available	55.91	Not Available	83.72	Not Available

Incremental annual maximum achievable potential gas peak demand savings, by sector, by year, South Jersey Gas, 2020 – 2029

Year	Residential		Commercial & Industrial		Total	
	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)	Gas (BBtuh)	Gas (% Peak Demand)
2020	2.36	Not Available	3.17	Not Available	5.53	Not Available
2021	2.23	Not Available	3.86	Not Available	6.09	Not Available
2022	3.89	Not Available	4.65	Not Available	8.54	Not Available
2023	4.25	Not Available	5.36	Not Available	9.61	Not Available
2024	4.66	Not Available	6.00	Not Available	10.66	Not Available
2025	4.79	Not Available	6.26	Not Available	11.05	Not Available
2026	4.90	Not Available	6.44	Not Available	11.34	Not Available
2027	5.00	Not Available	6.63	Not Available	11.63	Not Available
2028	5.09	Not Available	6.81	Not Available	11.90	Not Available
2029	5.17	Not Available	6.97	Not Available	12.14	Not Available

Table B1. Statewide Electric Energy Forecast

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Electric Energy (MWh), at generation, adjusted for embedded efficiency										
Sector	Year									
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential	30,624,240	30,624,240	30,620,361	30,873,150	31,139,524	31,424,152	31,687,431	31,964,983	32,290,498	32,660,096
Commercial	41,314,808	41,314,808	41,598,502	41,690,385	41,975,569	42,334,177	42,707,878	43,089,084	43,484,553	43,899,800
Industrial	3,805,075	3,805,075	3,843,274	3,868,064	3,907,404	3,929,145	3,961,285	3,994,493	4,029,176	4,070,285

Table B2. Statewide Electric Demand Forecast

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Electric Demand (MW), at generation										
Sector	Year									
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total	20,746	20,632	20,626	20,590	20,633	20,643	20,673	20,668	20,678	20,697

Table B3. Statewide Natural Gas Forecast
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Natural Gas (MMBtu), adjusted for embedded efficiency										
Sector	Year									
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Residential	248,683,682	248,683,682	250,787,170	254,536,572	257,333,663	260,195,731	263,096,904	266,037,819	269,019,122	272,041,470
Commercial	158,118,239	158,118,239	158,840,459	160,014,790	161,188,486	162,387,137	163,596,077	164,815,408	166,045,233	167,285,654
Industrial	60,262,451	60,262,451	60,513,712	60,882,864	61,247,974	61,630,525	62,017,400	62,408,652	62,804,337	63,204,512

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200	EUR	217	207	Strategic Scenario Management: Year 2 with Gas Separation Unit	0	0	Total Emissions	Total Gas	Strategic Scenario Management	Industrial Facility with H2	Industrial Facility with CO2	2020	2025	0.10	0.20	20	40	40
201	EUR	431	411	Strategic Scenario Management: Year 3 with Gas Separation Unit	0	0	Total Emissions	Total Gas	Strategic Scenario Management	Industrial Facility with H2	Industrial Facility with CO2	2020	2025	0.10	0.20	40	80	80

Table D2. Measure Characteristics Sources

[Return to List of Tables](#)

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131	Int Delamping, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.090	0.090	0.085	0.188	0.028	0.067	0.128	0.043	0.081	0.081	0.033	0.000
132	Int Delamping, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.447	0.447	0.408	0.384	0.391	0.235	0.352	0.118	0.308	0.308	0.202	0.000
133	Stair Occ Sensor, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.012	0.012	0.011	0.011	0.021	0.005	0.008	0.006	0.008	0.008	0.006	0.000
134	Stair Occ Sensor, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.005	0.005	0.005	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	Stair Occ Sensor, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.024	0.024	0.022	0.023	0.021	0.013	0.019	0.006	0.019	0.019	0.011	0.000
136	Refrig Case LED, Com, E - Intl	0.000	0.000	0.000	0.000	0.010	0.010	0.020	0.100	0.020	0.020	0.010	0.010	0.100	0.100	0.010	0.000
137	Refrig Case Ctrlrs, Com, E - Intl	0.000	0.000	0.000	0.000	0.010	0.010	0.020	0.100	0.020	0.020	0.010	0.010	0.100	0.100	0.010	0.000
138	Repl pin CFL wLED, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.005	0.005	0.011	0.000	0.037	0.006	0.009	0.033	0.005	0.005	0.001	0.000
139	Repl pin CFL wLED, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.002	0.002	0.004	0.000	0.003	0.005	0.008	0.013	0.003	0.003	0.000	0.000
140	Repl pin CFL wLED, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.009	0.009	0.020	0.090	0.027	0.017	0.021	0.035	0.012	0.012	0.002	0.000
141	LED Tube Repl, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.228	0.228	0.212	0.178	0.393	0.084	0.143	0.112	0.136	0.136	0.114	0.000
142	LED Tube Repl, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.090	0.090	0.085	0.188	0.028	0.067	0.128	0.043	0.081	0.081	0.033	0.000
143	LED Tube Repl, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.447	0.447	0.408	0.384	0.391	0.235	0.352	0.118	0.308	0.308	0.202	0.000
144	Lin LED Fixture, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.228	0.228	0.212	0.178	0.393	0.084	0.143	0.112	0.136	0.136	0.114	0.000
145	Lin LED Fixture, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.090	0.090	0.085	0.188	0.028	0.067	0.128	0.043	0.081	0.081	0.033	0.000
146	Lin LED Fixture, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.447	0.447	0.408	0.384	0.391	0.235	0.352	0.118	0.308	0.308	0.202	0.000
147	Repl Scre, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.028	0.028	0.038	0.038	0.020	0.105	0.054	0.208	0.055	0.055	0.011	0.000
148	Repl Scre, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.011	0.011	0.015	0.021	0.001	0.083	0.048	0.079	0.033	0.033	0.003	0.000
149	Repl Scre, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.056	0.056	0.072	0.044	0.020	0.293	0.133	0.217	0.124	0.124	0.019	0.000
150	LED Hilo Bay, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.019	0.019	0.014	0.002	0.000	0.000	0.000	0.000	0.016	0.016	0.006	0.000
151	LED Hilo Bay, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.008	0.008	0.005	0.002	0.000	0.000	0.000	0.000	0.010	0.010	0.053	0.000
152	LED Hilo Bay, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.038	0.038	0.026	0.005	0.000	0.000	0.000	0.000	0.037	0.037	0.026	0.000
153	Exit Sign RefFit, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.005	0.005	0.004	0.001	0.003	0.004	0.010	0.004	0.004	0.004	0.006	0.000
154	Exit Sign RefFit, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.001	0.000	0.003	0.009	0.002	0.003	0.003	0.002	0.000
155	Exit Sign RefFit, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.010	0.010	0.008	0.002	0.003	0.011	0.024	0.004	0.009	0.009	0.010	0.000
156	Int Ltg Ctrlrs, Com, E - Intl [No Heat]	0.000	0.000	0.000	0.000	0.297	0.297	0.300	0.237	0.482	0.217	0.227	0.411	0.257	0.257	0.325	0.000
157	Int Ltg Ctrlrs, Com, E - Intl [Electric Heat]	0.000	0.000	0.000	0.000	0.117	0.117	0.120	0.251	0.034	0.172	0.204	0.156	0.155	0.155	0.093	0.000
158	Int Ltg Ctrlrs, Com, E/G - Intl	0.000	0.000	0.000	0.000	0.578	0.578	0.574	0.511	0.481	0.603	0.552	0.429	0.581	0.581	0.573	0.000
159	Ext Ltg Dgmn, Com, E - Extl	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
160	Ext Ltg Ctrlrs, Com, E - Extl	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
161	Street Ltg, Com, E - Extl	0.000	0.000	0.000	0.000	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.000
162	Ext Area Ltg, Com, E - Extl	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.000
163	Minisplit Ductless HP, Com, E - Cool	0.000	0.000	0.000	0.000	0.184	0.027	0.073	0.025	0.070	0.072	0.023	0.494	0.092	0.014	0.049	0.000
164	Minisplit Ductless HP, Com, E - Heat	0.000	0.000	0.000	0.000	0.349	0.802	0.456	0.744	0.697	0.595	0.569	0.472	0.329	0.890	0.128	0.000
165	PTHP, Com, E - Cool	0.000	0.000	0.000	0.000	0.184	0.027	0.073	0.025	0.070	0.072	0.023	0.494	0.092	0.014	0.049	0.000
166	PTHP, Com, E - Heat	0.000	0.000	0.000	0.000	0.349	0.802	0.456	0.744	0.697	0.595	0.569	0.472	0.329	0.890	0.128	0.000
167	Unitary HP, Com, E - Cool	0.000	0.000	0.000	0.000	0.156	0.174	0.279	0.048	0.057	0.147	0.172	0.138	0.097	0.135	0.395	0.000
168	Unitary HP, Com, E - Heat	0.000	0.000	0.000	0.000	0.651	0.198	0.544	0.256	0.184	0.405	0.431	0.528	0.671	0.110	0.872	0.000
169	Com GSHP, Com, E - Cool	0.000	0.000	0.000	0.000	0.156	0.174	0.279	0.048	0.057	0.147	0.172	0.138	0.097	0.135	0.395	0.000
170	Com GSHP, Com, E - Heat	0.000	0.000	0.000	0.000	0.651	0.198	0.544	0.256	0.184	0.405	0.431	0.528	0.671	0.110	0.872	0.000
171	Cool Roof, Com, E - Cool [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.000
172	Cool Roof, Com, E - Heat [Building w Elec Heat]	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
173	Cool Roof, Com, E - Cool [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.000
174	Cool Roof, Com, G - Heat [Building w Gas Heat]	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
175	Optimized Chiller Sys, Com, E - Cool	0.000	0.000	0.000	0.000	0.000	0.591	0.250	0.000	0.805	0.000	0.135	0.000	0.000	0.000	0.000	0.000
176	Optimized Unitary AC Sys, Com, E - Cool [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.175	0.055	0.106	0.246	0.018	0.207	0.178	0.082	0.215	0.188	0.147	0.000
177	Optimized Unitary AC Sys, Com, E - Heat [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.830	0.310	0.570	0.430	0.180	0.630	0.570	0.730	0.830	0.150	0.930	0.000
178	Optimized Unitary AC Sys, Com, E - Cool [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.485	0.153	0.485	0.153	0.485	0.153	0.485	0.153	0.485	0.153	0.485	0.000
179	Optimized Unitary AC Sys, Com, G - Heat [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.230	0.030	0.080	0.590	0.890	0.940	0.530	0.190	0.340	0.210	0.630	0.000
180	Controls for Unitary AC, Com, E - Cool	0.000	0.000	0.000	0.000	0.660	0.208	0.398	0.927	0.068	0.782	0.670	0.308	0.811	0.709	0.555	0.000
181	DCV, Com, E - Cool [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.108	0.129	0.123	0.129	0.123	0.000	0.130	0.067	0.120	0.131	0.126	0.000
182	DCV, Com, E - Heat [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.415	0.157	0.373	0.207	0.092	0.000	0.286	0.335	0.414	0.074	0.467	0.000
183	DCV, Com, E - Vent [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.133	0.133	0.133	0.133	0.133	0.000	0.133	0.133	0.133	0.133	0.133	0.000
184	DCV, Com, E - Cool [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.000
185	DCV, Com, G - Heat [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.494	0.494	0.493	0.381	0.508	0.508	0.462	0.485	0.471	0.471	0.380	0.000
186	DCV, Com, E - Vent [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.367	0.367	0.367	0.367	0.367	0.000	0.367	0.367	0.367	0.367	0.367	0.000
187	AC Tuneup, Com, E - Cool [ASHP]	0.000	0.000	0.000	0.000	0.156	0.174	0.279	0.048	0.057	0.147	0.172	0.138	0.097	0.135	0.395	0.000
188	AC Tuneup, Com, E - Heat [ASHP]	0.000	0.000	0.000	0.000	0.651	0.198	0.544	0.256	0.184	0.405	0.431	0.528	0.671	0.110	0.872	0.000
189	AC Tuneup, Com, E - Cool [Unitary AC]	0.000	0.000	0.000	0.000	0.660	0.208	0.398	0.927	0.068	0.782	0.670	0.308	0.811	0.709	0.555	0.000
190	Guest Room EM, Com, E - Cool [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
191	Guest Room EM, Com, E - Heat [Building w Elec Heat]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
192	Guest Room EM, Com, E - Cool [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.735	0.000	0.000	0.000
193	Guest Room EM, Com, G - Heat [Building w Gas Heat]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000
194	Unitary Equipment Economizer, Com, E - Cool	0.000	0.000	0.000	0.000	0.816	0.382	0.677	0.975	0.125	0.928	0.842	0.506	0.908	0.844	0.951	0.000
195	PTAC, Com, E - Cool	0.000	0.000	0.000	0.000	0.184	0.027	0.073	0.025	0.070	0.072	0.023	0.494	0.092	0.014	0.049	

266	Integrated Building Design, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
267	Commissioning, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270
268	Commissioning, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740
269	Commissioning, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
270	Rx, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270	0.270
271	Rx, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740	0.740
272	Rx, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
273	Data Center, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.042	0.042	0.042	0.000	0.042	0.000	0.042	0.000	0.042	0.000	0.000	0.042	0.000	0.000
274	Data Center, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.115	0.115	0.115	0.000	0.115	0.000	0.115	0.000	0.115	0.000	0.000	0.115	0.000	0.000
275	Data Center, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.000	0.010	0.000	0.010	0.000	0.010	0.000	0.000	0.010	0.000	0.000
276	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
277	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207
278	Pneumatic to DDC, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
279	Power Strip, Com, E - Plug [Tier 1]	0.000	0.000	0.000	0.000	0.164	0.164	0.197	0.142	0.173	0.102	0.151	0.057	0.142	0.142	0.142	0.147	0.147	0.000
280	Power Strip, Com, E - Plug [Tier 2]	0.000	0.000	0.000	0.000	0.164	0.164	0.197	0.142	0.173	0.102	0.151	0.057	0.142	0.142	0.142	0.147	0.147	0.000
281	Computer Power Management, Com, E - Plug	0.000	0.000	0.000	0.000	0.360	0.360	0.554	0.201	0.349	0.116	0.276	0.124	0.201	0.201	0.259	0.000	0.000	0.000
282	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	0.000	0.000	0.000	0.000	0.007	0.007	0.015	0.026	0.011	0.030	0.007	0.019	0.026	0.026	0.022	0.000	0.000	0.000
283	Vending Machine Controls, Com, E - Plug (Refrigerated)	0.000	0.000	0.000	0.000	0.021	0.045	0.032	0.088	0.032	0.078	0.028	0.078	0.078	0.078	0.085	0.000	0.000	0.000
284	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
285	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
286	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.216	0.101	0.180	0.259	0.033	0.246	0.223	0.134	0.241	0.224	0.252	0.000	0.000	0.000
287	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588
288	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
289	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.289	0.289	0.493	0.717	0.042	0.318	0.272	0.160	0.367	0.282	0.668	0.000	0.000	0.000
290	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.011	0.023	0.013	0.011	0.005	0.050	0.000	0.027	0.000	0.002	0.001	0.001	0.001	0.001
291	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.009	0.041	0.022	0.043	0.020	0.715	0.001	0.101	0.000	0.007	0.002	0.000	0.000	0.000
292	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.006	0.030	0.009	0.031	0.015	0.250	0.000	0.074	0.000	0.005	0.001	0.000	0.000	0.000
293	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.009	0.041	0.012	0.043	0.020	0.715	0.001	0.101	0.000	0.007	0.002	0.000	0.000	0.000
294	VFD on HVAC System, Com, E - Vent	0.000	0.000	0.000	0.000	0.760	0.950	0.800	0.770	0.950	0.760	0.950	0.780	0.750	0.820	0.850	0.000	0.000	0.000
295	ECM Furnace Motors, Com, E - Vent	0.000	0.000	0.000	0.000	0.088	0.088	0.125	0.100	0.125	0.100	0.125	0.088	0.088	0.125	0.150	0.000	0.000	0.000
296	Motors and Fans, Com, E - Vent	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
297	Window Film, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265
298	Window Film, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
299	Window Film, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
300	Window Film, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
301	Windows, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265	0.265
302	Windows, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
303	Windows, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735	0.735
304	Windows, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
305	Steam Trap Maintenance, Com, G - Heat	0.000	0.000	0.000	0.000	0.122	0.168	0.159	0.031	0.020	0.005	0.070	0.137	0.070	0.129	0.023	0.000	0.000	0.000
306	Infrared Heat, Com, G - Heat	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
307	Forced Air Heating Maintenance, Com, G - Heat	0.000	0.000	0.000	0.000	0.227	0.028	0.076	0.585	0.086	0.939	0.526	0.186	0.344	0.211	0.630	0.000	0.000	0.000
308	Energy Recovery Ventilator, Com, G - Heat	0.000	0.000	0.000	0.000	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400
309	Destratification Fans, Com, G - Heat	0.000	0.000	0.000	0.000	0.000	0.000	0.200	0.250	0.000	0.500	0.000	0.250	0.000	0.500	1.000	0.000	0.000	0.000
310	Unit Heater, Com, G - Heat	0.000	0.000	0.000	0.000	0.077	0.011	0.014	0.235	0.000	0.033	0.075	0.029	0.256	0.052	0.235	0.000	0.000	0.000
311	Furnace, Com, G - Heat	0.000	0.000	0.000	0.000	0.227	0.028	0.076	0.585	0.086	0.939	0.526	0.186	0.344	0.211	0.630	0.000	0.000	0.000
312	Bollers, Com, G - Heat	0.000	0.000	0.000	0.000	0.695	0.961	0.910	0.178	0.114	0.028	0.399	0.785	0.398	0.717	0.131	0.000	0.000	0.000
313	Boller Modifications, Com, G - Heat	0.000	0.000	0.000	0.000	0.695	0.961	0.910	0.178	0.114	0.028	0.399	0.785	0.398	0.717	0.131	0.000	0.000	0.000
314	Boller Bypass Controls, Com, G - Heat	0.000	0.000	0.000	0.000	0.695	0.961	0.910	0.178	0.114	0.028	0.399	0.785	0.398	0.717	0.131	0.000	0.000	0.000
315	Smart TStat, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.265	0.108	0.199	0.265	0.052	0.265	0.229	0.265	0.228	0.265	0.265	0.000	0.000	0.000
316	Smart TStat, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.305	0.039	0.090	0.822	0.886	0.972	0.601	0.215	0.602	0.263	0.869	0.000	0.000	0.000
317	Smart TStat, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.735	0.300	0.551	0.735	0.144	0.735	0.635	0.735	0.735	0.630	0.735	0.000	0.000	0.000
318	Smart TStat, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.305	0.039	0.090	0.822	0.886	0.972	0.601	0.215	0.602	0.263	0.869	0.000	0.000	0.000
319	Programmable TStat, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.265	0.108	0.199	0.265	0.052	0.265	0.229	0.265	0.265	0.228	0.265	0.000	0.000	0.000
320	Programmable TStat, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.305	0.039	0.090	0.822	0.886	0.972	0.601	0.215	0.602	0.263	0.869	0.000	0.000	0.000
321	Programmable TStat, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.735	0.300	0.551	0.735	0.144	0.735	0.635	0.735	0.735	0.630	0.735	0.000	0.000	0.000
322	Programmable TStat, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.305	0.039	0.090	0.822	0.886	0.972	0.601	0.215	0.602	0.263	0.869	0.000	0.000	0.000
323	Indus Pro Drives, Ind, E - Driv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
324	Indus Pro Motors and VSDs, Ind, E - Mtr (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Table E2. Measure Feasibility
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	Measure Name ID	Single Family	Multifamily	LI Single Family	LI Multifamily	Small Office	Large Office	Education	Grocery	Hospital	Food Service	Health Services	Lodging	Small Retail	Large Retail	Warehouse	Industrial
1	ES LED_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	ES LED_Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	ES LED_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	ES LED_Res-E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	ES LED_Res,E-Extl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	ES LED Globe Lamp,Int_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	ES LED Globe Lamp,Int_Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	ES LED Globe Lamp,MF Com_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	ES LED Globe Lamp,MF Com_Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	ES LED Globe Lamp,Cat_Res,E-Extl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	ES LED PAR[Flood]Lamp,Int_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	ES LED PAR[Flood]Lamp,Int_Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	ES LED PAR[Flood],MF Com_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	ES LED PAR[Flood],MF Com_Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	ES LED Outdoor Fixture,Ext_Res,E-Extl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	ES LED Downlight Fixture,Int_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	ES LED Downlight Fixture,Int_Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	ES LED Downlight Fixture,MF_Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	ES LED Downlight Fixture,MF_Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	ES LED Outdoor Fixture,Res,E-Extl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	ES Ceiling Fan w/Lights,Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	ES Ceiling Fan,Res,E-Oth.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	Ext Lighting Controls,Res,E-Extl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	LED Holiday Lights,Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	LED Holiday Lights,Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	LED Holiday Lights,Res,E-Extl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	LED Tube Replacement Lamps,Res,E/G-Intl.	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	LED Tube Replacement Lamps,Res,E-Intl.[Electric Heat]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	ES Clothes Washer,Res,E-Appl.[Elec DHW/Elec Dry,SF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	ES Clothes Washer,Res,E-HWat.[Elec DHW/Elec Dry,SF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32	ES Clothes Washer,Res,E/G-Appl.[Elec DHW/Gas Dry,SF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
33	ES Clothes Washer,Res,E-HWat.[Elec DHW/Gas Dry,SF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
34	ES Clothes Washer,Res,E-G-Appl.[Gas DHW/Gas Dry,SF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	ES Clothes Washer,Res,E/G-Appl.[Gas DHW/Gas Dry,SF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
36	ES Clothes Washer,Res,G-HWat.[Gas DHW/Gas Dry,SF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37	ES Clothes Washer,MF_Res,E-Appl.[Elec DHW/Elec Dry,MF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
38	ES Clothes Washer,MF_Res,E-HWat.[Elec DHW/Elec Dry,MF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
39	ES Clothes Washer,MF_Res,E/G-Appl.[Elec DHW/Gas Dry,MF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	ES Clothes Washer,MF_Res,E-HWat.[Elec DHW/Gas Dry,MF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41	ES Clothes Washer,MF_Res,E/G-Appl.[Gas DHW/Elec Dry,MF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42	ES Clothes Washer,MF_Res,E/G-Appl.[Gas DHW/Gas Dry,MF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
43	ES Clothes Washer,MF_Res,G-HWat.[Gas DHW/Gas Dry,MF]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
44	ECM Circ Pump,Res,E-Oth.[DHW]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	ECM Circ Pump,Res,E-Oth.[Cooling Water]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46	ECM Circ Pump,Res,E-Oth.[Heating Water]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
47	HER,Res,E-ToT	0.950	0.950	0.950	0.950	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
48	HER,Res,G-ToTg	0.950	0.950	0.950	0.950	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	ES Dehumidifier,Res,E-Appl	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	ES Dishwasher,Res,E-Appl.[Elec Water Heating]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
51	ES Dishwasher,Res,E-HWat.[Elec Water Heating]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
52	ES Dishwasher,Res,E/G-Appl.[Gas Water Heating]	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
53	Tier 2 Power Strip,Res,E-Plug	0.750	0.750	0.750	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
54	Variable Speed Pool Pump,Res,E-Oth	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	ECM Blower Motor,Res,E/G-Oth	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
56	WR Jacket Insulation,Res,E-HWat	0.900	0.900	0.900	0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
57	WR Drainpipe Heat Exchange,Res,E-HWat	0.250	0.250	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
58	WH Setback,Res,E-HWat	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
59	Faucet Aerator,Res,E-HWat	0.850	0.850	0.850	0.850	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	Low Flow Showerhead,Res,E-HWat	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
61	Thermo Restrict Valve,Res,E-HWat	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
62	HPWH,Res,E-HWat [≥55 gal Elec Space Heat]	0.900	0.900	0.900	0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
63	HPWH,Res,E/G-HWat [≥55 gal Gas Space Heat]	0.900	0.900	0.900	0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
64	HPWH,Res,E-HWat [≤55 gal Elec Space Heat]	0.900	0.900	0.900	0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	HPWH,Res,E/G-HWat [≤55 gal Gas Space Heat]	0.900	0.900	0.900	0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66	Attic Insulation,Res,E-Heat [Elec Heating]	0.750	0.750	0.750	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0		

[illegible]

266	Integrated Building Design, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
267	Commissioning, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
268	Commissioning, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
269	Commissioning, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
270	Rx_Cool, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
271	Rx_Cool, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
272	Rx_Cool, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
273	Data Center, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
274	Data Center, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
275	Data Center, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
276	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
277	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
278	Pneumatic to DDC, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
279	Power Strip, Com, E - Plug [Tier 1]	0.000	0.000	0.000	0.000	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
280	Power Strip, Com, E - Plug [Tier 2]	0.000	0.000	0.000	0.000	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750	0.750
281	Computer Power Management, Com, E - Plug	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
282	Vending Machine Controls, Com, E - Plug [Non-Refrigerated]	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
283	Vending Machine Controls, Com, E - Plug [Refrigerated]	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
284	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
285	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
286	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
287	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
288	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
289	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
290	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
291	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
292	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
293	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
294	ECM Furnace Motors, Com, E - Vent	0.000	0.000	0.000	0.000	0.245	0.292	0.278	0.293	0.279	0.278	0.293	0.152	0.272	0.296	0.285	0.000
295	VFD Furnace Motors, Com, E - Vent	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
296	Motor Fan, Com, E - Vent	0.000	0.000	0.000	0.000	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.940	0.000
297	Window Film, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
298	Window Film, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
299	Window Film, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
300	Window Film, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
301	Windows, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
302	Windows, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
303	Windows, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
304	Windows, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.000
305	Steam Trap Maintenance, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
306	Infrared Heater, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
307	Forced Air Heating Maintenance, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
308	Energy Recovery Ventilator, Com, G - Heat	0.000	0.000	0.000	0.000	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.000
309	Destruction Fans, Com, G - Heat	0.000	0.000	0.000	0.000	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.000
310	Unit Heater, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
311	Furnace, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
312	Boilers, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
313	Boiler Modifications, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
314	Boiler Blowdown Controls, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
315	Smart TStat, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
316	Smart TStat, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
317	Smart TStat, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
318	Smart TStat, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
319	Programmable TStat, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
320	Programmable TStat, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
321	Programmable TStat, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
322	Programmable TStat, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000
323	Indus Pro Drives, Ind, E - Drv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
324	Indus Pro Motors and VSDs, Ind, E - Motr (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
325	Indus Pro Air Compressor System, Ind, E - CAS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
326	Indus Pro Elec Process Cooling, Ind, E - PRC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
327	Indus Pro Elec Process Heat, Ind, E - PPH	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
328	Indus Pro Elec Other, Ind, E - Oth	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
329	Indus Pro NG Process Heat, Ind, G - PHH	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
330	Indus Pro NG Process Cool, Ind, G - PRC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800
331	Indus Pro NG Other, Ind, G - Oth																

Table E3. Measure Retrofit Not Complete
[Return to List of Tables](#)

[illegible]

[illegible]

266	Integrated Building Design, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
267	Commissioning, Com, E - TorE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
268	Commissioning, Com, E - TorE (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
269	Commissioning, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
270	Rx, Com, E - TorE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
271	Rx, Com, E - TorE (Building w Gas Heat)	0.000	0.000	0.000	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
272	Rx, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985
273	Data Center, Com, E - TorE (Building w Elec Heat)	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
274	Data Center, Com, E - TorE (Building w Gas Heat)	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
275	Data Center, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
276	Pneumatic to DDC, Com, E - TorE (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
277	Pneumatic to DDC, Com, E - TorE (Building w Gas Heat)	0.000	0.000	0.000	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
278	Pneumatic to DDC, Com, G - TotG (Building w Gas Heat)	0.000	0.000	0.000	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
279	Power Strip, Com, E - Plug [Tier 1]	0.000	0.000	0.000	0.000	0.978	0.949	0.984	0.981	0.954	0.956	0.976	0.978	0.947	0.970	0.822	0.000
280	Power Strip, Com, E - Plug [Tier 2]	0.000	0.000	0.000	0.000	0.978	0.949	0.984	0.981	0.954	0.956	0.976	0.978	0.947	0.970	0.822	0.000
281	Computer Power Management, Com, E - Plug	0.000	0.000	0.000	0.000	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650	0.650
282	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
283	Vending Machine Controls, Com, E - Plug (Refrigerated)	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
284	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	0.000	0.000	0.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
285	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
286	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
287	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	0.000	0.000	0.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
288	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
289	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
290	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730
291	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730
292	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730
293	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730	0.730
294	VFD on HVAC System, Com, E - Vent	0.000	0.000	0.000	0.000	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861
295	ECM Furnace Motors, Com, E - Vent	0.000	0.000	0.000	0.000	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
296	Motor and Fan, Com, E - Vent	0.000	0.000	0.000	0.000	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990
297	Window Film, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
298	Window Film, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
299	Window Film, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
300	Window Film, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
301	Windows, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
302	Windows, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
303	Windows, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
304	Windows, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
305	Steam Trap Maintenance, Com, G - Heat	0.000	0.000	0.000	0.000	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
306	Infrared Heat, Com, G - Heat	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.950	0.000
307	Forced Air Heating Maintenance, Com, G - Heat	0.000	0.000	0.000	0.000	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.000
308	Energy Recovery Ventilator, Com, G - Heat	0.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
309	Destratification Fans, Com, G - Heat	0.000	0.000	0.000	0.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
310	Unit Heater, Com, G - Heat	0.000	0.000	0.000	0.000	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
311	Furnace, Com, G - Heat	0.000	0.000	0.000	0.000	0.590	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390
312	Boilers, Com, G - Heat	0.000	0.000	0.000	0.000	0.894	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590	0.590
313	Boiler Modifications, Com, G - Heat	0.000	0.000	0.000	0.000	0.534	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334
314	Boiler Bypass Control, Com, G - Heat	0.000	0.000	0.000	0.000	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677	0.677
315	Smart TStat, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451
316	Smart TStat, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451
317	Smart TStat, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451
318	Smart TStat, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451
319	Programmable TStat, Com, E - Cool (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294
320	Programmable TStat, Com, E - Heat (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382
321	Programmable TStat, Com, E - Cool (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294	0.294
322	Programmable TStat, Com, G - Heat (Building w Gas Heat)	0.000	0.000	0.000	0.000	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382	0.382
323	Indus Pro Drives, Ind, E - Driv	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
324	Indus Pro Motors and VSDs, Ind, E - Mtr (Building w Elec Heat)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
325	Indus Pro Air Compressor System, Ind, E - CAS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
326	Indus Pro Process Control, Ind, E - PnC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
327	Indus Pro Elec Process Heat, Ind, E - Prr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
328	Indus Pro Elec Other, Ind, E - Oth	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
329	Indus Pro NG Process Heat, Ind, G - Prr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
330	Indus Pro NG Process Cool, Ind, G - Prr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.780
331	Indus Pro NG Other, Ind, G - Oth	0															

Table F1. Electric Avoided Costs[Return to List of Tables](#)**Electric Avoided Costs (2019\$)**

Year	Period/Type					
	Summer On Peak (\$/kWh)	Summer Off Peak (\$/kWh)	Non-Summer On Peak (\$/kWh)	Non-Summer Off Peak (\$/kWh)	Summer Gener. Capacity (\$/kW-yr)	T&D Capacity (\$/kW-yr)
2020	0.03	0.02	0.03	0.03	58.82	67.03
2021	0.03	0.02	0.03	0.03	69.45	67.03
2022	0.03	0.02	0.04	0.03	71.12	67.03
2023	0.03	0.03	0.04	0.03	72.88	67.03
2024	0.03	0.03	0.04	0.03	74.65	67.03
2025	0.04	0.03	0.04	0.03	76.43	67.03
2026	0.03	0.03	0.04	0.03	78.18	67.03
2027	0.04	0.03	0.04	0.03	79.95	67.03
2028	0.04	0.03	0.04	0.04	81.67	67.03
2029	0.04	0.03	0.04	0.04	83.41	67.03
2030	0.04	0.03	0.05	0.04	85.21	67.03
2031	0.04	0.03	0.05	0.04	87.06	67.03
2032	0.04	0.03	0.05	0.04	88.97	67.03
2033	0.04	0.03	0.05	0.04	90.95	67.03
2034	0.04	0.03	0.05	0.04	92.99	67.03
2035	0.04	0.03	0.05	0.04	95.09	67.03
2036	0.04	0.04	0.05	0.04	97.28	67.03
2037	0.04	0.04	0.05	0.04	99.51	67.03
2038	0.05	0.04	0.05	0.04	101.77	67.03
2039	0.05	0.04	0.05	0.04	104.12	67.03
2040	0.05	0.04	0.06	0.05	106.52	67.03
2041	0.05	0.04	0.06	0.05	106.52	67.03
2042	0.05	0.04	0.06	0.05	106.52	67.03
2043	0.05	0.04	0.06	0.05	106.52	67.03
2044	0.05	0.04	0.06	0.05	106.52	67.03
2045	0.05	0.04	0.06	0.05	106.52	67.03
2046	0.05	0.04	0.06	0.05	106.52	67.03
2047	0.05	0.04	0.06	0.05	106.52	67.03
2048	0.05	0.04	0.06	0.05	106.52	67.03
2049	0.05	0.04	0.06	0.05	106.52	67.03
2050	0.05	0.04	0.06	0.05	106.52	67.03
2051	0.05	0.04	0.06	0.05	106.52	67.03
2052	0.05	0.04	0.06	0.05	106.52	67.03
2053	0.05	0.04	0.06	0.05	106.52	67.03
2054	0.05	0.04	0.06	0.05	106.52	67.03
2055	0.05	0.04	0.06	0.05	106.52	67.03
2056	0.05	0.04	0.06	0.05	106.52	67.03
2057	0.05	0.04	0.06	0.05	106.52	67.03

2058	0.05	0.04	0.06	0.05	106.52	67.03
2059	0.05	0.04	0.06	0.05	106.52	67.03

Table F2. Natural Gas Avoided Costs[Return to List of Tables](#)**Natural Gas Avoided Costs (2019\$)**

Year	\$/MMBtu
2020	6.35
2021	6.41
2022	6.56
2023	6.82
2024	7.06
2025	7.34
2026	7.51
2027	7.69
2028	7.84
2029	8.04
2030	8.17
2031	8.30
2032	8.45
2033	8.58
2034	8.72
2035	8.84
2036	9.14
2037	9.31
2038	9.58
2039	9.83
2040	10.04
2041	10.04
2042	10.04
2043	10.04
2044	10.04
2045	10.04
2046	10.04
2047	10.04
2048	10.04
2049	10.04
2050	10.04
2051	10.04
2052	10.04
2053	10.04
2054	10.04
2055	10.04
2056	10.04
2057	10.04
2058	10.04
2059	10.04

Table G1. Electric Load Shapes

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Load Shape Name	Summer On Peak Energy	Summer Off Peak Energy	Non-Summer On-Peak Energy	Non-Summer Off Peak Energy	Summer Gener. Capacity	T&D Capacity
OTHER LOAD SHAPES						
CHP	15.7%	26.2%	21.5%	36.6%	0.913	0.913
COMMERCIAL LOAD SHAPES						
Education_Cooking	25.6%	9.5%	47.8%	17.1%	0.321	0.321
Education_Cooling	87.2%	7.4%	5.3%	0.0%	0.994	0.994
Education_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Education_Interior Lighting	22.2%	12.4%	43.2%	22.2%	0.376	0.376
Education_Other	20.6%	14.1%	40.6%	24.7%	0.334	0.334
Education_Plug Loads	17.9%	16.5%	37.1%	28.6%	0.341	0.341
Education_Refrigeration	21.7%	22.4%	27.3%	28.5%	0.952	0.952
Education_Space Heating	0.0%	0.1%	53.1%	46.8%	0.000	0.000
Education_Total Electric	28.9%	11.5%	35.2%	24.3%	0.419	0.419
Education_Ventilation	20.5%	23.2%	27.0%	29.4%	0.597	0.597
Education_Water Heating	30.4%	8.0%	48.4%	13.1%	0.506	0.506
Food Service_Cooking	27.2%	14.9%	37.5%	20.4%	0.890	0.890
Food Service_Cooling	51.4%	39.8%	6.3%	2.5%	0.999	0.999
Food Service_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Food Service_Interior Lighting	25.0%	17.0%	34.6%	23.4%	0.983	0.983
Food Service_Other	23.7%	18.4%	32.7%	25.2%	0.977	0.977
Food Service_Plug Loads	21.9%	20.0%	30.5%	27.6%	0.989	0.989
Food Service_Refrigeration	20.8%	21.2%	28.9%	29.2%	0.975	0.975
Food Service_Space Heating	0.0%	0.4%	34.2%	65.4%	0.000	0.000
Food Service_Total Electric	26.5%	23.1%	26.8%	23.7%	0.894	0.894
Food Service_Ventilation	21.3%	23.4%	26.9%	28.3%	0.961	0.961
Food Service_Water Heating	23.7%	14.1%	39.1%	23.1%	0.673	0.673
Grocery_Cooking	23.2%	18.9%	32.0%	25.9%	0.734	0.734
Grocery_Cooling	52.3%	39.7%	5.9%	2.2%	0.998	0.998
Grocery_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Grocery_Interior Lighting	23.9%	18.1%	33.1%	24.9%	0.986	0.986
Grocery_Other	21.5%	20.5%	29.8%	28.2%	0.988	0.988
Grocery_Plug Loads	21.7%	20.3%	30.1%	27.9%	0.993	0.993
Grocery_Refrigeration	21.7%	22.4%	27.3%	28.5%	0.952	0.952
Grocery_Space Heating	0.0%	0.4%	31.5%	68.1%	0.000	0.000
Grocery_Total Electric	24.7%	23.2%	26.5%	25.6%	0.896	0.896
Grocery_Ventilation	20.1%	22.2%	27.6%	30.1%	0.997	0.997
Grocery_Water Heating	23.0%	14.7%	38.0%	24.2%	0.699	0.699
Health Service_Cooking	31.9%	10.3%	43.9%	14.0%	0.569	0.569
Health Service_Cooling	87.2%	12.3%	0.5%	0.1%	0.997	0.997
Health Service_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Health Service_Interior Lighting	28.2%	13.9%	38.9%	19.0%	0.684	0.684
Health Service_Other	25.8%	16.2%	35.7%	22.3%	0.738	0.738
Health Service_Plug Loads	23.1%	18.9%	32.1%	26.0%	0.818	0.818
Health Service_Refrigeration	21.0%	21.0%	29.2%	28.9%	0.988	0.988
Health Service_Space Heating	0.0%	0.0%	46.9%	53.1%	0.000	0.000
Health Service_Total Electric	30.5%	13.3%	33.6%	22.5%	0.645	0.645
Health Service_Ventilation	20.9%	21.0%	28.0%	30.1%	0.638	0.638
Health Service_Water Heating	23.6%	14.1%	39.1%	23.2%	0.730	0.730

Hospital_Cooking	23.8%	18.1%	33.2%	24.9%	0.708	0.708
Hospital_Cooling	46.3%	38.1%	8.4%	7.2%	0.992	0.992
Hospital_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Hospital_Interior Lighting	22.3%	19.6%	31.1%	27.0%	0.910	0.910
Hospital_Other	22.1%	19.8%	30.8%	27.3%	0.858	0.858
Hospital_Plug Loads	21.7%	20.2%	30.3%	27.8%	0.921	0.921
Hospital_Refrigeration	20.7%	21.2%	28.9%	29.2%	0.940	0.940
Hospital_Space Heating	0.3%	1.1%	35.1%	63.5%	0.088	0.088
Hospital_Total Electric	27.5%	24.6%	24.8%	23.1%	0.792	0.792
Hospital_Ventilation	19.9%	21.9%	27.8%	30.4%	0.880	0.880
Hospital_Water Heating	20.9%	16.7%	34.9%	27.5%	0.603	0.603
Large Office_Cooking	31.6%	10.3%	43.9%	14.2%	0.670	0.670
Large Office_Cooling	65.4%	12.6%	16.9%	5.2%	0.984	0.984
Large Office_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Large Office_Interior Lighting	26.9%	15.0%	37.5%	20.7%	0.872	0.872
Large Office_Other	24.9%	17.0%	34.6%	23.5%	0.807	0.807
Large Office_Plug Loads	22.7%	19.2%	31.6%	26.5%	0.893	0.893
Large Office_Refrigeration	20.8%	21.2%	28.9%	29.1%	0.928	0.928
Large Office_Space Heating	0.0%	0.0%	57.2%	42.8%	0.000	0.000
Large Office_Total Electric	32.5%	14.5%	31.7%	21.4%	0.742	0.742
Large Office_Ventilation	20.6%	17.4%	30.4%	31.7%	0.702	0.702
Large Office_Water Heating	19.1%	18.5%	31.8%	30.6%	0.686	0.686
Large Retail_Cooking	29.4%	12.7%	40.5%	17.3%	0.970	0.970
Large Retail_Cooling	69.0%	31.0%	0.0%	0.0%	0.993	0.993
Large Retail_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Large Retail_Interior Lighting	26.4%	15.6%	36.5%	21.4%	1.000	1.000
Large Retail_Other	24.6%	17.4%	34.1%	23.9%	1.000	1.000
Large Retail_Plug Loads	22.0%	20.0%	30.5%	27.5%	0.998	0.998
Large Retail_Refrigeration	20.7%	21.2%	28.9%	29.2%	0.988	0.988
Large Retail_Space Heating	0.0%	0.0%	60.4%	39.5%	0.000	0.000
Large Retail_Total Electric	36.4%	19.8%	24.3%	19.5%	0.685	0.685
Large Retail_Ventilation	19.9%	25.3%	25.9%	28.9%	0.628	0.628
Large Retail_Water Heating	23.7%	14.1%	39.2%	23.1%	0.694	0.694
Lodging_Cooking	26.3%	15.6%	36.7%	21.4%	0.933	0.933
Lodging_Cooling	59.9%	39.6%	0.4%	0.1%	1.000	1.000
Lodging_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Lodging_Interior Lighting	22.4%	19.5%	31.2%	26.9%	0.790	0.790
Lodging_Other	22.6%	19.3%	31.5%	26.6%	0.927	0.927
Lodging_Plug Loads	21.1%	20.8%	29.4%	28.7%	0.972	0.972
Lodging_Refrigeration	20.9%	21.0%	29.2%	28.9%	0.993	0.993
Lodging_Space Heating	0.0%	0.2%	34.7%	65.1%	0.000	0.000
Lodging_Total Electric	29.6%	25.1%	22.7%	22.6%	0.712	0.712
Lodging_Ventilation	20.1%	22.2%	27.6%	30.1%	0.997	0.997
Lodging_Water Heating	21.1%	16.5%	35.3%	27.1%	0.730	0.730
RefrigWarehouse_Cooking	35.5%	6.6%	48.8%	9.1%	0.666	0.666
RefrigWarehouse_Cooling	58.9%	41.1%	0.0%	0.0%	1.000	1.000
RefrigWarehouse_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
RefrigWarehouse_Interior Lighting	30.4%	11.6%	42.0%	16.0%	0.775	0.775
RefrigWarehouse_Other	29.7%	12.3%	41.0%	17.0%	0.864	0.864
RefrigWarehouse_Plug Loads	23.8%	18.2%	33.0%	25.0%	0.854	0.854
RefrigWarehouse_Refrigeration	21.8%	22.6%	27.2%	28.4%	0.951	0.951
RefrigWarehouse_Space Heating	0.0%	0.0%	40.1%	59.9%	0.000	0.000
RefrigWarehouse_Total Electric	22.7%	21.7%	28.3%	27.2%	0.905	0.905

RefrigWarehouse_Ventilation	20.3%	22.4%	27.5%	29.8%	0.994	0.994
RefrigWarehouse_Water Heating	26.5%	11.2%	43.8%	18.5%	0.629	0.629
Small Office_Cooking	35.1%	6.7%	48.9%	9.3%	0.606	0.606
Small Office_Cooling	79.5%	13.5%	6.8%	0.2%	0.998	0.998
Small Office_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Small Office_Interior Lighting	32.9%	9.0%	45.7%	12.4%	0.739	0.739
Small Office_Other	27.6%	14.3%	38.4%	19.7%	0.754	0.754
Small Office_Plug Loads	23.9%	18.0%	33.2%	24.9%	0.847	0.847
Small Office_Refrigeration	20.8%	21.1%	29.0%	29.1%	0.928	0.928
Small Office_Space Heating	0.0%	0.0%	50.6%	49.4%	0.000	0.000
Small Office_Total Electric	36.8%	12.9%	33.5%	16.7%	0.706	0.706
Small Office_Ventilation	20.7%	22.8%	27.2%	29.3%	0.809	0.809
Small Office_Water Heating	19.4%	18.3%	32.3%	30.1%	0.705	0.705
Small Retail_Cooking	34.5%	7.6%	47.5%	10.4%	0.795	0.795
Small Retail_Cooling	68.5%	17.3%	12.4%	1.8%	1.000	1.000
Small Retail_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Small Retail_Interior Lighting	30.3%	11.7%	41.8%	16.1%	0.890	0.890
Small Retail_Other	27.2%	14.9%	37.6%	20.4%	0.903	0.903
Small Retail_Plug Loads	23.8%	18.1%	33.1%	25.0%	0.930	0.930
Small Retail_Refrigeration	21.0%	21.0%	29.2%	28.9%	0.988	0.988
Small Retail_Space Heating	0.0%	0.0%	28.4%	71.5%	0.000	0.000
Small Retail_Total Electric	34.3%	15.6%	32.1%	18.0%	0.846	0.846
Small Retail_Ventilation	21.8%	23.7%	26.4%	28.0%	0.659	0.659
Small Retail_Water Heating	23.6%	14.1%	39.1%	23.2%	0.730	0.730
Warehouse_Cooking	35.5%	6.6%	48.8%	9.1%	0.666	0.666
Warehouse_Cooling	59.3%	40.7%	0.0%	0.0%	1.000	1.000
Warehouse_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Warehouse_Interior Lighting	30.4%	11.6%	42.0%	16.0%	0.775	0.775
Warehouse_Other	29.7%	12.3%	41.0%	17.0%	0.864	0.864
Warehouse_Plug Loads	23.8%	18.2%	33.0%	25.0%	0.854	0.854
Warehouse_Refrigeration	21.7%	20.3%	30.2%	27.9%	0.967	0.967
Warehouse_Space Heating	0.0%	0.1%	40.6%	59.3%	0.000	0.000
Warehouse_Total Electric	27.1%	17.5%	33.7%	21.6%	0.757	0.757
Warehouse_Ventilation	20.5%	22.6%	27.3%	29.6%	0.990	0.990
Warehouse_Water Heating	26.5%	11.2%	43.8%	18.5%	0.629	0.629
Education_Other-VFD	20.6%	14.1%	40.6%	24.7%	0.100	0.100
Education_Ventilation-VFD	20.5%	23.2%	27.0%	29.4%	0.100	0.100
Food Service_Other-VFD	23.7%	18.4%	32.7%	25.2%	0.100	0.100
Food Service_Ventilation-VFD	21.3%	23.4%	26.9%	28.3%	0.100	0.100
Grocery_Other-VFD	21.5%	20.5%	29.8%	28.2%	0.100	0.100
Grocery_Ventilation-VFD	20.1%	22.2%	27.6%	30.1%	0.100	0.100
Health Service_Other-VFD	25.8%	16.2%	35.7%	22.3%	0.100	0.100
Health Service_Ventilation-VFD	20.9%	21.0%	28.0%	30.1%	0.100	0.100
Hospital_Other-VFD	22.1%	19.8%	30.8%	27.3%	0.100	0.100
Hospital_Ventilation-VFD	19.9%	21.9%	27.8%	30.4%	0.100	0.100
Large Office_Other-VFD	24.9%	17.0%	34.6%	23.5%	0.100	0.100
Large Office_Ventilation-VFD	20.6%	17.4%	30.4%	31.7%	0.100	0.100
Large Retail_Other-VFD	24.6%	17.4%	34.1%	23.9%	0.100	0.100
Large Retail_Ventilation-VFD	19.9%	25.3%	25.9%	28.9%	0.100	0.100
Lodging_Other-VFD	22.6%	19.3%	31.5%	26.6%	0.100	0.100
Lodging_Ventilation-VFD	20.1%	22.2%	27.6%	30.1%	0.100	0.100
RefrigWarehouse_Other-VFD	29.7%	12.3%	41.0%	17.0%	0.100	0.100
RefrigWarehouse_Ventilation-VFD	20.3%	22.4%	27.5%	29.8%	0.100	0.100

Small Office_Other-VFD	27.6%	14.3%	38.4%	19.7%	0.100	0.100
Small Office_Ventilation-VFD	20.7%	22.8%	27.2%	29.3%	0.100	0.100
Small Retail_Other-VFD	27.2%	14.9%	37.6%	20.4%	0.100	0.100
Small Retail_Ventilation-VFD	21.8%	23.7%	26.4%	28.0%	0.100	0.100
Warehouse_Other-VFD	29.7%	12.3%	41.0%	17.0%	0.100	0.100
Warehouse_Ventilation-VFD	20.5%	22.6%	27.3%	29.6%	0.100	0.100
RESIDENTIAL LOAD SHAPES						
Single Family_Clothes Dryer	23.6%	14.6%	38.4%	23.3%	0.466	0.466
Single Family_Clothes Washer	20.8%	16.9%	34.6%	27.7%	0.392	0.392
Single Family_Cooking	21.8%	15.2%	37.4%	25.6%	0.394	0.394
Single Family_Cooling	56.8%	43.0%	0.1%	0.1%	0.642	0.642
Single Family_Dishwasher	23.3%	15.5%	37.0%	24.2%	0.471	0.471
Single Family_Other	19.5%	22.4%	27.3%	30.8%	0.851	0.851
Single Family_Plug Loads	21.6%	20.3%	30.2%	27.9%	0.759	0.759
Single Family_Refrigeration	21.5%	23.3%	26.6%	28.6%	0.873	0.873
Single Family_Space Heating	1.2%	1.8%	43.0%	54.0%	0.014	0.014
Single Family_Total Electric	25.0%	23.0%	26.9%	25.1%	0.416	0.416
Single Family_Water Heating	18.6%	17.6%	33.1%	30.7%	0.325	0.325
Single Family_Interior Lighting	18.4%	17.7%	34.8%	29.1%	0.178	0.178
Single Family_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
Multifamily_Clothes Dryer	24.5%	13.8%	39.8%	22.0%	0.473	0.473
Multifamily_Clothes Washer	21.5%	16.2%	35.8%	26.5%	0.401	0.401
Multifamily_Cooking	22.5%	14.5%	38.7%	24.3%	0.398	0.398
Multifamily_Cooling	56.0%	43.7%	0.1%	0.1%	1.000	1.000
Multifamily_Dishwasher	24.3%	14.5%	38.6%	22.6%	0.503	0.503
Multifamily_Other	20.3%	21.7%	28.3%	29.8%	0.871	0.871
Multifamily_Plug Loads	21.4%	20.5%	29.8%	28.3%	0.801	0.801
Multifamily_Refrigeration	21.5%	23.3%	26.6%	28.6%	0.873	0.873
Multifamily_Space Heating	1.9%	2.3%	45.3%	50.5%	0.038	0.038
Multifamily_Total Electric	24.4%	22.7%	27.5%	25.5%	0.644	0.644
Multifamily_Water Heating	18.9%	17.3%	33.6%	30.2%	0.312	0.312
Multifamily_Interior Lighting	17.9%	18.4%	33.7%	30.0%	0.186	0.186
Multifamily_Exterior Lighting	9.8%	27.1%	20.2%	42.9%	0.106	0.106
INDUSTRIAL LOAD SHAPES						
Industrial_CompIndustrial	31.3%	2.1%	62.4%	4.2%	0.450	0.450
Industrial_Interior Lighting	29.0%	4.4%	57.8%	8.8%	0.729	0.729
Industrial_Cooling	46.0%	26.0%	18.0%	10.0%	0.810	0.810
Industrial_Space Heating	27.1%	17.5%	33.7%	21.6%	0.757	0.757
None	0.0%	0.0%	0.0%	0.0%	0.000	0.000

Table H1. Economic Scenario Penetrations
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#	Measure Name ID	Sector	Program	Segment	Market	Passes C-E Screen	Year											
							2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
1	ES LED Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
2	ES LED Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
3	ES LED Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4	ES LED Globe Lamp, Intl, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
5	ES LED Globe Lamp, Intl, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
6	ES LED Globe Lamp, Extl, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
7	ES LED PAR [Flood Lamp, Intl, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
8	ES LED PAR [Flood Lamp, Intl, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
9	ES LED PAR [Flood Lamp, Extl, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10	ES LED Downlight Fixture, Intl, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	N	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
11	ES LED Downlight Fixture, Intl, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	N	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12	ES LED Outdoor Fixture, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
13	ES Ceiling Fan w Lights, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
14	ES Ceiling Fan w Lights, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
15	ES Ceiling Fan, Res, E - Oth	Res	Residential Retrofit	Single Family	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
16	Ext Lighting Controls, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y	0.125	0.125	0.125	0.126	0.127	0.128	0.129	0.130	0.132	0.133		
17	LED Holiday Lights, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y	0.125	0.125	0.125	0.126	0.127	0.128	0.129	0.130	0.132	0.133		
18	LED Holiday Lights, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y	0.125	0.125	0.125	0.126	0.127	0.128	0.129	0.130	0.132	0.133		
19	LED Holiday Lights, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y	0.125	0.125	0.125	0.126	0.127	0.128	0.129	0.130	0.132	0.133		
20	LED Tube Replacement Lamps, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
21	LED Tube Replacement Lamps, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
22	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
23	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
24	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
25	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
26	ES Clothes Washer, Res, E - HWat [Elec DHW/Gas Dry, SF]	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
27	ES Clothes Washer, Res, E - HWat [Elec DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
28	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Elec Dry, SF]	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
29	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
30	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Gas Dry, SF]	Res	Residential New Construction	Single Family	NC	N	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
31	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	N	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
32	ES Clothes Washer, Res, G - HWat [Gas DHW/Gas Dry, SF]	Res	Residential New Construction	Single Family	NC	N	1.000	0.960	0.958	0.963	0.964	0.965	0.966	0.967	0.968	0.969		
33	ES Clothes Washer, Res, G - HWat [Gas DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	N	1.000	1.000	1.008	1.024	1.035	1.046	1.058	1.070	1.082	1.094		
34	HER, Res, E - ToIE	Res	Residential Retrofit	Single Family	RET	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
35	HER, Res, G - ToIG	Res	Residential Retrofit	Single Family	RET	Y	1.000	1.000	1.000	1.008	1.024	1.035	1.046	1.058	1.070	1.082	1.094	
36	ES Dehumidifier, Res, E - Appl	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
37	ES Dehumidifier, Res, E - Appl	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
38	ES Dishwasher, Res, E - Appl [Elec Water Heating]	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
39	ES Dishwasher, Res, E - Appl [Elec Water Heating]	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
40	ES Dishwasher, Res, E - HWat [Elec Water Heating]	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
41	ES Dishwasher, Res, E - HWat [Elec Water Heating]	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
42	ES Dishwasher, Res, E/G - Appl [Gas Water Heating]	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
43	ES Dishwasher, Res, E/G - Appl [Gas Water Heating]	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	1.000	1.000	1.008	1.017	1.026	1.035	1.044	1.054	1.066		
44	Tier 2 Power Strip, Res, E - Plug	Res	Residential Retrofit	Single Family	RET	Y	0.125	0.125	0.125	0.126	0.127	0.128	0.129	0.130	0.132	0.133		
45	Variable Speed Pool Pump, Res, E - Oth	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
46	Variable Speed Pool Pump, Res, E - Oth	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.075	0.062	0.052	0.044	0.048	0.052	0.055	0.058	0.061		
47	Variable Speed Pool Pump, Res, E - Oth	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	0.800	0.700	0.605	0.508	0.523	0.538	0.553	0.569	0.587		
48	ECM Blower Motor, Res, E/G - Oth	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
49	WH Jacket Insulation, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.200	0.200	0.200	0.202	0.203	0.205	0.207	0.209	0.211	0.213		
50	WH Drainpipe Heat Exchange, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
51	WH Setback, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.500	0.500	0.500	0.504	0.508	0.513	0.517	0.522	0.527	0.533		
52	Faucet Aerator, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
53	Low Flow Showerhead, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
54	Thermo Restrict Valve, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107		
55	HPWH, Res, E - HWat >55 gal Elec Space Heat	Res	Residential New Construction	Single Family	NC	N	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
56	HPWH, Res, E - HWat >55 gal Elec Space Heat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.072	0.058	0.047	0.038	0.031	0.025	0.021	0.017	0.014		
57	HPWH, Res, E - HWat >55 gal Gas Space Heat	Res	Residential Equipment Replacement	Single Family	REPL	N	1.000	0.800	0.700	0.605	0.508	0.414	0.317	0.219	0.119	0.018		
58	HPWH, Res, E/G - HWat >55 gal Gas Space Heat	Res	Residential New Construction	Single Family	NC	N	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945		
59	HPWH, Res, E/G - HWat >55 gal Gas Space Heat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.072	0.058	0.047	0.038	0.031	0.025	0.021	0.017	0.014		
60	HPWH, Res, E/G - HWat >55 gal Gas Space Heat	Res	Residential Equipment Replacement	Single Family	REPL													

130	Boiler Reset Controls, Res, G - Heat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.108	0.109
131	Duct Sealing, Res, E - Heat	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107
132	Duct Sealing, Res, E - Cool	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107
133	Duct Sealing, Res, E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.109
134	Air Sealing, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.108	0.109
135	Attic Insulation, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.108	0.109
136	Wall Insulation, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.108	0.109
137	Smart Thermostat, Res, G/E - Heat	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.958	0.963	0.964	0.965	0.966	0.967	0.968	0.969
138	Smart Thermostat, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.108	0.109
139	Smart Thermostat, Res, E - Heat	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.958	0.963	0.964	0.965	0.966	0.967	0.968	0.969
140	Smart Thermostat, Res, E - Heat	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.108	0.109
141	Smart Thermostat, Res, E - Cool	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.950	0.949	0.947	0.946	0.945	0.943	0.943	0.945
142	Smart Thermostat, Res, E - Cool	Res	Residential Retrofit	Single Family	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.107
143	Storage Gas Water Heater, Res, G - HWat	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.958	0.963	0.964	0.965	0.966	0.967	0.968	0.969
144	Storage Gas Water Heater, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.075	0.062	0.051	0.043	0.039	0.036	0.034	0.032	0.030
145	Storage Gas Water Heater, Res, G - HWat	Res	Residential Equipment Replacement	Single Family	REPL	Y	1.000	0.800	0.706	0.614	0.517	0.455	0.391	0.326	0.259	0.191
146	Tankless Gas Water Heater, Res, G - HWat	Res	Residential New Construction	Single Family	NC	Y	1.000	0.960	0.958	0.963	0.964	0.965	0.966	0.967	0.968	0.969
147	Tankless Gas Water Heater, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	N	0.100	0.082	0.071	0.062	0.054	0.047	0.041	0.036	0.031	0.027
148	Tankless Gas Water Heater, Res, G - HWat	Res	Residential Equipment Replacement	Single Family	REPL	N	1.000	0.800	0.706	0.614	0.517	0.419	0.317	0.214	0.108	0.000
149	Faucet Aerator, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	Y	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077
150	Low Flow Showerhead, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	Y	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077
151	Therm Restrict Valve, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	N	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077
152	WN Drainpipe Heat Exch, Gas, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	N	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077
153	Water Heater Setback, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	Y	0.350	0.350	0.353	0.358	0.362	0.366	0.370	0.374	0.379	0.383
154	Pipe Insulation, Gas DHW, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077
155	Solar DHW, Res, G - HWat	Res	Residential New Construction	Single Family	NC	N	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678
156	Solar DHW, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	N	0.070	0.057	0.049	0.042	0.036	0.031	0.027	0.023	0.020	0.017
157	Solar DHW, Res, G - HWat	Res	Residential Equipment Replacement	Single Family	REPL	N	0.700	0.560	0.494	0.430	0.362	0.293	0.222	0.150	0.076	0.000
158	ES LED, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	ES LED, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	ES LED, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161	ES LED, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162	ES LED, Res, E - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163	ES LED Globe Lamp, Int, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164	ES LED Globe Lamp, Int, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	ES LED Globe Lamp, MF Com, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166	ES LED Globe Lamp, MF Com, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167	ES LED Globe Lamp, Ext, Res, E - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	ES LED PAR Flood Lamp, Int, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169	ES LED PAR Flood Lamp, Int, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	ES LED PAR Flood, MF Com, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	ES LED PAR Flood, MF Com, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172	ES LED PAR Flood Lamp, Ext, Res, E - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173	ES LED Downlight Fixture, Int, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	N	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	ES LED Downlight Fixture, Int, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	N	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	ES LED Downlight Fixture, MF, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	N	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176	ES LED Downlight Fixture, MF, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	N	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	ES LED Outdoor Fixture, Int, Res, E - Intl	Res	Residential Retrofit	MultiFamily	RET	N	0.350	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178	ES Ceiling Fan w Lights, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
179	ES Ceiling Fan w Lights, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
180	ES Ceiling Fan, Res, E - Oth	Res	Residential Retrofit	MultiFamily	RET	N	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
181	Ext Lighting Controls, Res, E - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.088	0.088	0.087	0.088	0.089	0.090	0.091	0.091	0.092	0.093
182	LED Holiday Lights, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.088	0.088	0.087	0.088	0.089	0.090	0.091	0.091	0.092	0.093
183	LED Holiday Lights, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	Y	0.088	0.088	0.087	0.088	0.089	0.090	0.091	0.091	0.092	0.093
184	LED Holiday Lights, Res, E - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.088	0.088	0.087	0.088	0.089	0.090	0.091	0.091	0.092	0.093
185	LED Tube Replacement Lamps, Res, E/G - Intl	Res	Residential Retrofit	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
186	LED Tube Replacement Lamps, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
187	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
188	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
189	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
190	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
191	ES Clothes Washer, Res, E - HWat [Elec DHW/Gas Dry, SF]	Res	Residential New Construction	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
192	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
193	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Elec Dry, SF]	Res	Residential New Construction	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
194	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
195	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Gas Dry, SF]	Res	Residential New Construction	MultiFamily	NC	N	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
196	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
197	ES Clothes Washer, Res, G - HWat [Gas DHW/Gas Dry, SF]	Res	Residential New Construction	MultiFamily	NC	N	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678
198	ES Clothes Washer, Res, G - HWat [Gas DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	MultiFamily	REPL	N	0.700	0.700	0.706	0.716	0.724	0.732	0.741	0.749	0.757	0.766
199	ES Clothes Washer MF, Res, E - Appl [Elec DHW/Elec Dry, MF]	Res	Residential New Construction	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
200	ES Clothes Washer MF, Res, E - Appl [Elec DHW/Elec Dry, MF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
201	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Elec Dry, MF]	Res	Residential New Construction	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
202	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Elec Dry, MF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
203	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Gas Dry, MF]	Res	Residential New Construction	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
204	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Gas Dry, MF]	Res	Residential Equipment Replacement	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731		

265	ASHP_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
266	ASHP_Res, E - Cool	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
267	ASHP_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
268	ASHP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
269	ASHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
270	ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
271	ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
272	ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
273	ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
274	QI ASHP_Res, E - Cool	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
275	QI ASHP_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.058	0.051	0.045	0.040	0.036	0.032	0.036	0.040	0.044	0.044	0.044	0.044	
276	QI ASHP_Res, E - Cool	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.225	0.233	0.241	0.241	0.241	0.241	
277	QI ASHP_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
278	QI ASHP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.058	0.051	0.045	0.040	0.036	0.032	0.036	0.040	0.044	0.044	0.044	0.044	
279	QI ASHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.224	0.231	0.239	0.239	0.239	0.239	
280	QI ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
281	QI ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.224	0.231	0.239	0.239	0.239	0.239	
282	QI ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
283	QI ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.224	0.231	0.239	0.239	0.239	0.239	
284	DMSHP_Res, E - Cool	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
285	DMSHP_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.056	0.047	0.040	0.034	0.029	0.025	0.021	0.019	0.017	0.017	0.017	0.017	
286	DMSHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.146	0.081	0.015	0.015	0.015	0.015	
287	DMSHP_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
288	DMSHP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.056	0.047	0.040	0.034	0.029	0.025	0.021	0.019	0.017	0.017	0.017	0.017	
289	DMSHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.146	0.081	0.015	0.015	0.015	0.015	
290	GSHSP_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
291	GSHSP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
292	GSHSP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
293	Pipe Insulation_Res, E - HWat	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074	0.074	0.074	0.074	
294	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
295	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
296	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
297	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	N	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678	0.678	0.678	0.678	0.678
298	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.057	0.049	0.043	0.037	0.032	0.028	0.024	0.021	0.018	0.018	0.018	0.018	
299	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	N	0.700	0.560	0.494	0.430	0.362	0.293	0.222	0.150	0.096	0.000	0.000	0.000	0.000	
300	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
301	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
302	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
303	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678	0.678	0.678	0.678	0.678
304	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.057	0.049	0.043	0.037	0.032	0.028	0.024	0.021	0.018	0.018	0.018	0.018	
305	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.494	0.430	0.362	0.293	0.222	0.150	0.096	0.000	0.000	0.000	0.000	
306	Furnace Tune Up_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.350	0.350	0.353	0.358	0.362	0.366	0.370	0.374	0.379	0.383	0.383	0.383	0.383	0.383
307	Boiler Tune Up_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.350	0.350	0.353	0.358	0.362	0.366	0.370	0.374	0.379	0.383	0.383	0.383	0.383	0.383
308	Boiler Reset Controls_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077	0.077	0.077	0.077	0.077
309	Air Sealing, Gas Heating_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077	0.077	0.077	0.077	0.077
310	Pipe Insulation, Space Heat_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077	0.077	0.077	0.077	0.077
311	Attic Insulation, Gas Heating_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077	0.077	0.077	0.077	0.077
312	Wall Insulation, Gas Heating_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077	0.077	0.077	0.077	0.077
313	Smart Thermostat_Res, G/E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678	0.678	0.678	0.678	0.678
314	Smart Thermostat_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.070	0.071	0.072	0.072	0.073	0.074	0.075	0.076	0.077	0.077	0.077	0.077	0.077
315	Smart Thermostat_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
316	Smart Thermostat_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075	0.075	0.075	0.075	0.075
317	Smart Thermostat_Res, E - Cool	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661	0.660	0.660	0.661	0.661
318	Smart Thermostat_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075	0.075	0.075	0.075	0.075
319	Demand Control Recirc Pump_Res, G/E - HWat	Res	Residential Retrofit	Multifamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075	0.075	0.075	0.075	0.075
320	Storage Gas Water Heater_Res, G - HWat	Res	Residential New Construction	Multifamily	NC	Y	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678	0.678	0.678	0.678	0.678
321	Storage Gas Water Heater_Res, G - HWat	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.052	0.043	0.036	0.030	0.027	0.025	0.024	0.022	0.021	0.021	0.021	0.021	0.021
322	Storage Gas Water Heater_Res, G - HWat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.700	0.560	0.494	0.430	0.362	0.318	0.274	0.228	0.181	0.133	0.133	0.133	0.133	0.133
323	Tankless Gas Water Heater_Res, G - HWat	Res	Residential New Construction	Multifamily	NC	N	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678	0.678	0.678	0.678	0.678
324	Tankless Gas Water Heater_Res, G - HWat	Res	Residential Retrofit	Multifamily	RET	N	0.070	0.052	0.043	0.036	0.030	0.027	0.025	0.024	0.022	0.021	0.021	0.021	0.021	0.021
325	Tankless Gas Water Heater_Res, G - HWat	Res	Residential Equipment Replacement	Multifamily	REPL	N	1.000	0.800	0.700	0.614	0.517	0.419	0.311	0.211	0.100	0.000	0.000	0.000	0.000	0.000
326	Faucet Aerator, Gas DHW_Res, G - HWat [MF]	Res	Residential Retrofit	Multifamily	RET	Y	0.100	0.100	0.101	0.102	0.103	0.105	0.106	0.107	0.108	0.109	0.109	0.109	0.109	0.109
327	Low Flow Showerhead, Gas DHW_Res, G - HWat [MF]	Res	Residential Retrofit																	

[illegible]

535	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Gas Dry, MF]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
536	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Gas Dry, MF]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
537	ES Clothes Washer MF, Res, E/G - Appl [Gas DHW/Elec Dry, MF]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
538	ES Clothes Washer MF, Res, E/G - Appl [Gas DHW/Elec Dry, MF]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
539	ES Clothes Washer MF, Res, G - HWat [Gas DHW/Gas Dry, MF]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.671	0.674	0.675	0.675	0.676	0.677	0.678	0.678
540	ES Clothes Washer MF, Res, G - HWat [Gas DHW/Gas Dry, MF]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.706	0.716	0.724	0.732	0.741	0.749	0.757	0.766
541	ECM Circ Pump, Res, E - Oth [DHW]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
542	ECM Circ Pump, Res, E - Oth [DHW]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
543	ECM Circ Pump, Res, E - Oth [Heating Water]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
544	ECM Circ Pump, Res, E - Oth [Heating Water]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
545	ES Dehumidifier, Res, E - Appl	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
546	ES Dehumidifier, Res, E - Appl	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
547	ES Dishwasher, Res, E - Appl [Elec Water Heating]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
548	ES Dishwasher, Res, E - Appl [Elec Water Heating]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
549	ES Dishwasher, Res, E - HWat [Elec Water Heating]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
550	ES Dishwasher, Res, E - HWat [Elec Water Heating]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
551	ES Dishwasher, Res, E/G - Appl [Gas Water Heating]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
552	ES Dishwasher, Res, E/G - Appl [Gas Water Heating]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
553	Tier 2 Power Strip, Res, E - Plug	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.088	0.088	0.087	0.088	0.089	0.090	0.091	0.091	0.092	0.093
554	Variable Speed Pool Pump, Res, E - Oth	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
555	Variable Speed Pool Pump, Res, E - Oth	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.052	0.044	0.037	0.031	0.034	0.036	0.039	0.041	0.042
556	Variable Speed Pool Pump, Res, E - Oth	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.364	0.377	0.387	0.399	0.411
557	ECM Blower Motor, Res, E/G - Oth	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
558	WH Jacket Insulation, Res, E - HWat	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.140	0.140	0.140	0.141	0.142	0.144	0.145	0.146	0.148	0.149
559	WH Setback, Res, E - HWat	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.350	0.350	0.350	0.353	0.356	0.359	0.362	0.365	0.369	0.373
560	Faucet Aerator, Res, E - HWat	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
561	Low Flow Showerhead, Res, E - HWat	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
562	Thermo Restrict Valve, Res, E - HWat	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
563	HPWH, Res, E - HWat >55 gal Elec Space Heat	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
564	HPWH, Res, E - HWat >55 gal Elec Space Heat	Res	Residential Retrofit	U	MultiFamily	RET	N	0.070	0.050	0.040	0.033	0.026	0.022	0.018	0.015	0.012	0.010
565	HPWH, Res, E - HWat >55 gal Elec Space Heat	Res	Residential Equipment Replacement	U	MultiFamily	REPL	N	0.700	0.560	0.490	0.423	0.356	0.290	0.222	0.153	0.084	0.012
566	HPWH, Res, E/G - HWat >55 gal Gas Space Heat	Res	Residential New Construction	U	MultiFamily	NC	N	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
567	HPWH, Res, E/G - HWat >55 gal Gas Space Heat	Res	Residential Retrofit	U	MultiFamily	RET	N	0.070	0.050	0.040	0.033	0.026	0.022	0.018	0.015	0.012	0.010
568	HPWH, Res, E/G - HWat >55 gal Gas Space Heat	Res	Residential Equipment Replacement	U	MultiFamily	REPL	N	0.700	0.560	0.490	0.423	0.356	0.290	0.222	0.153	0.084	0.012
569	HPWH, Res, E - HWat <55 gal Elec Space Heat	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
570	HPWH, Res, E - HWat <55 gal Elec Space Heat	Res	Residential Retrofit	U	MultiFamily	RET	N	0.070	0.050	0.040	0.033	0.026	0.022	0.018	0.015	0.012	0.010
571	HPWH, Res, E - HWat <55 gal Elec Space Heat	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.290	0.222	0.153	0.084	0.012
572	HPWH, Res, E/G - HWat <55 gal Gas Space Heat	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
573	HPWH, Res, E/G - HWat <55 gal Gas Space Heat	Res	Residential Retrofit	U	MultiFamily	RET	N	0.070	0.050	0.040	0.033	0.026	0.022	0.018	0.015	0.012	0.010
574	HPWH, Res, E/G - HWat <55 gal Gas Space Heat	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.290	0.222	0.153	0.084	0.012
575	Attic Insulation, Res, E - Heat [Elec Heating]	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
576	Attic Insulation, Res, E - Cool [Elec Heating]	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
577	Wall Insulation, Res, E - Heat [Elec Heating]	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
578	Wall Insulation, Res, E - Cool [Elec Heating]	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
579	Air Sealing, Res, E - Heat [Elec Heating]	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
580	ES Fridge and Freezer, Res, E - Refr	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
581	ES Fridge and Freezer, Res, E - Refr	Res	Residential Retrofit	U	MultiFamily	RET	N	0.070	0.057	0.051	0.046	0.041	0.037	0.045	0.052	0.059	0.066
582	ES Fridge and Freezer, Res, E - Refr	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.146	0.081	0.015
583	Fridge Freezer Removal, Res, E - Refr	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.156	0.156	0.156	0.157	0.158	0.160	0.161	0.162	0.164	0.166
584	Room AC, Res, E - Cool	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.668
585	Room AC, Res, E - Cool	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.700	0.700	0.706	0.712	0.718	0.724	0.731	0.738	0.747
586	CAC Tune Up, Res, E - Cool	Res	Residential Retrofit	U	MultiFamily	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
587	CAC Recommisioning, Res, E - Cool	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.075
588	ASHP Tune Up, Res, E - Cool	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.350	0.350	0.350	0.353	0.356	0.359	0.362	0.365	0.369	0.373
589	ASHP Tune Up, Res, E - Heat	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.350	0.350	0.350	0.353	0.356	0.359	0.362	0.365	0.369	0.373
590	CAC, Res, E - Cool	Res	Residential New Construction	U	MultiFamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
591	CAC, Res, E - Cool	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
592	CAC, Res, E - Cool	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
593	QI CAC, Res, E - Cool	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
594	QI CAC, Res, E - Cool	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.146	0.081	0.015
595	QI CAC, Res, E - Cool	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.700	0.560	0.490	0.423	0.356	0.287	0.217	0.146	0.081	0.015
596	ASHP, Res, E - Cool	Res	Residential New Construction	U	MultiFamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
597	ASHP, Res, E - Cool	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
598	ASHP, Res, E - Cool	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
599	ASHP, Res, E - Heat	Res	Residential New Construction	U	MultiFamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
600	ASHP, Res, E - Heat	Res	Residential Retrofit	U	MultiFamily	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
601	ASHP, Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
602	ASHP, Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
603	ASHP, Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
604	ASHP, Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	U	MultiFamily	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
605	ASHP, Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	U	MultiFamily	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
606	QI ASHP, Res, E - Cool	Res	Residential New Construction	U	MultiFamily	NC	Y	0.700	0.672	0.665	0.664	0.663	0.662	0.661	0.660	0.660	0.661
607	QI ASHP, Res, E - Cool	Res															

670	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
671	Stair Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
672	Stair Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
673	Stair Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
674	Stair Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
675	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
676	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
677	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
678	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.036	0.038	0.040
679	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
680	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
681	Repl pin CFL wLED, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
682	Repl pin CFL wLED, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.800	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
683	Repl pin CFL wLED, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Small Office	REPL	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
684	Repl pin CFL wLED, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
685	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
686	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
687	LED Tube Repl, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
688	LED Tube Repl, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
689	LED Tube Repl, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.080	0.100	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
690	LED Tube Repl, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
691	LED Tube Repl, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
692	LED Tube Repl, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
693	Un LED Fixture, Com, E - Intl [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
694	Un LED Fixture, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
695	Un LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
696	Un LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
697	Un LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Small Office	REPL	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
698	Un LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
699	Un LED Fixture, Com, E/G - Intl	C&I	C&I New Construction	Small Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
700	Un LED Fixture, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
701	Un LED Fixture, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
702	Repl Scrs, Com, E - Intl [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
703	Repl Scrs, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
704	Repl Scrs, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
705	Repl Scrs, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
706	Repl Scrs, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
707	Repl Scrs, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
708	Repl Scrs, Com, E/G - Intl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
709	Repl Scrs, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
710	Repl Scrs, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
711	LED Hilo Bay, Com, E - Intl [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
712	LED Hilo Bay, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
713	LED Hilo Bay, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
714	LED Hilo Bay, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
715	LED Hilo Bay, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
716	LED Hilo Bay, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
717	LED Hilo Bay, Com, E/G - Intl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
718	LED Hilo Bay, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
719	LED Hilo Bay, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
720	Ext Sign ReflIt, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
721	Ext Sign ReflIt, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Small Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
722	Ext Sign ReflIt, Com, E - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
723	Int Ltg Ctrls, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
724	Int Ltg Ctrls, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Small Office	REPL	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
725	Int Ltg Ctrls, Com, E/G - Intl	C&I	C&I Retrofit	Small Office	REPL	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
726	Int Ltg Disp, Com, E - Extl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.996	0.996	0.995	0.995	0.994	0.994	0.994	0.994	0.994
727	Ext Ltg Ctrls, Com, E - Extl	C&I	C&I New Construction	Small Office	NC	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
728	Street Ltg, Com, E - Extl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
729	Street Ltg, Com, E - Extl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050
730	Street Ltg, Com, E - Extl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248
731	Ext Area Ltg, Com, E - Extl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
732	Ext Area Ltg, Com, E - Extl	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.082	0.073	0.065	0.058	0.051	0.046	0.052	0.058	0.064
733	Ext Area Ltg, Com, E - Extl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.800	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
734	Minisplit Ductless HP, Com, E - Cool	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
735	Minisplit Ductless HP, Com, E - Cool	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.044
736	Minisplit Ductless HP, Com, E - Heat	C&I	C&I Retrofit	Small Office	REPL	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
737	Minisplit Ductless HP, Com, E - Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.044
738	PTHP, Com, E - Cool	C&I	C&I New Construction	Small Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
739	PTHP, Com, E - Cool	C&I	C&I Retrofit	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
740	PTHP, Com, E - Cool	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
741	PTHP, Com, E - Heat	C&I	C&I New Construction	Small Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
742	PTHP, Com, E - Heat	C&I	C&I Retrofit	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
743	PTHP, Com, E - Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
744	Unitary HP, Com, E - Cool	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.9							

805	Clothes Washer Gas WH, Com, E- Appl (unit w/ gas dry- Washer)	C&I	C&I New Construction	Small Office	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.952	0.961	0.970
806	Clothes Washer Gas WH, Com, E- Appl (unit w/ gas dry- Washer)	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.000	1.009	1.016	1.025	1.034	1.043	1.053	1.063
807	Clothes Washer Gas WH, Com, G- 0th (unit w/ gas dry- Dryer)	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.952	0.959	0.966
808	Clothes Washer Gas WH, Com, G- 0th (unit w/ gas dry- Dryer)	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
809	Clothes Washer Gas WH, Com, G- HWat (unit w/ gas dry- Water Heater)	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.952	0.959	0.966
810	Clothes Washer Gas WH, Com, G- HWat (unit w/ gas dry- Water Heater)	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
811	Ozone Laundry, Com, E- HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
812	Ozone Laundry, Com, E- HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105	0.106
813	Dishwasher, Com, E- Appl (Building w/ elec WH)	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
814	Dishwasher, Com, E- Appl (Building w/ elec WH)	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
815	Dishwasher, Com, E- HWat (Building w/ elec WH)	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
816	Dishwasher, Com, E- HWat (Building w/ elec WH)	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
817	Dishwasher, Com, E- Appl (Building w/ elec WH)	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
818	Dishwasher, Com, E- Appl (Building w/ gas WH)	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
819	Dishwasher, Com, G- HWat (Building w/ gas WH)	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.950	0.957
820	Dishwasher, Com, G- HWat (Building w/ gas WH)	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
821	Com Faucet Aerator, Com, E- HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
822	Com Faucet Aerator, Com, G- HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
823	Pre Rinse Sprayers, Com, G- HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
824	Heat Pump Water Heater, Com, E- HWat	C&I	C&I New Construction	Small Office	NC	Y	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864	0.864
825	Heat Pump Water Heater, Com, E- HWat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.990	0.995	0.992	0.994	0.997	0.999	1.001	1.003	1.005	1.007
826	Heat Pump Water Heater, Com, E- HWat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.900	0.920	0.934	0.945	0.957	0.972	0.985	0.997	1.008	1.016
827	Gas Storage Water Heater, Com, G- HWat	C&I	C&I New Construction	Small Office	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
828	Gas Storage Water Heater, Com, G- HWat	C&I	C&I Retrofit	Small Office	RET	N	1.000	0.880	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882
829	Gas Storage Water Heater, Com, G- HWat	C&I	C&I Equipment Replacement	Small Office	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.215	0.139	0.064
830	Gas Tankless Water Heater, Com, G- HWat	C&I	C&I New Construction	Small Office	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
831	Gas Tankless Water Heater, Com, G- HWat	C&I	C&I Retrofit	Small Office	RET	N	1.000	0.880	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882
832	Gas Tankless Water Heater, Com, G- HWat	C&I	C&I Equipment Replacement	Small Office	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.030
833	Clothes Dryer, Com, E- Appl	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
834	Clothes Dryer, Com, E- Appl	C&I	C&I Retrofit	Small Office	RET	Y	1.000	0.708	0.066	0.055	0.046	0.039	0.033	0.030	0.028	0.025
835	Clothes Dryer, Com, E- Appl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.140	0.060
836	Clothes Dryer, Com, G- 0th	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
837	Clothes Dryer, Com, G- 0th	C&I	C&I Retrofit	Small Office	RET	N	1.000	0.708	0.066	0.055	0.047	0.039	0.033	0.030	0.028	0.025
838	Clothes Dryer, Com, G- 0th	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.230	0.148	0.065
839	ES Refrigerator and Freezer, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
840	ES Refrigerator and Freezer, Com, E- Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
841	Anti Sweat Heat Control, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
842	Anti Sweat Heat Control, Com, E- Refr	C&I	C&I Retrofit	Small Office	RET	N	1.000	1.000	1.001	1.001	1.002	1.002	1.003	1.004	1.005	1.006
843	ECM Comp Cond Fan Motor, Com, E- Refr	C&I	C&I New Construction	Small Office	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
844	ECM Comp Cond Fan Motor, Com, E- Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.840	0.100	0.084	0.077	0.070	0.063	0.058	0.053	0.065	0.076
845	ECM Comp Cond Fan Motor, Com, E- Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.237	0.148	0.054
846	Evap Fan Motor Replacement, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
847	Evap Fan Motor Replacement, Com, E- Refr	C&I	C&I Retrofit	Small Office	RET	Y	1.000	0.081	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050
848	Evap Fan Motor Replacement, Com, E- Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248
849	Evap Fan Speed Controls, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
850	Evap Fan Speed Controls, Com, E- Refr	C&I	C&I Retrofit	Small Office	RET	N	1.000	1.000	1.001	1.001	1.002	1.002	1.003	1.004	1.005	1.006
851	LowHeat NoHeat Doors, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
852	LowHeat NoHeat Doors, Com, E- Refr	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
853	Refrigerated Vending Machine, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
854	Refrigerated Vending Machine, Com, E- Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
855	Walk in Refrigeration, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.660	0.659	0.659	0.659
856	Walk in Refrigeration, Com, E- Refr	C&I	C&I Retrofit	Small Office	RET	N	1.000	0.143	0.144	0.145	0.146	0.146	0.146	0.146	0.146	0.146
857	ES Ice Machine, Com, E- Refr	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
858	ES Ice Machine, Com, E- Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
859	Walk in Cooler Retrofit, Com, E- Refr	C&I	C&I Retrofit	Small Office	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074
860	Motors, Com, E- 0th	C&I	C&I New Construction	Small Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
861	Motors, Com, E- 0th	C&I	C&I Retrofit	Small Office	RET	Y	1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
862	Motors, Com, E- 0th	C&I	C&I Equipment Replacement	Small Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.237	0.148	0.054
863	ECM Circulators, Com, E- 0th	C&I	C&I Retrofit	Small Office	RET	Y	1.000	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105	0.106
864	VFDs on HVAC Pumps, Com, E- 0th	C&I	C&I Retrofit	Small Office	RET	Y	1.000	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105	0.106
865	EMS, Com, E- TotE (Building w/ Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
866	EMS, Com, E- TotE (Building w/ Elec Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.068	0.068	0.068	0.069
867	EMS, Com, E- TotE (Building w/ Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
868	EMS, Com, E- TotE (Building w/ Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.068	0.068	0.068	0.069
869	EMS, Com, G- TotG (Building w/ Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.624	0.624	0.624	0.619	0.617	0.616	0.614	0.612	0.611	0.609
870	EMS, Com, G- TotG (Building w/ Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
871	Deep Energy Retrofit, Com, E- TotE (Building w/ Elec Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
872	Deep Energy Retrofit, Com, E- TotE (Building w/ Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
873	Deep Energy Retrofit, Com, G- TotG (Building w/ Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
874	Integrated Building Design, Com, E- TotE (Building w/ Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
875	Integrated Building Design, Com, E- TotE (Building w/ Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.100	0.096	0.095	0.095	0.095	0.095	0.094	0.094	0.094	0.094
876	Integrated Building Design, Com, G- TotG (Building w/ Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.100	0.096	0.095	0.095	0.095	0.095	0.094	0.094	0.094	0.094
877	Commissioning, Com, E- TotE (Building w/ Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
878	Commissioning, Com, E- TotE (Building w/ Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
879	Commissioning, Com, G															

940	Unit Heater Com, G- Heat	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
941	Unit Heater Com, G- Heat	C&I	C&I Retrofit	Small Office	RET	Y		1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.035	0.030	0.026
942	Unit Heater Com, G- Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y		1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.152	0.095
943	Furnace Com, G- Heat	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
944	Furnace Com, G- Heat	C&I	C&I Retrofit	Small Office	RET	Y		1.000	0.086	0.079	0.072	0.066	0.061	0.056	0.051	0.047	0.043
945	Furnace Com, G- Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y		1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
946	Boilers Com, G- Heat	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
947	Boilers Com, G- Heat	C&I	C&I Retrofit	Small Office	RET	N		1.000	0.084	0.075	0.067	0.060	0.054	0.048	0.043	0.039	0.035
948	Boilers Com, G- Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y		1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
949	Boiler Modifications Com, G- Heat	C&I	C&I Retrofit	Small Office	RET	Y		0.108	0.108	0.109	0.110	0.111	0.111	0.112	0.113	0.114	0.115
950	Boiler Blowdown Controls Com, G- Heat	C&I	C&I Retrofit	Small Office	RET	N		0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
951	Smart TStat Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
952	Smart TStat Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Small Office	RET	N		1.000	0.100	0.100	0.101	0.102	0.103	0.104	0.105	0.106	0.107
953	Smart TStat Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
954	Smart TStat Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Small Office	RET	Y		0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
955	Smart TStat Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
956	Smart TStat Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y		0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
957	Smart TStat Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
958	Smart TStat Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y		0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
959	Programmable TStat Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
960	Programmable TStat Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
961	Programmable TStat Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
962	Programmable TStat Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
963	Programmable TStat Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
964	Programmable TStat Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
965	Int Lig Dsgn Com, E- Intl [No Heat]	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094	0.094
966	Int Lig Dsgn Com, E- Intl [Electric Heat]	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
967	Int Lig Dsgn Com, E/G- Intl	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
968	Int Delamping Com, E- Intl [No Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
969	Int Delamping Com, E- Intl [Electric Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
970	Int Delamping Com, E/G- Intl	C&I	C&I Retrofit	Large Office	RET	Y		0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
971	Stair Occ Sensor Com, E- Intl [No Heat]	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
972	Stair Occ Sensor Com, E- Intl [No Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
973	Stair Occ Sensor Com, E- Intl [Electric Heat]	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
974	Stair Occ Sensor Com, E- Intl [Electric Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
975	Stair Occ Sensor Com, E/G- Intl	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
976	Stair Occ Sensor Com, E/G- Intl	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
977	Refrig Case LED Com, E- Intl	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
978	Refrig Case LED Com, E- Intl	C&I	C&I Retrofit	Large Office	RET	Y		1.000	0.081	0.070	0.062	0.054	0.047	0.041	0.036	0.030	0.024
979	Refrig Case LED Com, E/G- Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
980	Refriger Case Ctrlrs Com, E- Intl	C&I	C&I Retrofit	Large Office	RET	Y		0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
981	Repl pin CFL wLED Com, E- Intl [No Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.034	0.026	0.018
982	Repl pin CFL wLED Com, E- Intl [No Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
983	Repl pin CFL wLED Com, E- Intl [Electric Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.034	0.026	0.018
984	Repl pin CFL wLED Com, E- Intl [Electric Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
985	Repl pin CFL wLED Com, E/G- Intl	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.034	0.026	0.018
986	Repl pin CFL wLED Com, E/G- Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
987	LED Tube Repl Com, E- Intl [No Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
988	LED Tube Repl Com, E- Intl [No Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
989	LED Tube Repl Com, E- Intl [Electric Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
990	LED Tube Repl Com, E- Intl [Electric Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
991	LED Tube Repl Com, E/G- Intl	C&I	C&I Retrofit	Large Office	RET	Y		0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
992	LED Tube Repl Com, E/G- Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
993	Lin LED Fixture Com, E- Intl [No Heat]	C&I	C&I New Construction	Large Office	NC	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
994	Lin LED Fixture Com, E- Intl [No Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
995	Lin LED Fixture Com, E- Intl [No Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
996	Lin LED Fixture Com, E- Intl [Electric Heat]	C&I	C&I New Construction	Large Office	NC	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
997	Lin LED Fixture Com, E- Intl [Electric Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
998	Lin LED Fixture Com, E- Intl [Electric Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
999	Lin LED Fixture Com, E/G- Intl	C&I	C&I New Construction	Large Office	NC	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1000	Lin LED Fixture Com, E/G- Intl	C&I	C&I Retrofit	Large Office	RET	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1001	Lin LED Fixture Com, E/G- Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1002	Repl Scre Com, E- Intl [No Heat]	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.950	0.940	0.930	0.920	0.910	0.900	0.890	0.880
1003	Repl Scre Com, E- Intl [No Heat]	C&I	C&I Retrofit	Large Office	RET	N		1.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
1004	Repl Scre Com, E- Intl [No Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.978	0.970	0.960	0.950	0.940	0.930	0.920	0.910	0.900
1005	Repl Scre Com, E- Intl [Electric Heat]	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.950	0.940	0.930	0.920	0.910	0.900	0.890	0.880
1006	Repl Scre Com, E- Intl [Electric Heat]	C&I	C&I Retrofit	Large Office	RET	Y		0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
1007	Repl Scre Com, E- Intl [Electric Heat]	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.978	0.970	0.960	0.950	0.940	0.930	0.920	0.910	0.900
1008	Repl Scre Com, E/G- Intl	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.950	0.940	0.930	0.920	0.910	0.900	0.890	0.880
1009	Repl Scre Com, E/G- Intl	C&I	C&I Retrofit	Large Office	RET	N		1.000	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
1010	Repl Scre Com, E/G- Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y		1.000	0.978	0.970	0.960	0.950	0.940	0.930	0.920	0.910	0.900
1011	LED Hilo Bay Com, E- Intl [No Heat]	C&I	C&I New Construction	Large Office	NC	Y		1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1012	LED Hilo Bay Com, E- Intl [No Heat]	C&I	C&I Retrofit	Large Office	RET	Y		1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.034	0.026	0.018
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1075	AC Tuneup, Com, E - Heat (ASHP)	C&I	C&I Retrofit	Large Office	REPL	Y	1.000	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
1076	AC Tuneup, Com, E - Cool (Unitary AC)	C&I	C&I Retrofit	Large Office	REPL	Y	1.000	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
1077	Unitary Equipment Economizer, Com, E - Cool	C&I	C&I Retrofit	Large Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
1078	PTAC, Com, E - Cool	C&I	C&I New Construction	Large Office	REPL	Y	0.960	0.960	0.961	0.961	0.962	0.963	0.964	0.965	0.966	0.967	0.968
1079	PTAC, Com, E - Cool	C&I	C&I Retrofit	Large Office	REPL	Y	0.100	0.080	0.089	0.059	0.051	0.044	0.038	0.038	0.038	0.038	0.038
1080	PTAC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156	0.106
1081	Eff Unitary AC, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1082	Eff Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Large Office	REPL	N	0.100	0.081	0.071	0.061	0.053	0.047	0.041	0.043	0.044	0.044	0.048
1083	Eff Unitary AC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.285	0.260	0.234	0.204
1084	Minsplit Ductless AC, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1085	Minsplit Ductless AC, Com, E - Cool	C&I	C&I Retrofit	Large Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1086	Minsplit Ductless AC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1087	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1088	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1089	Chiller Tuneup, Com, E - Cool	C&I	C&I Retrofit	Large Office	REPL	N	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215
1090	Chiller Systems, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1091	Chiller Systems, Com, E - Cool	C&I	C&I Retrofit	Large Office	REPL	N	0.084	0.084	0.074	0.065	0.058	0.051	0.046	0.040	0.036	0.032	0.029
1092	Chiller Systems, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.289	0.265	0.240	0.215
1093	Com Room AC, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1094	Com Room AC, Com, E - Cool	C&I	C&I Retrofit	Large Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1095	Com Room AC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1096	Com ES Dehumidifier, Com, E - Appl	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1097	Com ES Dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1098	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1099	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1100	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1101	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1102	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1103	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1104	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1105	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1106	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1107	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1108	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.939	0.936	0.933
1109	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.005	1.007	1.019	1.027	1.035	1.042	1.050	1.058	1.066
1110	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1111	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1112	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.939	0.936	0.933
1113	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
1114	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.939	0.936	0.933
1115	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
1116	Ozone Laundry, Com, E - HWat	C&I	C&I Retrofit	Large Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
1117	Ozone Laundry, Com, G - HWat	C&I	C&I Retrofit	Large Office	REPL	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.106
1118	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1119	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1120	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1121	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1122	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1123	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
1124	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
1125	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
1126	Com Faucet Aerator, Com, E - HWat	C&I	C&I Retrofit	Large Office	REPL	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
1127	Com Faucet Aerator, Com, G - HWat	C&I	C&I Retrofit	Large Office	REPL	Y	0.100	0.100	0.100	0.101	0.101	0.102	0.103	0.104	0.105	0.106	0.106
1128	Pre Rinse Sprayers, Com, E - HWat	C&I	C&I Retrofit	Large Office	REPL	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215
1129	Pre Rinse Sprayers, Com, E - HWat	C&I	C&I Retrofit	Large Office	REPL	Y	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.209	0.211	0.213	0.215
1130	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Large Office	NC	Y	0.900	0.864	0.861	0.855	0.852	0.850	0.849	0.848	0.848	0.847	0.847
1131	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Large Office	REPL	Y	0.900	0.065	0.052	0.042	0.034	0.028	0.023	0.019	0.015	0.013	0.011
1132	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.900	0.720	0.634	0.545	0.457	0.372	0.285	0.197	0.108	0.016	0.016
1133	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Large Office	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
1134	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Large Office	REPL	N	0.082	0.082	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.025	0.020
1135	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Large Office	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.211	0.112	0.013	0.013
1136	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Large Office	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
1137	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Large Office	REPL	N	0.100	0.082	0.071	0.062	0.054	0.047	0.041	0.036	0.031	0.027	0.023
1138	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Large Office	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000	0.000
1139	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
1140	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Large Office	REPL	Y	0.100	0.078	0.066	0.055	0.046	0.039	0.033	0.030	0.028	0.025	0.022
1141	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.800	0.800	0.805	0.808	0.810	0.812	0.814	0.816	0.818	0.820	0.822
1142	Clothes Dryer, Com, G - Oth	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
1143	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Large Office	REPL	N	0.100	0.078	0.065	0.055	0.047	0.039	0.033	0.			

1210	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1211	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.100	0.101	0.101	0.102	0.103	0.104	0.105	0.106
1212	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1213	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1214	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1215	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
1216	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1217	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1218	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
1219	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1220	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1221	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
1222	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1223	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.080	0.069	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1224	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.271	0.231	0.191
1225	VFD on HVAC System, Com, E - Vent	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1226	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1227	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1228	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.078	0.065	0.055	0.046	0.039	0.033	0.028	0.023	0.020
1229	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.231	0.191
1230	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1231	Window Film, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1232	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1233	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1234	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1235	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1236	Windows, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1237	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1238	Steam Trap Maintenance, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1239	Infrared Heater, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1240	Infrared Heater, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.088	0.082	0.077	0.073	0.068	0.064	0.060	0.057	0.050
1241	Infrared Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.268	0.293	0.379
1242	Forced Air Heating Maintenance, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
1243	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	0.800	0.768	0.764	0.762	0.760	0.758	0.756	0.754	0.752	0.750
1244	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.080	0.082	0.082	0.084	0.087	0.091	0.096	0.102	0.108	0.115
1245	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.800	0.646	0.548	0.486	0.408	0.329	0.248	0.177	0.084	0.000
1246	Unit Heater, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1247	Unit Heater, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.035	0.035	0.036
1248	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.268	0.152	0.095
1249	Furnace, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1250	Furnace, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.086	0.079	0.072	0.066	0.061	0.056	0.051	0.047	0.043
1251	Furnace, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.800	0.703	0.607	0.510	0.411	0.310	0.268	0.105	0.000	0.000
1252	Boilers, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1253	Boilers, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	N	0.100	0.084	0.075	0.067	0.060	0.054	0.048	0.043	0.039	0.035
1254	Boilers, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.268	0.105	0.000
1255	Boiler Modifications, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.108	0.108	0.109	0.110	0.111	0.111	0.112	0.113	0.114	0.115
1256	Boiler Blowdown Controls, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	N	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
1257	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1258	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1259	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1260	Smart TStat, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1261	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1262	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1263	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1264	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1265	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1266	Programmable TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1267	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1268	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1269	Programmable TStat, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1270	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1271	Int Ltg Dsgn, Com, E - Intl [No Heat]	C&I	C&I New Construction	Education	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1272	Int Ltg Dsgn, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Education	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1273	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Education	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1274	Int Delamping, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Education	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
1275	Int Delamping, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Education	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
1276	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Education	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
1277	Star Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1278	Star Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1279	Star Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1280	Star Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1281	Star Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1282	Star Occ Sensor, Com, E - Intl	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1283	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944			

1342	PTHP, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1343	PTHP, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1347	PTHP, Com, E - Heat	C&I	C&I New Construction	Education	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1348	PTHP, Com, E - Heat	C&I	C&I Retrofit	Education	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1349	PTHP, Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1350	Unitary HP, Com, E - Cool	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1351	Unitary HP, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062	0.067	0.072	0.077
1352	Unitary HP, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	N	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
1353	Unitary HP, Com, E - Heat	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1354	Unitary HP, Com, E - Heat	C&I	C&I Retrofit	Education	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062	0.067	0.072	0.077
1355	Unitary HP, Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.130	0.330	0.340	0.340	0.340
1356	Com GSPH, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.030	0.030	0.026	0.026
1357	Com GSPH, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.130	0.330	0.340	0.340	0.340
1358	Com GSPH, Com, E - Heat	C&I	C&I Retrofit	Education	RET	N	0.083	0.073	0.062	0.053	0.046	0.040	0.035	0.030	0.030	0.030	0.026	0.026	0.026
1359	Com GSPH, Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.130	0.330	0.340	0.340	0.340
1360	Cool Roof, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1361	Cool Roof, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1362	Cool Roof, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1363	Cool Roof, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1364	Cool Roof, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1365	Cool Roof, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1366	Cool Roof, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934	0.931	0.928
1367	Cool Roof, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1368	Optimized Chiller Sys, Com, E - Cool	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1369	Optimized Unitary AC Sys, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1370	Optimized Unitary AC Sys, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1371	Optimized Unitary AC Sys, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1372	Optimized Unitary AC Sys, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934	0.931	0.928
1373	Controls for Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1374	DCV, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1375	DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1376	DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1377	DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1378	DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Education	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1379	DCV, Com, G - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106	0.106	0.106
1380	AC Tuneup, Com, E - Cool (ASHP)	C&I	C&I Retrofit	Education	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213	0.213	0.213
1381	AC Tuneup, Com, E - Heat (ASHP)	C&I	C&I Retrofit	Education	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213	0.213	0.213
1382	AC Tuneup, Com, E - Cool (Unitary AC)	C&I	C&I Retrofit	Education	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213	0.213	0.213
1383	AC Tuneup, Com, E - Heat (Unitary AC)	C&I	C&I Retrofit	Education	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213	0.213	0.213
1384	PTAC, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1385	PTAC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.038	0.038	0.038	0.038	0.038	0.038
1386	PTAC, Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156	0.106	0.056	0.006
1387	EFF Unitary AC, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1388	EFF Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.100	0.081	0.071	0.061	0.053	0.047	0.041	0.043	0.046	0.048	0.050	0.052	0.054
1389	EFF Unitary AC, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800
1390	Minisplit Ductless AC, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1391	Minisplit Ductless AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1392	Minisplit Ductless AC, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1393	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1394	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
1395	Chiller Tuneup, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213	0.213	0.213
1396	Chiller Systems, Com, E - Cool	C&I	C&I New Construction	Education	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1397	Chiller Systems, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.100	0.084	0.074	0.065	0.058	0.051	0.046	0.040	0.036	0.032	0.028	0.024	0.020
1398	Chiller Systems, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156	0.106	0.056	0.006
1399	Com Room AC, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1400	Com Room AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1401	Com ES dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Education	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1402	Com ES dehumidifier, Com, E - Appl	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1403	Com ES dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083	1.093
1404	Clothes Washer Elec WH, Com, E - Appl (unit w/ elec dry - Washer)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1405	Clothes Washer Elec WH, Com, E - Appl (unit w/ elec dry - Washer)	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083	1.093
1406	Clothes Washer Elec WH, Com, E - Appl (unit w/ elec dry - Dryer)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
1407	Clothes Washer Elec WH, Com, E - Appl (unit w/ elec dry - Dryer)	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083	1.093
1408	Clothes Washer Elec WH, Com, E - HWat. (unit w/ elec dry - Water Heater)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960</											

1480	Fryers, Com, E- Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1481	Fryers, Com, G- Cook	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1482	Fryers, Com, G- Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
1483	Steamers, Com, E- Cook	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1484	Steamers, Com, E- Cook	C&I	C&I Equipment Replacement	Education	REPL	N	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1485	Steamers, Com, G- Cook	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1486	Steamers, Com, G- Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
1487	Griddles, Com, E- Cook	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1488	Griddles, Com, E- Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1489	Griddles, Com, G- Cook	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1490	Griddles, Com, G- Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
1491	Hot Food Holding Cabinet, Com, E- Cook	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1492	Hot Food Holding Cabinet, Com, E- Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1493	Motors, Com, E- Oth	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1494	Motors, Com, E- Oth	C&I	C&I Retrofit	Education	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
1495	Motors, Com, E- Oth	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
1496	ECM Circulators, Com, E- Oth	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1497	VFDs on HVAC Pumps, Com, E- Oth	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1498	EMS, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
1499	EMS, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
1500	EMS, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
1501	EMS, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
1502	EMS, Com, G- TotE (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.624	0.624	0.621	0.619	0.617	0.616	0.614	0.612	0.611	0.609
1503	EMS, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
1504	Deep Energy Retrofit, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
1505	Deep Energy Retrofit, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
1506	Integrated Building Design, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1507	Integrated Building Design, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1508	Commissioning, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1509	Commissioning, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1510	RCx, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
1511	RCx, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
1512	RCx, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.063	0.063	0.063	0.063	0.064	0.064	0.065	0.065	0.066	0.066
1513	Data Center, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1514	Data Center, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1515	Data Center, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1516	Data Center, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1517	Data Center, Com, G- TotE (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1518	Data Center, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
1519	Pneumatic to DDC, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1520	Pneumatic to DDC, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1521	Pneumatic to DDC, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1522	Power Strip, Com, E- Plug [Tier 1]	C&I	C&I New Construction	Education	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1523	Power Strip, Com, E- Plug [Tier 1]	C&I	C&I Retrofit	Education	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1524	Power Strip, Com, E- Plug [Tier 1]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1525	Power Strip, Com, E- Plug [Tier 2]	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1526	Power Strip, Com, E- Plug [Tier 2]	C&I	C&I Retrofit	Education	RET	Y	0.125	0.083	0.063	0.048	0.039	0.032	0.027	0.023	0.084	0.132
1527	Power Strip, Com, E- Plug [Tier 2]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.100	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1528	Computer Power Management, Com, E- Plug	C&I	C&I Retrofit	Education	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
1529	Vending Machine Controls, Com, E- Plug (Non-Refrigerated)	C&I	C&I Retrofit	Education	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
1530	Vending Machine Controls, Com, E- Plug (Refrigerated)	C&I	C&I Retrofit	Education	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
1531	Duct Sealing Regulated, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1532	Duct Sealing Regulated, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1533	Duct Sealing Regulated, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1534	Duct Sealing Regulated, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1535	Duct Sealing Regulated, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
1536	Duct Sealing Regulated, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1537	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1538	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1539	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	N	0.800	0.800	0.805	0.808	0.810	0.810	0.810	0.811	0.812	0.814
1540	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1541	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1542	Kitchen DCV, Com, E- Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
1543	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1544	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1545	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
1546	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1547	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.100	0.080	0.069	0.060	0.052	0.045	0.039	0.040	0.041	0.042
1548	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.271	0.231	0.191
1549	VFD on HVAC System, Com, E- Vent	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1550	ECM Furnace Motors, Com, E- Vent	C&I	C&I Retrofit	Education	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1551	Motors and Fans, Com, E- Vent	C&I	C&I New Construction	Education	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1552	Motors and Fans, Com, E- Vent	C&I	C&I Retrofit	Education	RET	N	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
1553	Motors and Fans, Com, E- Vent	C&I	C&I Equipment Replacement	Education	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.211	0.110	0.007

1615	LED Tube Repl. Com, E- Intl. [No Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
1616	LED Tube Repl. Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
1617	LED Tube Repl. Com, E- Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
1618	LED Tube Repl. Com, E/G- Intl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040
1619	LED Tube Repl. Com, E/G- Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
1620	LED Fixture, Com, E- Intl. [No Heat]	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1621	LED Fixture, Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1622	LED Fixture, Com, E- Intl. [No Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1623	LED Fixture, Com, E- Intl. [Electric Heat]	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1624	LED Fixture, Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1625	LED Fixture, Com, E- Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1626	LED Fixture, Com, E/G- Intl.	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1627	LED Fixture, Com, E/G- Intl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1628	LED Fixture, Com, E/G- Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1629	Repl. Scre. Com, E- Intl. [No Heat]	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1630	Repl. Scre. Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1631	Repl. Scre. Com, E- Intl. [No Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1632	Repl. Scre. Com, E- Intl. [Electric Heat]	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1633	Repl. Scre. Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1634	Repl. Scre. Com, E- Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1635	Repl. Scre. Com, E/G- Intl.	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1636	Repl. Scre. Com, E/G- Intl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1637	Repl. Scre. Com, E/G- Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1638	LED Hilo Bay, Com, E- Intl. [No Heat]	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1639	LED Hilo Bay, Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
1640	LED Hilo Bay, Com, E- Intl. [No Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
1641	LED Hilo Bay, Com, E- Intl. [Electric Heat]	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1642	LED Hilo Bay, Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
1643	LED Hilo Bay, Com, E- Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
1644	LED Hilo Bay, Com, E/G- Intl.	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1645	LED Hilo Bay, Com, E/G- Intl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
1646	LED Hilo Bay, Com, E/G- Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
1647	Exit Sign Refl. Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1648	Exit Sign Refl. Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.100	0.101	0.101	0.101	0.102	0.102	0.103	0.104	0.105
1649	Exit Sign Refl. Com, E/G- Intl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105
1650	Int Lig. Ctrls. Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132
1651	Int Lig. Ctrls. Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132
1652	Ext Lig. Disp. Com, E- Extl.	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132
1653	Ext Lig. Disp. Com, E- Extl.	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132
1654	Ext Lig. Ctrls. Com, E- Extl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132
1655	Street Lig. Com, E- Extl.	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1656	Street Lig. Com, E- Extl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
1657	Street Lig. Com, E- Extl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248
1658	Area Lig. Com, E- Extl.	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1659	Ext Area Lig. Com, E- Extl.	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
1660	Ext Area Lig. Com, E- Extl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.324	0.339	0.354
1661	Minisplit Ductless HP, Com, E- Cool	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
1662	Minisplit Ductless HP, Com, E- Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.004
1663	Minisplit Ductless HP, Com, E- Heat	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
1664	Minisplit Ductless HP, Com, E- Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.004
1665	PTHP, Com, E- Cool	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1666	PTHP, Com, E- Cool	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1667	PTHP, Com, E- Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1668	PTHP, Com, E- Heat	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1669	PTHP, Com, E- Heat	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1670	PTHP, Com, E- Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1671	Unitary HP, Com, E- Cool	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1672	Unitary HP, Com, E- Cool	C&I	C&I Retrofit	Grocery	RET	N	1.000	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062
1673	Unitary HP, Com, E- Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340
1674	Unitary HP, Com, E- Heat	C&I	C&I New Construction	Grocery	REPL	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1675	Unitary HP, Com, E- Heat	C&I	C&I Retrofit	Grocery	RET	N	1.000	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062
1676	Unitary HP, Com, E- Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340
1677	Com GSPH, Com, E- Cool	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026
1678	Com GSPH, Com, E- Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.004
1679	Com GSPH, Com, E- Heat	C&I	C&I Retrofit	Grocery	RET	Y	1.000	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026
1680	Com GSPH, Com, E- Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000
1681	Cool Roof, Com, E- Cool [Building w Elec Heat]	C&I	C&I New Construction	Grocery	REPL	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1682	Cool Roof, Com, E- Cool [Building w Elec Heat]	C&I	C&I Retrofit	Grocery	RET	N	1.000	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105
1683	Cool Roof, Com, E- Heat [Building w Elec Heat]	C&I	C&I New Construction	Grocery	REPL	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1684	Cool Roof, Com, E- Heat [Building w Elec Heat]	C&I	C&I Retrofit	Grocery	RET	N	1.000	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105
1685	Cool Roof, Com, E- Cool [Building w Gas Heat]	C&I	C&I New Construction	Grocery	REPL	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1686	Cool Roof, Com, E- Cool [Building w Gas Heat]	C&I	C&I Retrofit	Grocery	RET	N	1.000	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105
1687	Cool Roof, Com, G- Heat [Building w Gas Heat]	C&I	C&I New Construction	Grocery	REPL	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1688	Cool Roof, Com, G- Heat [Building w Gas Heat]	C&I	C&I Retrofit	Grocery	RET	N	1.000	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105
1689	Optimized Unitary AC Sys. Com, E- Cool [Building w Elec Heat]	C&I	C&I New Construction	G												

1750	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Grocery	NC	Y	0.900	0.854	0.861	0.855	0.852	0.850	0.849	0.848	0.848	0.847
1751	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Grocery	RET	Y	0.090	0.065	0.052	0.042	0.034	0.028	0.023	0.019	0.015	0.013
1752	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.900	0.720	0.634	0.545	0.457	0.372	0.285	0.197	0.108	0.036
1753	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Grocery	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1754	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.082	0.072	0.067	0.057	0.050	0.045	0.050	0.055	0.060
1755	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Grocery	REPL	N	1.000	0.880	0.703	0.607	0.510	0.411	0.310	0.315	0.319	0.324
1756	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Grocery	NC	N	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
1757	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.080	0.071	0.062	0.054	0.047	0.041	0.036	0.031	0.027
1758	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Grocery	REPL	N	1.000	0.860	0.703	0.607	0.510	0.411	0.310	0.288	0.105	0.000
1759	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1760	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.078	0.066	0.055	0.046	0.039	0.033	0.030	0.028	0.025
1761	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.149	0.066
1762	Clothes Dryer, Com, G - Oth	C&I	C&I New Construction	Grocery	NC	N	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
1763	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.078	0.065	0.055	0.047	0.039	0.033	0.030	0.028	0.025
1764	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.230	0.148	0.065
1765	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1766	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1767	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1768	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1769	Case Night Control, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215
1770	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1771	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1772	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1773	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.084	0.077	0.070	0.063	0.058	0.053	0.065	0.076	0.088
1774	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.373	0.438	0.504
1775	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1776	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.083	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050
1777	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248
1778	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1779	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1780	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1781	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1782	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1783	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1784	Walk In Refrigerated, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661	0.660	0.659	0.659
1785	Refrigeration Tune Up, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.143	0.143	0.144	0.144	0.145	0.146	0.148	0.149	0.150	0.152
1786	ES Ice Machine, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1787	ES Ice Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1788	Walk In Cooler, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661	0.660	0.659	0.659
1789	HE Built Up Refrig, Com, E/G - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661	0.660	0.659	0.659
1790	HE Built Up Refrig, Com, E/G - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074
1791	Ovens, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1792	Ovens, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1793	Ovens, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1794	Ovens, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1795	Fryers, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1796	Fryers, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1797	Fryers, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1798	Fryers, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
1799	Steamers, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1800	Steamers, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1801	Steamers, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1802	Steamers, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
1803	Griddles, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1804	Griddles, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1805	Griddles, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1806	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
1807	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1808	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
1809	Motors, Com, E - Oth	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1810	Motors, Com, E - Oth	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
1811	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.241
1812	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1813	FDX on HVAC Pump, Com, E - Oth	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1814	EMS, Com, E - TotE [Building w Elec Heat]	C&I	C&I New Construction	Grocery	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
1815	EMS, Com, E - TotE [Building w Elec Heat]	C&I	C&I Retrofit	Grocery	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
1816	EMS, Com, E - TotE [Building w Gas Heat]	C&I	C&I New Construction	Grocery	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
1817	EMS, Com, E - TotE [Building w Gas Heat]	C&I	C&I Retrofit	Grocery	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
1818	EMS, Com, G - TotE [Building w Gas Heat]	C&I	C&I New Construction	Grocery	NC	Y	0.650	0.624	0.621	0.619	0.617	0.616	0.614	0.612	0.611	0.609
1819	EMS, Com, G - TotE [Building w Gas Heat]	C&I	C&I Retrofit	Grocery	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
1820	Deep Energy Retrofit, Com, E - TotE [Building w Elec Heat]	C&I	C&I Retrofit	Grocery	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
1821	Deep Energy Retrofit, Com, E - TotE [Building w Gas Heat]	C&I	C&I Retrofit	Grocery	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
1822	Integrated Building Design, Com, E - TotE [Building w Elec Heat]	C&I	C&I New Construction	Grocery	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1823	Integrated Building Design, Com, E - TotE [Building w Gas Heat]	C&I	C&I New Construction	Grocery	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1824	Commissioning, Com, E - TotE [Building w Elec Heat]	C&I	C&I New Construction	Grocery	NC	Y	0.000	0.000	0.000	0.000	0.000	0				

1885	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.152	0.095
1886	Furnace, Com, G - Heat	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1887	Furnace, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.086	0.079	0.072	0.066	0.061	0.056	0.051	0.047	0.043
1888	Furnace, Com, G - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.152	0.095
1889	Boilers, Com, G - Heat	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1890	Boilers, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	N	0.100	0.084	0.075	0.067	0.060	0.054	0.048	0.043	0.039	0.035
1891	Boilers, Com, G - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
1892	Boiler Modifications, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	Y	0.108	0.108	0.109	0.110	0.111	0.111	0.112	0.113	0.114	0.115
1893	Boiler Blowdown Controls, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	N	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
1894	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1895	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1896	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1897	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1898	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1899	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1900	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
1901	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
1902	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1903	Programmable TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1904	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1905	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1906	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1907	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1908	Int Ltg Dsgn, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1909	Int Ltg Dsgn, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1910	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Hospital	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
1911	Int Delamping, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
1912	Int Delamping, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
1913	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
1914	Stair Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1915	Stair Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1916	Stair Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1917	Stair Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1918	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1919	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1920	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
1921	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.036	0.038	0.040
1922	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
1923	Refrig Case Crls, Com, E - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
1924	Repl pin CFL wLED, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
1925	Repl pin CFL wLED, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
1926	Repl pin CFL wLED, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
1927	Repl pin CFL wLED, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
1928	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
1929	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
1930	LED Tube Repl, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
1931	LED Tube Repl, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
1932	LED Tube Repl, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
1933	LED Tube Repl, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
1934	LED Tube Repl, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
1935	LED Tube Repl, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
1936	Lin LED Fixture, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1937	Lin LED Fixture, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1938	Lin LED Fixture, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1939	Lin LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1940	Lin LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1941	Lin LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1942	Lin LED Fixture, Com, E/G - Intl	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1943	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1944	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1945	Repl Scre, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.950	0.940	0.930	0.920	0.910	0.900	0.890	0.880
1946	Repl Scre, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1947	Repl Scre, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1948	Repl Scre, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.950	0.940	0.930	0.920	0.910	0.900	0.890	0.880
1949	Repl Scre, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1950	Repl Scre, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1951	Repl Scre, Com, E - Intl	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.950	0.940	0.930	0.920	0.910	0.900	0.890	0.880
1952	Repl Scre, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1953	Repl Scre, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1954	Exit Sign Reflx, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1955	Exit Sign Reflx, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1956	Exit Sign Reflx, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
1957	Int Ltg Crls, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
1958	Int Ltg Crls, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	

2020	Minsplit Ductless AC, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2021	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2022	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2023	Chiller Tuning, Com, E - Cool	C&I	C&I Retrofit	Hospital	RET	N	0.200	0.200	0.203	0.205	0.207	0.209	0.211	0.213	0.215	0.217	0.219
2024	Chiller Systems, Com, E - Cool	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2025	Chiller Systems, Com, E - Cool	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.084	0.074	0.065	0.058	0.051	0.046	0.040	0.036	0.032	0.028
2026	Chiller Systems, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000	0.000
2027	Com Room AC, Com, E - Cool	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2028	Com Room AC, Com, E - Cool	C&I	C&I Retrofit	Hospital	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2029	Com Room AC, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2030	Com ES Dehumidifier, Com, E - Appl	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2031	Com ES Dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2032	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2033	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2034	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2035	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2036	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2037	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2038	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2039	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2040	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2041	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2042	Clothes Washer Gas WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.943	0.942	0.941	0.940
2043	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
2044	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2045	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2046	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.943	0.942	0.941	0.940
2047	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
2048	Clothes Washer Gas WH, Com, E - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Retrofit	Hospital	RET	Y	0.000	0.000	0.005	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2049	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
2050	Ozone Laundry, Com, E - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2051	Ozone Laundry, Com, G - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.100	0.101	0.101	0.102	0.103	0.104	0.105	0.106	0.106
2052	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2053	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2054	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2055	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2056	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2057	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2058	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.943	0.942	0.941	0.940
2059	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
2060	Com Faucet Aerator, Com, E - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2061	Com Faucet Aerator, Com, G - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2062	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Hospital	NC	Y	0.900	0.864	0.861	0.855	0.852	0.850	0.849	0.848	0.848	0.847	0.847
2063	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.090	0.065	0.052	0.042	0.034	0.028	0.023	0.019	0.015	0.013	0.011
2064	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.900	0.720	0.634	0.545	0.457	0.372	0.285	0.197	0.108	0.016	0.000
2065	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Hospital	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
2066	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.082	0.072	0.064	0.057	0.050	0.045	0.040	0.035	0.030	0.026
2067	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000	0.000
2068	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Hospital	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
2069	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.082	0.071	0.062	0.054	0.047	0.041	0.036	0.031	0.027	0.023
2070	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Hospital	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000	0.000
2071	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2072	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.078	0.066	0.055	0.046	0.039	0.033	0.030	0.028	0.025	0.022
2073	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000	0.000
2074	Clothes Dryer, Com, E - Oth	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.943	0.942	0.941	0.940
2075	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.078	0.065	0.055	0.047	0.039	0.033	0.030	0.028	0.025	0.022
2076	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.230	0.148	0.065	0.000
2077	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2078	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
2079	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2080	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2081	Case Night Covers, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215
2082	Loading Dock Pt Seals, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2083	Loading Dock Pt Seals, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2084	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2085	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.100	0.084	0.077	0.070	0.063	0.058	0.053	0.048	0.043	0.038	0.033
2086	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000	0.000
2087	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
2088	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.034	0.027	0.020	0.014
2089	Evap Fan Motor Replacement, Com, E - Refr	C&I</															

2155	Power Strip, Com, E- Plug (Tier 2)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.750	0.629	0.505	0.401	0.296	0.189	0.080	0.484	0.895
2156	Computer Power Management, Com, E- Plug	C&I	C&I Retrofit	Hospital	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2157	Vending Machine Controls, Com, E- Plug (Non-Refrigerated)	C&I	C&I Retrofit	Hospital	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2158	Vending Machine Controls, Com, E- Plug (Refrigerated)	C&I	C&I Retrofit	Hospital	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2159	Duct Sealing Regulated, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2160	Duct Sealing Regulated, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2161	Duct Sealing Regulated, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2162	Duct Sealing Regulated, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2163	Duct Sealing Regulated, Com, E- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2164	Duct Sealing Regulated, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2165	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2166	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2167	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2168	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2169	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2170	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2171	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2172	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2173	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2174	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2175	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.080	0.069	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2176	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.271	0.231	0.191
2177	VFD on HVAC system, Com, E- Vent	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2178	ECM Furnace Motors, Com, E- Vent	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2179	Motors and Fans, Com, E- Vent	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2180	Motors and Fans, Com, E- Vent	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.078	0.065	0.055	0.046	0.039	0.033	0.028	0.023	0.020
2181	Motors and Fans, Com, E- Vent	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.211	0.110	0.007
2182	Window Film, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2183	Window Film, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2184	Window Film, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2185	Window Film, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2186	Windows, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2187	Windows, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2188	Windows, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2189	Windows, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2190	Steam Trap Maintenance, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.086	0.079	0.069	0.066	0.061	0.056	0.051	0.047	0.043
2191	Forced Air Heating Maintenance, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
2192	Energy Recovery Ventilator, Com, G- Heat	C&I	C&I New Construction	Hospital	NC	Y	0.800	0.768	0.764	0.762	0.760	0.758	0.756	0.754	0.752	0.750
2193	Energy Recovery Ventilator, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.080	0.062	0.052	0.044	0.037	0.031	0.026	0.022	0.018	0.015
2194	Energy Recovery Ventilator, Com, G- Heat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.800	0.640	0.563	0.486	0.408	0.329	0.248	0.167	0.084	0.000
2195	Furnace, Com, G- Heat	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2196	Furnace, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.086	0.079	0.069	0.066	0.061	0.056	0.051	0.047	0.043
2197	Furnace, Com, G- Heat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
2198	Boilers, Com, G- Heat	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2199	Boilers, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.084	0.075	0.067	0.060	0.054	0.048	0.043	0.039	0.035
2200	Boilers, Com, G- Heat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
2201	Boiler Modifications, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.108	0.108	0.109	0.110	0.111	0.111	0.112	0.113	0.114	0.115
2202	Boiler Blowdown Controls, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
2203	Smart TStat, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2204	Smart TStat, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2205	Smart TStat, Com, E- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2206	Smart TStat, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2207	Smart TStat, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2208	Smart TStat, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2209	Smart TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2210	Smart TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.100	0.101	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2211	Programmable TStat, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2212	Programmable TStat, Com, E- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2213	Programmable TStat, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2214	Programmable TStat, Com, E- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2215	Programmable TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2216	Programmable TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2217	Int Ltg Dsgn, Com, E- Intl, [No Heat]	C&I	C&I New Construction	Food Service	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2218	Int Ltg Dsgn, Com, E- Intl, [Electric Heat]	C&I	C&I New Construction	Food Service	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2219	Int Ltg Dsgn, Com, E/G- Intl	C&I	C&I New Construction	Food Service	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2220	Int Delamping, Com, E- Intl, [No Heat]	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
2221	Int Delamping, Com, E- Intl, [Electric Heat]	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
2222	Int Delamping, Com, E/G- Intl	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
2223	Stair Occ Sensor, Com, E- Intl, [No Heat]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2224	Stair Occ Sensor, Com, E- Intl, [No Heat]	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2225	Stair Occ Sensor, Com, E- Intl, [Electric Heat]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2226	Stair Occ Sensor, Com, E- Intl, [Electric Heat]	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2227	Stair Occ Sensor, Com, E/G- Intl	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2228	Stair Occ Sensor, Com, E/G- Intl	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0		

2290	PTHP, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2291	PTHP, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2292	PTHP, Com, E- Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2293	PTHP, Com, E- Heat	C&I	C&I New Construction	Food Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2294	PTHP, Com, E- Heat	C&I	C&I Retrofit	Food Service	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2295	PTHP, Com, E- Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2296	Unitary HP, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.989	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939	0.938
2297	Unitary HP, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.082	0.073	0.064	0.057	0.050	0.045	0.055	0.045	0.055	0.045	0.062
2298	Unitary HP, Com, E- Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340	0.350	0.360
2299	Unitary HP, Com, E- Heat	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2300	Unitary HP, Com, E- Heat	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062	0.067	0.072
2301	Unitary HP, Com, E- Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340	0.350	0.360
2302	Com GSHp, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2303	Com GSHp, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2304	Com GSHp, Com, E- Heat	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026	0.022	0.019
2305	Com GSHp, Com, E- Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.299	0.308	0.316	0.324	0.332
2306	Cool Roof, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2307	Cool Roof, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107	0.108
2308	Cool Roof, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	N	0.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2309	Cool Roof, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107	0.108
2310	Cool Roof, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2311	Cool Roof, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107	0.108
2312	Cool Roof, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934	0.931
2313	Cool Roof, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.104	0.105	0.106	0.107	0.108	0.109
2314	Optimized Unitary AC Sys, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2315	Optimized Unitary AC Sys, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2316	Optimized Unitary AC Sys, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2317	Optimized Unitary AC Sys, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934	0.931
2318	Controls for Unitary AC, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107	0.108
2319	AC Tuneup, Com, E- Cool [ASHP]	C&I	C&I Retrofit	Food Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215	0.217
2320	AC Tuneup, Com, E- Heat [ASHP]	C&I	C&I Retrofit	Food Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215	0.217
2321	AC Tuneup, Com, E- Cool [Unitary AC]	C&I	C&I Retrofit	Food Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215	0.217
2322	Unitary Equipment Replacement, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2323	PTAC, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2324	PTAC, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.038	0.038	0.038	0.038	0.038
2325	PTAC, Com, E- Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156	0.104	0.052
2326	Eff Unitary AC, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2327	Eff Unitary AC, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.081	0.071	0.061	0.053	0.047	0.041	0.043	0.046	0.048	0.050	0.052
2328	Eff Unitary AC, Com, E- Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2329	Minisplit Ductless AC, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2330	Minisplit Ductless AC, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2331	Minisplit Ductless AC, Com, E- Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2332	Com Room AC, Com, E- Cool	C&I	C&I New Construction	Food Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2333	Com Room AC, Com, E- Cool	C&I	C&I Retrofit	Food Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2334	Com Room AC, Com, E- Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2335	Com ES Dehumidifier, Com, E- Appl	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2336	Com ES Dehumidifier, Com, E- Appl	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
2337	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Washer]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2338	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Washer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
2339	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2340	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
2341	Clothes Washer Elec WH, Com, E- H-Wat [unit w/ elec dry- Water Heater]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2342	Clothes Washer Elec WH, Com, E- H-Wat [unit w/ elec dry- Water Heater]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
2343	Clothes Washer Gas WH, Com, E- Appl [unit w/ elec dry- Washer]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2344	Clothes Washer Gas WH, Com, E- Appl [unit w/ elec dry- Washer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
2345	Clothes Washer Gas WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2346	Clothes Washer Gas WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
2347	Clothes Washer Gas WH, Com, G- H-Wat [unit w/ elec dry- Water Heater]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934	0.931
2348	Clothes Washer Gas WH, Com, G- H-Wat [unit w/ elec dry- Water Heater]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066	1.074
2349	Clothes Washer Gas WH, Com, E- Appl [unit w/ gas dry- Washer]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2350	Clothes Washer Gas WH, Com, E- Appl [unit w/ gas dry- Washer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073	1.083
2351	Clothes Washer Gas WH, Com, G- 0-th [unit w/ gas dry- Dryer]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934	0.931
2352	Clothes Washer Gas WH, Com, G- 0-th [unit w/ gas dry- Dryer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066	1.074
2353	Clothes Washer Gas WH, Com, G- H-Wat [unit w/ gas dry- Water Heater]	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.952	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940	0.939
2354	Clothes Washer Gas WH, Com, G- H-Wat [unit w/ gas dry- Water Heater]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066	1.074
2355	Ozone Laundry, Com, E- H-Wat	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103					

2425	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
2426	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2427	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
2428	Motors, Com, E - Oth	C&I	C&I New Construction	Food Service	NC	Y	0.940	0.940	0.947	0.949	0.947	0.946	0.947	0.947	0.947	0.947
2429	Motors, Com, E - Oth	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
2430	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.241
2431	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2432	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2433	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
2434	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.068
2435	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
2436	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
2437	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.650	0.624	0.621	0.619	0.617	0.616	0.614	0.612	0.611	0.609
2438	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
2439	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
2440	Deep Energy Retrofit, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
2441	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.096	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2442	Integrated Building Design, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2443	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2444	Commissioning, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2445	RCX, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
2446	RCX, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
2447	RCX, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.063	0.063	0.063	0.063	0.064	0.064	0.065	0.065	0.066	0.066
2448	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2449	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2450	Pneumatic to DDC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.100	0.100	0.100	0.102	0.103	0.103	0.104	0.105	0.106
2451	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Food Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2452	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Food Service	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2453	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2454	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.943	0.943
2455	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Food Service	RET	Y	0.125	0.083	0.063	0.048	0.039	0.032	0.027	0.023	0.084	0.132
2456	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.750	0.629	0.505	0.401	0.296	0.189	0.080	0.484	0.895
2457	Computer Power Management, Com, E - Plug	C&I	C&I Retrofit	Food Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2458	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Food Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2459	Vending Machine Controls, Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Food Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2460	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2461	Duct Sealing Regulated, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2462	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2463	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2464	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2465	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2466	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I New Construction	Food Service	RET	Y	0.960	0.960	0.967	0.969	0.946	0.945	0.944	0.943	0.942	0.941
2467	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2468	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2469	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2470	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2471	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2472	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2473	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2474	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2475	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2476	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.080	0.069	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2477	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.271	0.231	0.191
2478	VFD on HVAC system, Com, E - Vent	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2479	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2480	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2481	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Food Service	RET	Y	0.100	0.078	0.065	0.055	0.046	0.039	0.033	0.028	0.023	0.020
2482	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.211	0.110	0.007
2483	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2484	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2485	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2486	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2487	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2488	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2489	Windows, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2490	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2491	Steam Trap Maintenance, Com, G - Heat	C&I	C&I Retrofit	Food Service	RET	Y	0.147	0.147	0.149	0.149	0.147	0.147	0.147	0.147	0.147	0.146
2492	Forced Air Heating Maintenance, Com, G - Heat	C&I	C&I Retrofit	Food Service	RET	N	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
2493	Destratification Fans, Com, G - Heat	C&I	C&I New Construction	Food Service	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2494	Destratification Fans, Com, G - Heat	C&I	C&I Retrofit	Food Service	RET	N	0.100	0.082	0.073	0.065	0.058	0.052	0.046	0.052	0.058	0.064
2495	Destratification Fans, Com, G - Heat	C&I	C&I Equipment Replacement	Food Service	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.324	0.338	0.353
2496	Unit Heater, Com, G - Heat	C&I	C&I New Construction	Food Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2497	Unit Heater, Com, G - Heat	C&I	C&I Retrofit	Food Service	RET	Y	0.081	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
2498	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	1.000	0.800								

2560	Repl Scre Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2561	Repl Scre Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2562	Repl Scre Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2563	Repl Scre Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2564	Repl Scre Com, E/G - Intl	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2565	Repl Scre Com, E/G - Intl	C&I	C&I Retrofit	Health Service	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2566	Repl Scre Com, E/G - Intl	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2567	Exit Sign RetRt Com, E - Intl (No Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2568	Exit Sign RetRt Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2569	Exit Sign RetRt Com, E/G - Intl	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2570	Int Ltg Crls Com, E - Intl (No Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133	0.133
2571	Int Ltg Crls Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133	0.133
2572	Int Ltg Crls Com, E/G - Intl	C&I	C&I Retrofit	Health Service	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133	0.133
2573	Ext Ltg Dsgn Com, E - Extl	C&I	C&I New Construction	Health Service	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094	0.094
2574	Ext Ltg Crls Com, E - Extl	C&I	C&I Retrofit	Health Service	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133	0.133
2575	Street Ltg Com, E - Extl	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2576	Street Ltg Com, E - Extl	C&I	C&I Retrofit	Health Service	RET	Y	0.081	0.081	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050	0.050
2577	Street Ltg Com, E - Extl	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248	0.248
2578	Ext Area Ltg Com, E - Extl	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2579	Ext Area Ltg Com, E - Extl	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.082	0.073	0.065	0.058	0.051	0.046	0.052	0.058	0.064	0.064
2580	Ext Area Ltg Com, E - Extl	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.324	0.339	0.354	0.354
2581	Minisplit Ductless HP Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022	0.022
2582	Minisplit Ductless HP Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.800	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.094	0.094
2583	Minisplit Ductless HP Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022	0.022
2584	Minisplit Ductless HP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.094	0.094
2585	PTHP Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2586	PTHP Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2587	PTHP Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2588	PTHP Com, E - Heat	C&I	C&I New Construction	Health Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2589	PTHP Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2590	PTHP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2591	Unitary HP Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2592	Unitary HP Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062	0.062
2593	Unitary HP Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340	0.340
2594	Unitary HP Com, E - Heat	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2595	Unitary HP Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062	0.062
2596	Unitary HP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340	0.340
2597	Com GSHP Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026	0.026
2598	Com GSHP Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.090	0.090
2599	Com GSHP Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026	0.026
2600	Com GSHP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.090	0.090
2601	Cool Roof Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2602	Cool Roof Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2603	Cool Roof Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2604	Cool Roof Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2605	Cool Roof Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2606	Cool Roof Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2607	Cool Roof Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2608	Cool Roof Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2609	Optimized Chiller Sys Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2610	Optimized Unitary AC Sys Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2611	Optimized Unitary AC Sys Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2612	Optimized Unitary AC Sys Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2613	Optimized Unitary AC Sys Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.937
2614	Controls for Unitary AC Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2615	DCV Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2616	DCV Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2617	DCV Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2618	DCV Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2619	DCV Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2620	DCV Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2621	AC Tuneup Com, E - Cool (ASHP)	C&I	C&I Retrofit	Health Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213
2622	AC Tuneup Com, E - Heat (ASHP)	C&I	C&I Retrofit	Health Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213
2623	AC Tuneup Com, E - Cool (Unitary AC)	C&I	C&I Retrofit	Health Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.213
2624	Unitary Equipment Economizer Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.106
2625	PTAC Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2626	PTAC Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.089	0.079	0.069	0.061	0.054	0.047	0.053	0.058	0.063	0.063
2627	PTAC Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156	0.156
2628	Eff Unitary AC Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.941
2629	Eff Unitary AC Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.081	0.071	0.061	0.053	0.047	0.041	0.043	0.046	0.048	0.048
2630	Eff Unitary AC Com, E - Cool	C&I															

2695	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
2696	Walk In Refrigeration, Com, E - Refr	C&I	C&I New Construction	Health Service	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661	0.660	0.659	0.659
2697	Refrigeration Tune Up, Com, E - Refr	C&I	C&I Retrofit	Health Service	RET	Y	0.143	0.143	0.144	0.144	0.145	0.146	0.148	0.149	0.150	0.152
2698	ES Ice Machine, Com, E - Oth	C&I	C&I New Construction	Health Service	NC	Y	0.960	0.960	0.967	0.969	0.966	0.965	0.965	0.965	0.965	0.965
2699	ES Ice Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
2700	Walk In Cooler Retrofit, Com, E - Refr	C&I	C&I Retrofit	Health Service	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074
2701	HE Built Up Refrig, Com, E/G - Refr	C&I	C&I New Construction	Health Service	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661	0.660	0.659	0.659
2702	HE Built Up Refrig, Com, E/G - Refr	C&I	C&I Retrofit	Health Service	RET	N	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074
2703	Motors, Com, E - Oth	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2704	Motors, Com, E - Oth	C&I	C&I Retrofit	Health Service	RET	Y	0.080	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
2705	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.241
2706	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2707	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2708	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
2709	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
2710	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
2711	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
2712	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.650	0.624	0.621	0.619	0.617	0.616	0.614	0.612	0.611	0.609
2713	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
2714	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
2715	Deep Energy Retrofit, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
2716	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2717	Integrated Building Design, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2718	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2719	Commissioning, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2720	RxC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
2721	RxC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
2722	RxC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.063	0.063	0.063	0.063	0.064	0.064	0.065	0.065	0.066	0.066
2723	Data Center, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2724	Data Center, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2725	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2726	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2727	Data Center, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2728	Data Center, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2729	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2730	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2731	Pneumatic to DDC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.100	0.100	0.101	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2732	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Health Service	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2733	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Health Service	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2734	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2735	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2736	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Health Service	RET	Y	0.083	0.083	0.083	0.083	0.083	0.084	0.084	0.084	0.084	0.084
2737	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.750	0.629	0.505	0.401	0.296	0.189	0.080	0.484	0.895
2738	Computer Power Management, Com, E - Plug	C&I	C&I Retrofit	Health Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2739	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Health Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2740	Vending Machine Controls, Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Health Service	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2741	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2742	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2743	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2744	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2745	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2746	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2747	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2748	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.080	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.041
2749	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2750	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2751	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2752	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2753	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2754	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.080	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.041
2755	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
2756	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2757	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.080	0.069	0.060	0.052	0.045	0.039	0.040	0.041	0.042
2758	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.271	0.231	0.191
2759	VFD on HVAC System, Com, E - Vent	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2760	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2761	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Health Service	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2762	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.078	0.065	0.055	0.046	0.039	0.033	0.028	0.023	0.020
2763	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Health Service	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.211	0.110	0.007
2764	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2765	Window Film, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2766	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2767	Window Film, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2768	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Health Service												

2830 LED Tube Repl. Com, E- Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2831 LED Tube Repl. Com, E/G- Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.030	0.040	0.040
2832 LED Tube Repl. Com, E/G- Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2833 Lin LED Fixture, Com, E- Intl. [No Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2834 Lin LED Fixture, Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2835 Lin LED Fixture, Com, E- Intl. [No Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2836 Lin LED Fixture, Com, E- Intl. [Electric Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2837 Lin LED Fixture, Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2838 Lin LED Fixture, Com, E- Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2839 Lin LED Fixture, Com, E/G- Intl.	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2840 Lin LED Fixture, Com, E/G- Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2841 Lin LED Fixture, Com, E/G- Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2842 Repl Scr. Com, E- Intl. [No Heat]	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2843 Repl Scr. Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2844 Repl Scr. Com, E- Intl. [No Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2845 Repl Scr. Com, E- Intl. [Electric Heat]	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2846 Repl Scr. Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2847 Repl Scr. Com, E- Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2848 Repl Scr. Com, E/G- Intl.	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2849 Repl Scr. Com, E- Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2850 Repl Scr. Com, E/G- Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2851 Exit Sign Refr#_ Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2852 Exit Sign Refr#_ Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2853 Exit Sign Refr#_ Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2854 Int Lig Crls_ Com, E- Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
2855 Int Lig Crls_ Com, E- Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
2856 Int Lig Crls_ Com, E/G- Intl.	C&I	C&I New Construction	Lodging	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2857 Ext Lig Dsgn_ Com, E- Extl.	C&I	C&I New Construction	Lodging	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
2858 Ext Lig Crls_ Com, E- Extl.	C&I	C&I Retrofit	Lodging	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
2859 Street Lig_ Com, E- Extl.	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2860 Street Lig_ Com, E- Extl.	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050
2861 Street Lig_ Com, E- Extl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2862 Ext Area Lig_ Com, E- Extl.	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.989	0.989	0.989	0.989	0.989	0.989	0.989	0.989	0.989
2863 Ext Area Lig_ Com, E- Extl.	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.082	0.073	0.065	0.058	0.051	0.046	0.052	0.058	0.064
2864 Ext Area Lig_ Com, E- Extl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2865 Minisplit Ductless HP_ Com, E- Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
2866 Minisplit Ductless HP_ Com, E- Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2867 Minisplit Ductless HP_ Com, E- Heat	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
2868 Minisplit Ductless HP_ Com, E- Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2869 PTHP_ Com, E- Cool	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2870 PTHP_ Com, E- Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2871 PTHP_ Com, E- Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2872 PTHP_ Com, E- Heat	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2873 PTHP_ Com, E- Heat	C&I	C&I Retrofit	Lodging	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2874 PTHP_ Com, E- Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2875 Unitary HP_ Com, E- Cool	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2876 Unitary HP_ Com, E- Cool	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062
2877 Unitary HP_ Com, E- Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2878 Unitary HP_ Com, E- Heat	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2879 Unitary HP_ Com, E- Heat	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062
2880 Unitary HP_ Com, E- Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2881 Com GSHP_ Com, E- Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026
2882 Com GSHP_ Com, E- Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2883 Com GSHP_ Com, E- Heat	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026
2884 Com GSHP_ Com, E- Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
2885 Cool Roof_ Com, E- Cool [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2886 Cool Roof_ Com, E- Cool [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2887 Cool Roof_ Com, E- Cool [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2888 Cool Roof_ Com, E- Heat [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2889 Cool Roof_ Com, E- Heat [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2890 Cool Roof_ Com, E- Heat [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2891 Cool Roof_ Com, E- Heat [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2892 Cool Roof_ Com, G- Heat [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
2893 Optimized Unitary AC Sys_ Com, E- Cool [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2894 Optimized Unitary AC Sys_ Com, E- Heat [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2895 Optimized Unitary AC Sys_ Com, E- Cool [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2896 Optimized Unitary AC Sys_ Com, G- Heat [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2897 Controls for Unitary AC_ Com, E- Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2898 DCV_ Com, E- Cool [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2899 DCV_ Com, E- Heat [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2900 DCV_ Com, E- Vent [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2901 DCV_ Com, E- Cool [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2902 DCV_ Com, G- Heat [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2903 DCV_ Com, E- Vent [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2904 AC Tuneup_ Com, E- Cool [ASHP]	C&I	C&I Retrofit	Lodging	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2905 AC Tuneup_ Com, E- Heat [ASHP]	C&I	C&I Retrofit	Lodging	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
2906 AC Tuneup_ Com, Cool [Unitary AC]	C&I	C&I Retrofit	Lodging	RET	Y	0.200	0.200	0.201	0.202	0.203					

2955	Gas Tankless Water Heater, Com, G- HWat	C&I	C&I Retrofit	Lodging	REPL	N	1.000	0.0802	0.071	0.062	0.054	0.047	0.041	0.036	0.031	0.027
2966	Gas Tankless Water Heater, Com, G- HWat	C&I	C&I Equipment Replacement	Lodging	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
2967	Clothes Dryer, Com, E- Appl	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2968	Clothes Dryer, Com, E- Appl	C&I	C&I Retrofit	Lodging	RET	Y	1.000	0.078	0.066	0.055	0.046	0.039	0.033	0.030	0.028	0.025
2969	Clothes Dryer, Com, E- Appl	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.149	0.066
2970	Clothes Dryer, Com, E- Oth	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2971	Clothes Dryer, Com, G- Oth	C&I	C&I New Construction	Lodging	NC	N	0.078	0.066	0.057	0.048	0.040	0.033	0.028	0.025	0.023	0.020
2972	Clothes Dryer, Com, G- Oth	C&I	C&I Equipment Replacement	Lodging	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.230	0.148	0.066
2973	ES Refrigerator and Freezer, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2974	ES Refrigerator and Freezer, Com, E- Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
2975	Anti Sweat Heat Control, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2976	Anti Sweat Heat Control, Com, E- Refr	C&I	C&I Retrofit	Lodging	RET	N	1.000	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105
2977	Loading Dock PE Seals, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	N	0.960	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2978	Loading Dock PE Seals, Com, E- Refr	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
2979	ECM Comp Cond Fan Motor, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2980	ECM Comp Cond Fan Motor, Com, E- Refr	C&I	C&I Retrofit	Lodging	RET	N	1.000	0.084	0.077	0.070	0.063	0.058	0.053	0.065	0.076	0.086
2981	ECM Comp Cond Fan Motor, Com, E- Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.148	0.066
2982	Evap Fan Motor Replacement, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2983	Evap Fan Motor Replacement, Com, E- Refr	C&I	C&I Retrofit	Lodging	RET	Y	1.000	0.081	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050
2984	Evap Fan Motor Replacement, Com, E- Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.148	0.066
2985	Evap Fan Speed Controls, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2986	Evap Fan Speed Controls, Com, E- Refr	C&I	C&I Retrofit	Lodging	RET	Y	1.000	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105
2987	LowHeat NoHeat Doors, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2988	LowHeat NoHeat Doors, Com, E- Refr	C&I	C&I Retrofit	Lodging	RET	Y	1.000	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105
2989	Refrigerated Vending Machine, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2990	Refrigerated Vending Machine, Com, E- Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
2991	Walk In Refrigerator, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	0.700	0.617	0.610	0.605	0.602	0.601	0.600	0.600	0.600	0.600
2992	Refrigeration Tune Up, Com, E- Refr	C&I	C&I Retrofit	Lodging	RET	Y	0.143	0.143	0.144	0.144	0.145	0.146	0.148	0.149	0.150	0.152
2993	ES Ice Machine, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2994	ES Ice Machine, Com, E- Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
2995	Walk In Cooler Retrofit, Com, E- Refr	C&I	C&I New Construction	Lodging	NC	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074
2996	Ovens, Com, E- Cook	C&I	C&I New Construction	Lodging	NC	Y	0.960	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
2997	Ovens, Com, E- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.074
2998	Ovens, Com, G- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
2999	Ovens, Com, G- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
3000	Fryers, Com, E- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3001	Fryers, Com, E- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3002	Fryers, Com, G- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3003	Fryers, Com, G- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
3004	Steamers, Com, E- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3005	Steamers, Com, E- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3006	Steamers, Com, G- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3007	Steamers, Com, G- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
3008	Griddles, Com, E- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3009	Griddles, Com, E- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3010	Griddles, Com, G- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3011	Griddles, Com, G- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
3012	Hot Food Holding Cabinet, Com, E- Cook	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3013	Hot Food Holding Cabinet, Com, E- Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3014	Motors, Com, E- Oth	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3015	Motors, Com, E- Oth	C&I	C&I Retrofit	Lodging	RET	Y	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.047	0.050	0.053
3016	Motors, Com, E- Oth	C&I	C&I Equipment Replacement	Lodging	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.230	0.148	0.066
3017	ECM Circulators, Com, E- Oth	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3018	VFDs on HVAC Pumps, Com, E- Oth	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3019	EMS, Com, E- TotE [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
3020	EMS, Com, E- TotE [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.068	0.068	0.068	0.069
3021	EMS, Com, E- TotE [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
3022	EMS, Com, E- TotE [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.068	0.068	0.068	0.069
3023	EMS, Com, G- TotG [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.650	0.624	0.621	0.619	0.617	0.616	0.614	0.612	0.611	0.609
3024	EMS, Com, G- TotG [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
3025	Deep Energy Retrofit, Com, E- TotE [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
3026	Deep Energy Retrofit, Com, E- TotE [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
3027	Integrated Building Design, Com, E- TotE [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3028	Integrated Building Design, Com, E- TotE [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
3029	Commissioning, Com, E- TotE [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3030	Commissioning, Com, E- TotE [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3031	RCX, Com, E- TotE [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
3032	RCX, Com, E- TotE [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
3033	RCX, Com, G- TotG [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.063	0.063	0.063	0.063	0.064	0.064	0.065	0.065	0.066	0.066
3034	Pneumatic to DDC, Com, E- TotE [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3035	Pneumatic to DDC, Com, E- TotE [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3036	Pneumatic to DDC, Com, E- TotE [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
3037	Power Strip, Com, E- Plug [Tier 1]	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3038	Power Strip, Com, E- Plug [Tier 1]	C&I	C&I Retrofit	Lodging	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3039	Power Strip, Com, E- Plug [Tier 1]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.000	0.000</								

3100	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3101	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.101	0.101	0.102	0.103	0.104	0.105	0.106	
3102	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3103	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.104	0.104	0.105	0.106
3104	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3105	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3106	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3107	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3108	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3109	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3110	Int Ltg Dsgn, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3111	Int Ltg Dsgn, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3112	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3113	Int Delamping, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.040	0.040	0.041	0.041	0.041	0.041	0.042	0.042	0.043
3114	Int Delamping, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.040	0.040	0.041	0.041	0.041	0.041	0.042	0.042	0.043
3115	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
3116	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3117	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3118	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3119	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.103	0.104	0.105	0.106	
3120	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3121	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3122	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3123	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.036	0.038	0.040
3124	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
3125	Refrig Case Chils, Com, E - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
3126	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.081	0.080	0.079	0.081	0.081	0.081	0.081	0.082	0.083	0.084
3127	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
3128	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
3129	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
3130	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
3131	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
3132	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.080	0.080	0.081	0.081	0.081	0.081	0.081	0.082	0.083	0.084
3133	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
3134	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
3135	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
3136	LED Tube Repl, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
3137	LED Tube Repl, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
3138	LED Fixture, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3139	LED Fixture, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3140	LED Fixture, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3141	LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3142	LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3143	LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3144	LED Fixture, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3145	LED Fixture, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3146	LED Fixture, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3147	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
3148	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3149	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3150	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
3151	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3152	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3153	Repl Scre, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960	0.960
3154	Repl Scre, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3155	Repl Scre, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3156	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3157	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.082	0.083	0.084
3158	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3159	LED Hilo Bay, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3160	LED Hilo Bay, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
3161	LED Hilo Bay, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3162	LED Hilo Bay, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3163	LED Hilo Bay, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.082	0.083	0.084
3164	LED Hilo Bay, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3165	Exit Sign ReflT, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3166	Exit Sign ReflT, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3167	Exit Sign ReflT, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3168	Int Ltg Crls, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
3169	Int Ltg Crls, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
3170	Int Ltg Crls, Com, E - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
3171	Ext Ltg Dsgn, Com, E - Extl	C&I	C&I New Construction	Small Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3172	Ext Ltg Crls, Com, E - Extl	C&I	C&I Retrofit	Small Retail	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
3173	Street Ltg, Com, E - Extl	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3174	Street Ltg, Com, E															

3235	Com Room AC, Com, E - Cool	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3236	Com ES Dehumidifier, Com, E - Appl	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3237	Com ES Dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3238	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3239	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3240	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3241	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3242	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3243	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3244	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3245	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3246	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3247	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3248	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.939	0.936	0.933
3249	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
3250	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3251	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3252	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.939	0.936	0.933
3253	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058	1.066
3254	Ozone Laundry, Com, E - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107
3255	Ozone Laundry, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
3256	Dishwasher, Com, E - Appl [Building w/ elec WH]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3257	Dishwasher, Com, E - Appl [Building w/ elec WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3258	Dishwasher, Com, E - HWat [Building w/ elec WH]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3259	Dishwasher, Com, E - HWat [Building w/ elec WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3260	Dishwasher, Com, E - Appl [Building w/ gas WH]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3261	Dishwasher, Com, E - Appl [Building w/ gas WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3262	Dishwasher, Com, G - HWat [Building w/ gas WH]	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
3263	Dishwasher, Com, G - HWat [Building w/ gas WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.043	1.051	1.059	1.068
3264	Com Faucet Aerator, Com, E - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107
3265	Com Faucet Aerator, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
3266	Pre Rinse Sprayers, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212	0.214
3267	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Small Retail	NC	Y	0.900	0.864	0.861	0.855	0.852	0.850	0.849	0.848	0.848	0.848	0.847
3268	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.090	0.065	0.052	0.042	0.034	0.028	0.023	0.019	0.015	0.013	0.011
3269	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.900	0.720	0.694	0.675	0.657	0.642	0.626	0.610	0.594	0.578	0.562
3270	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Small Retail	NC	N	1.000	0.960	0.955	0.952	0.940	0.937	0.945	0.942	0.940	0.937	0.934
3271	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	N	0.100	0.082	0.072	0.064	0.057	0.050	0.045	0.040	0.035	0.030	0.025
3272	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Small Retail	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.315	0.319	0.324	0.329
3273	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Small Retail	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937	0.934
3274	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	N	0.100	0.082	0.071	0.062	0.054	0.047	0.041	0.036	0.031	0.027	0.023
3275	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Small Retail	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.308	0.305	0.300	0.295
3276	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3277	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.078	0.066	0.055	0.046	0.039	0.033	0.030	0.028	0.025	0.022
3278	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.319	0.318	0.317
3279	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3280	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3281	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3282	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107
3283	Case Night Covers, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	N	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213	0.215
3284	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3285	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107
3286	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3287	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.084	0.077	0.070	0.063	0.058	0.053	0.049	0.046	0.043	0.040
3288	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.319	0.318	0.317
3289	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3290	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050	0.053
3291	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248	0.227
3292	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3293	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106	0.107
3294	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.900	0.860	0.857	0.849	0.846	0.845	0.844	0.843	0.842	0.841	0.840
3295	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.103	0.104	0.105	0.106
3296	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3297	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3298	Walk In Refrigeration, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661	0.660	0.659	0.659	0.659
3299	Refrigeration Tune Up, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.143	0.143	0.144	0.144	0.145	0.146	0.148	0.149	0.150	0.152	0.152
3300	ES Ice Machine, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941	0.940
3301	ES Ice Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063	1.073
3302	Walk In Cooler Retrofit, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.070	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074	0.074
3303	HE Built Up Refrig, Com, E/G - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661				

3370	Kitchen DCV Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3371	Kitchen DCV Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	1.000	0.800	0.069	0.060	0.052	0.045	0.039	0.040	0.041	0.042
3372	Kitchen DCV Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.271	0.231	0.191
3373	VFD on HVAC System, E - Vent	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3374	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3375	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3376	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.078	0.065	0.055	0.046	0.039	0.033	0.028	0.023	0.020
3377	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.211	0.110	0.007
3378	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3379	Window Film, Com, G - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3380	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3381	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3382	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3383	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3384	Windows, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3385	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3386	Steam Trap Maintenance, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.167	0.167	0.167	0.169	0.170	0.171	0.172	0.174	0.175	0.176
3387	Infrared Heater, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3388	Infrared Heater, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.100	0.088	0.082	0.077	0.073	0.068	0.064	0.060	0.075	0.090
3389	Infrared Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.293	0.379
3390	Forced Air Heating Maintenance, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
3391	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	0.800	0.788	0.784	0.782	0.780	0.758	0.756	0.754	0.752	0.750
3392	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.063	0.063	0.062	0.064	0.067	0.061	0.056	0.052	0.048	0.044
3393	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.800	0.640	0.563	0.486	0.408	0.329	0.248	0.167	0.084	0.000
3394	Unit Heater, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3395	Unit Heater, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.035	0.035	0.036
3396	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.152	0.095
3397	Furnace, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3398	Furnace, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.086	0.079	0.072	0.066	0.061	0.056	0.051	0.047	0.042
3399	Furnace, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
3400	Boilers, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3401	Boilers, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.100	0.084	0.075	0.067	0.060	0.054	0.048	0.043	0.039	0.035
3402	Boilers, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
3403	Boiler Modifications, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.108	0.108	0.109	0.110	0.111	0.111	0.112	0.113	0.114	0.115
3404	Boiler Blowdown Controls, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.200	0.200	0.201	0.202	0.204	0.205	0.207	0.208	0.210	0.212
3405	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3406	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3407	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3408	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3409	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3410	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3411	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
3412	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
3413	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3414	Programmable TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3415	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3416	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3417	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3418	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3419	Int Ltg Dsgn, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3420	Int Ltg Dsgn, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3421	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Large Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3422	Int Delamping, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
3423	Int Delamping, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
3424	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.040	0.040	0.040	0.040	0.041	0.041	0.041	0.042	0.042	0.043
3425	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3426	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3427	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3428	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3429	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Large Retail	NC	Y	0.990	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3430	Stair Occ Sensor, E/G - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.103	0.104	0.105
3431	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3432	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.081	0.071	0.062	0.054	0.047	0.041	0.036	0.038	0.040
3433	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
3434	Refrig Case Crls, Com, E - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.132	0.133
3435	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
3436	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.171	0.133
3437	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
3438	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
3439	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.048
3440	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.240
3441	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.039	0.040	0.040
3442	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3443	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.		

3506	Com GSHP, Com, E- Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000
3507	Com GSHP, Com, E- Heat	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026
3508	Com GSHP, Com, E- Heat	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000
3509	Cool Roof, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3510	Cool Roof, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3511	Cool Roof, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3512	Cool Roof, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3513	Cool Roof, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	N	0.960	0.920	0.917	0.909	0.946	0.945	0.944	0.943	0.942	0.941
3514	Cool Roof, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3515	Cool Roof, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3516	Cool Roof, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.104	0.105	0.106	0.106
3517	Optimized Chiller Sys, Com, E- Cool	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3518	Optimized Unitary AC Sys, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3519	Optimized Unitary AC Sys, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.080	0.067	0.059	0.053	0.046	0.040	0.035	0.030	0.026
3520	Optimized Unitary AC Sys, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3521	Optimized Unitary AC Sys, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3522	Controls for Unitary AC, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3523	DCV, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3524	DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3525	DCV, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3526	DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
3527	DCV, Com, G- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3528	AC Tuneup, Com, E- Cool [ASHP]	C&I	C&I Retrofit	Large Retail	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3529	AC Tuneup, Com, E- Heat [ASHP]	C&I	C&I Retrofit	Large Retail	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3530	AC Tuneup, Com, E- Cool [Unitary AC]	C&I	C&I Retrofit	Large Retail	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3531	Unitary Equipment Replacement, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3532	PTAC, Com, E- Cool	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3533	PTAC, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.080	0.069	0.059	0.051	0.044	0.038	0.038	0.038	0.038
3534	PTAC, Com, E- Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156
3535	EFF Unitary AC, Com, E- Cool	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3536	EFF Unitary AC, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.081	0.071	0.061	0.053	0.047	0.041	0.043	0.046	0.048
3537	EFF Unitary AC, Com, E- Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156
3538	Minisplit Ductless AC, Com, E- Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3539	Minisplit Ductless AC, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3540	Minisplit Ductless AC, Com, E- Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3541	Computer Room Air Conditioner, Com, E- Cool	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3542	Computer Room Air Conditioner, Com, E- Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3543	Chiller Tuneup, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3544	Chiller Systems, Com, E- Cool	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3545	Chiller Systems, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.084	0.074	0.065	0.058	0.051	0.046	0.040	0.036	0.032
3546	Chiller Systems, Com, E- Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.260	0.208	0.156
3547	Com Room AC, Com, E- Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3548	Com Room AC, Com, E- Cool	C&I	C&I Retrofit	Large Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3549	Com Room AC, Com, E- Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3550	Com ES Dehumidifier, Com, E- Appl	C&I	C&I New Construction	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3551	Com ES Dehumidifier, Com, E- Appl	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3552	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Washer]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3553	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Washer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3554	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3555	Clothes Washer Elec WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3556	Clothes Washer Gas WH, Com, E- HWat [unit w/ elec dry- Water Heater]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3557	Clothes Washer Elec WH, Com, E- HWat [unit w/ elec dry- Water Heater]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3558	Clothes Washer Gas WH, Com, E- HWat [unit w/ elec dry- Washer]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3559	Clothes Washer Gas WH, Com, E- Appl [unit w/ elec dry- Washer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3560	Clothes Washer Gas WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3561	Clothes Washer Gas WH, Com, E- Appl [unit w/ elec dry- Dryer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3562	Clothes Washer Gas WH, Com, E- HWat [unit w/ elec dry- Water Heater]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3563	Clothes Washer Gas WH, Com, G- HWat [unit w/ elec dry- Water Heater]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
3564	Clothes Washer Gas WH, Com, E- Appl [unit w/ gas dry- Washer]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3565	Clothes Washer Gas WH, Com, E- Appl [unit w/ gas dry- Washer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3566	Clothes Washer Gas WH, Com, G- 0th [unit w/ gas dry- Dryer]	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3567	Clothes Washer Gas WH, Com, G- 0th [unit w/ gas dry- Dryer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
3568	Clothes Washer Gas WH, Com, G- HWat [unit w/ gas dry- Water Heater]	C&I	C&I New Construction	Large Retail	NC	Y	0.960	0.920	0.915	0.907	0.947	0.946	0.945	0.944	0.943	0.942
3569	Clothes Washer Gas WH, Com, G- HWat [unit w/ gas dry- Water Heater]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.000	1.012	1.019	1.027	1.035	1.042	1.050	1.058
3570	Ozone Laundry, Com, E- HWat	C&I	C&I New Construction	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3571	Ozone Laundry, Com, G- HWat	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
3572	Dishwasher, Com, E- Appl (Building w elec WH)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3573	Dishwasher, Com, E- Appl (Building w elec WH)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3574	Dishwasher, Com, E- HWat (Building w elec WH)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3575	Dishwasher, Com, E- HWat (Building w elec WH)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.000	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3576	Dishwasher, Com, E- Appl (Building w gas WH)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3577	Dishwasher, Com, E- Appl (Building w gas WH)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3578	Dishwasher, Com, G- HWat (Building w gas WH)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3579	Dishwasher, Com, G- HWat (Building w gas WH)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.0									

3640	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.005	1.012	1.019	1.027	1.035	1.042	1.050	1.058
3641	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3642	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3643	Motors, Com, E - Oth	C&I	C&I New Construction	Large Retail	NC	Y	0.960	0.960	0.967	0.969	0.974	0.980	0.985	0.990	0.994	0.998
3644	Motors, Com, E - Oth	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.081	0.071	0.061	0.054	0.044	0.041	0.040	0.046	0.049
3645	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.264	0.241
3646	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3647	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3648	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
3649	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.068
3650	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
3651	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
3652	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.650	0.624	0.621	0.619	0.617	0.616	0.614	0.612	0.611	0.609
3653	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
3654	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
3655	Deep Energy Retrofit, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
3656	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.006	0.006	0.006	0.005	0.004	0.004	0.004	0.004	0.004	0.004
3657	Integrated Building Design, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3658	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3659	Commissioning, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3660	RCX, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
3661	RCX, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
3662	RCX, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.063	0.063	0.063	0.063	0.064	0.064	0.065	0.065	0.066	0.066
3663	Data Center, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3664	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3665	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3666	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3667	Data Center, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3668	Data Center, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3669	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3670	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3671	Pneumatic to DDC, Com, G - TotG (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.100	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106
3672	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Large Retail	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3673	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Large Retail	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3674	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3675	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3676	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Large Retail	RET	Y	0.125	0.083	0.063	0.048	0.039	0.032	0.027	0.023	0.084	0.132
3677	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.750	0.629	0.505	0.401	0.296	0.189	0.080	0.484	0.895
3678	Computer Power Management, Com, E - Plug	C&I	C&I Retrofit	Large Retail	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3679	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Large Retail	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3680	Vending Machine Controls, Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Large Retail	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3681	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3682	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3683	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3684	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3685	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.103	0.103	0.104	0.105	0.106
3686	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3687	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3688	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
3689	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
3690	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3691	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
3692	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
3693	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3694	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
3695	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.271	0.232	0.191
3696	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3697	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.080	0.069	0.060	0.052	0.045	0.039	0.040	0.041	0.042
3698	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.271	0.231	0.191
3699	VFD on HVAC system, Com, E - Vent	C&I	C&I New Construction	Large Retail	NC	Y	0.100	0.080	0.070	0.060	0.052	0.045	0.039	0.040	0.041	0.042
3700	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Large Retail	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3701	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Large Retail	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3702	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.100	0.078	0.065	0.055	0.046	0.039	0.033	0.028	0.023	0.020
3703	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.211	0.110	0.007
3704	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3705	Window Film, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3706	Window Film, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3707	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3708	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3709	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3710	Windows, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3711	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3712	Steam Trap Motors, Com, G - Heat	C&I	C&I Retrofit	Large Retail	RET	Y	0.170	0.170	0.171	0.171	0.172	0.172	0.173	0.174	0.175	0.176
3713	Infrared Heater, Com, G - Heat	C&I	C&I New Construction	Large Retail	NC											

3775	LED Tube Repl. Com, E/G- Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.266	0.220	0.174
3776	Lin LED Fixture, Com, E- Intl. (No Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3777	Lin LED Fixture, Com, E- Intl. (No Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3778	Lin LED Fixture, Com, E- Intl. (No Heat)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3779	Lin LED Fixture, Com, E- Intl. (Electric Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3780	Lin LED Fixture, Com, E- Intl. (Electric Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3781	Lin LED Fixture, Com, E- Intl. (Electric Heat)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3782	Lin LED Fixture, Com, E/G- Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3783	Lin LED Fixture, Com, E/G- Intl.	C&I	C&I Retrofit	Warehouse	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3784	Lin LED Fixture, Com, E/G- Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3785	Repl Scrs. Com, E- Intl. (No Heat)	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3786	Repl Scrs. Com, E- Intl. (No Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3787	Repl Scrs. Com, E- Intl. (No Heat)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3788	Repl Scrs. Com, E- Intl. (Electric Heat)	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3789	Repl Scrs. Com, E- Intl. (Electric Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3790	Repl Scrs. Com, E- Intl. (Electric Heat)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3791	Repl Scrs. Com, E/G- Intl.	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3792	Repl Scrs. Com, E/G- Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3793	Repl Scrs. Com, E/G- Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.978	0.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3794	LED Hilo Bay, Com, E- Intl. (No Heat)	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3795	LED Hilo Bay, Com, E- Intl. (No Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
3796	LED Hilo Bay, Com, E- Intl. (No Heat)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3797	LED Hilo Bay, Com, E- Intl. (Electric Heat)	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3798	LED Hilo Bay, Com, E- Intl. (Electric Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
3799	LED Hilo Bay, Com, E- Intl. (Electric Heat)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.800	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3800	LED Hilo Bay, Com, E/G- Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
3801	LED Hilo Bay, Com, E/G- Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3802	LED Hilo Bay, Com, E/G- Intl.	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.288	0.265	0.242
3803	Exit Sign Refr.F. Com, E- Intl. (No Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3804	Exit Sign Refr.F. Com, E- Intl. (Electric Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3805	Exit Sign Refr.F. Com, E/G- Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3806	Ext Ltg Crls. Com, E- Intl. (No Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.131	0.132
3807	Ext Ltg Crls. Com, E- Intl. (Electric Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.131	0.132
3808	Int Ltg Crls. Com, E/G- Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.131	0.132
3809	Ext Ltg Dsgn. Com, E- Extl.	C&I	C&I New Construction	Warehouse	NC	Y	0.100	0.096	0.096	0.095	0.095	0.094	0.094	0.094	0.094	0.094
3810	Ext Ltg Crls. Com, E- Extl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.125	0.125	0.126	0.126	0.127	0.128	0.129	0.130	0.131	0.132
3811	Street Ltg. Com, E- Extl.	C&I	C&I New Construction	Warehouse	NC	Y	0.100	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3812	Street Ltg. Com, E- Extl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.081	0.081	0.071	0.061	0.054	0.047	0.041	0.044	0.046	0.049
3813	Street Ltg. Com, E- Extl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248
3814	Ext Area Ltg. Com, E- Extl.	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3815	Ext Area Ltg. Com, E- Extl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.082	0.073	0.065	0.058	0.051	0.046	0.052	0.058	0.064
3816	Ext Area Ltg. Com, E- Extl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.324	0.339	0.354
3817	Minisplit Ductless HP Com, E- Cool	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
3818	Minisplit Ductless HP Com, E- Cool	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.800	0.800	0.705	0.605	0.508	0.410	0.310	0.299	0.297	0.290
3819	Minisplit Ductless HP Com, E- Heat	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.079	0.067	0.057	0.048	0.041	0.035	0.029	0.025	0.022
3820	Minisplit Ductless HP Com, E- Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.107	0.004
3821	PTHP Com, E- Cool	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3822	PTHP Com, E- Cool	C&I	C&I Retrofit	Warehouse	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3823	PTHP Com, E- Cool	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3824	PTHP Com, E- Heat	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3825	PTHP Com, E- Heat	C&I	C&I Retrofit	Warehouse	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3826	PTHP Com, E- Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3827	Unitary HP Com, E- Cool	C&I	C&I New Construction	Warehouse	NC	N	0.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3828	Unitary HP Com, E- Cool	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062
3829	Unitary HP Com, E- Cool	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340
3830	Unitary HP Com, E- Heat	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3831	Unitary HP Com, E- Heat	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.082	0.073	0.064	0.057	0.051	0.045	0.051	0.057	0.062
3832	Unitary HP Com, E- Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.320	0.330	0.340
3833	Com GSPH Com, E- Cool	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026
3834	Com GSPH Com, E- Cool	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000
3835	Com GSPH Com, E- Heat	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.083	0.072	0.062	0.053	0.046	0.040	0.035	0.030	0.026
3836	Com GSPH Com, E- Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.209	0.105	0.000
3837	Cool Roof Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	N	0.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3838	Cool Roof Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3839	Cool Roof Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3840	Cool Roof Com, E- Heat (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3841	Cool Roof Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3842	Cool Roof Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3843	Cool Roof Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3844	Cool Roof Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3845	Optimized Unitary AC Sys. Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3846	Optimized Unitary AC Sys. Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3847	Optimized Unitary AC Sys. Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3848	Optimized Unitary AC Sys. Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3849	Controls for Unitary AC Com, E- Cool	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106

3910	Heat Pump Water Heater ,Com, E - HWat	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.720	0.634	0.545	0.457	0.372	0.285	0.197	0.108	0.016
3911	Gas Storage Water Heater ,Com, G - HWat	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3912	Gas Storage Water Heater ,Com, G - HWat	C&I	C&I Retrofit	Warehouse	RET	N	1.000	0.082	0.072	0.064	0.057	0.050	0.045	0.050	0.055	0.060
3913	Gas Storage Water Heater ,Com, G - HWat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
3914	Gas Tankless Water Heater ,Com, G - HWat	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3915	Gas Tankless Water Heater ,Com, G - HWat	C&I	C&I Retrofit	Warehouse	RET	N	1.000	0.082	0.071	0.062	0.054	0.047	0.041	0.036	0.031	0.027
3916	Gas Tankless Water Heater ,Com, G - HWat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.208	0.105	0.000
3917	Clothes Dryer ,Com, E - Appl	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3918	Clothes Dryer ,Com, E - Appl	C&I	C&I Retrofit	Warehouse	RET	Y	1.000	0.078	0.066	0.055	0.046	0.039	0.033	0.030	0.028	0.025
3919	Clothes Dryer ,Com, E - Appl	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.208	0.105	0.000
3920	Clothes Dryer ,Com, G - Oth	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.955	0.952	0.950	0.947	0.945	0.942	0.940	0.937
3921	Clothes Dryer ,Com, G - Oth	C&I	C&I Retrofit	Warehouse	RET	N	1.000	0.078	0.065	0.055	0.047	0.039	0.033	0.030	0.028	0.025
3922	Clothes Dryer ,Com, G - Oth	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.703	0.607	0.510	0.411	0.310	0.230	0.148	0.065
3923	ES Refrigerator and Freezer ,Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3924	ES Refrigerator and Freezer ,Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3925	Loading Dock Pt Seals ,Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	N	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3926	Loading Dock Pt Seals ,Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	N	1.000	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3927	ECM Comp Cond Fan Motor ,Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3928	ECM Comp Cond Fan Motor ,Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	N	1.000	0.084	0.077	0.070	0.063	0.058	0.053	0.065	0.076	0.086
3929	ECM Comp Cond Fan Motor ,Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.207	0.438	0.504
3930	Evap Fan Motor Replacement ,Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3931	Evap Fan Motor Replacement ,Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	1.000	0.081	0.071	0.062	0.054	0.047	0.041	0.044	0.047	0.050
3932	Evap Fan Motor Replacement ,Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	N	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.290	0.269	0.248
3933	Evap Fan Speed Controls ,Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3934	Evap Fan Speed Controls ,Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	1.000	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3935	Refrigerated Vending Machine ,Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3936	Refrigerated Vending Machine ,Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3937	Walk In Refrigeration ,Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	0.700	0.672	0.670	0.665	0.662	0.661	0.661	0.660	0.659	0.659
3938	Refrigeration Tune Up ,Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	0.143	0.143	0.144	0.144	0.145	0.146	0.148	0.149	0.150	0.152
3939	Walk In Cooler Retrofit ,Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	0.070	0.070	0.071	0.071	0.072	0.072	0.073	0.074	0.074	0.074
3940	Ovens ,Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3941	Ovens ,Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3942	Fryers ,Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3943	Fryers ,Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3944	Steamers ,Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3945	Steamers ,Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3946	Griddles ,Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3947	Griddles ,Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3948	Hot Food Holding Cabinet ,Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3949	Hot Food Holding Cabinet ,Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	1.000	1.007	1.009	1.016	1.025	1.034	1.043	1.053	1.063
3950	Motors ,Com, E - Oth	C&I	C&I New Construction	Warehouse	NC	Y	1.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3951	Motors ,Com, E - Oth	C&I	C&I Retrofit	Warehouse	RET	Y	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
3952	Motors ,Com, E - Oth	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.800	0.705	0.605	0.508	0.410	0.310	0.287	0.254	0.241
3953	ECM Circulators ,Com, E - Oth	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3954	VFDs on HVAC Pumps ,Com, E - Oth	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3955	EMS ,Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.650	0.624	0.622	0.617	0.615	0.614	0.613	0.613	0.612	0.612
3956	EMS ,Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
3957	EMS ,Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.614	0.614	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
3958	EMS ,Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
3959	EMS ,Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.650	0.624	0.621	0.619	0.617	0.616	0.614	0.612	0.611	0.609
3960	EMS ,Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.065	0.065	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069
3961	Deep Energy Retrofit ,Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
3962	Deep Energy Retrofit ,Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011
3963	Integrated Building Design ,Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.006	0.006	0.005	0.005	0.004	0.004	0.004	0.004	0.004
3964	Integrated Building Design ,Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.006	0.006	0.005	0.005	0.004	0.004	0.004	0.004	0.004
3965	Commissioning ,Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3966	Commissioning ,Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3967	RXC ,Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
3968	RXC ,Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.063	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066
3969	RXC ,Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.063	0.063	0.063	0.063	0.064	0.065	0.065	0.066	0.066	0.066
3970	Pneumatic to DDC ,Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.100	0.100	0.100	0.102	0.102	0.103	0.104	0.105	0.106
3971	Pneumatic to DDC ,Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3972	Pneumatic to DDC ,Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3973	Power Strip ,Com, E - Plug (Tier 1)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3974	Power Strip ,Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Warehouse	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3975	Power Strip ,Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3976	Power Strip ,Com, E - Plug (Tier 2)	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.960	0.957	0.949	0.946	0.945	0.944	0.943	0.942	0.941
3977	Power Strip ,Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Warehouse	RET	Y	0.125	0.083	0.063	0.048	0.039	0.032	0.027	0.023	0.084	0.132
3978	Power Strip ,Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	1.000	0.750	0.629	0.505	0.401	0.296	0.189	0.080	0.484	0.895
3979	Computer Power Management ,Com, E - Plug	C&I	C&I Retrofit	Warehouse	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3980	Vending Machine Controls ,Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Warehouse	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3981	Vending Machine Controls ,Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Warehouse	RET	Y	0.200	0.200	0.201	0.202	0.203	0.205	0.207	0.209	0.211	0.213
3982	Duct Sealing Regulated ,Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3983	Duct Sealing Regulated ,Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.104	0.105	0.106
3984	Duct Sealing Regulated ,Com, E - Cool (Building w Elec Heat)															

4045	Programmable TStat_Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4046	Programmable TStat_Com, E - Cool [Building w Gas Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4047	Programmable TStat_Com, G - Heat [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4048	Programmable TStat_Com, G - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4049	Indus Pro Drives_Ind, E - Driv	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4050	Indus Pro Motors and VSDs_Ind, E - Motr [Building w Elec Heat]	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4051	Indus Pro Air Compressor System_Ind, E - CAS	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4052	Indus Pro Ele Process Cooling_Ind, E - PrC	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4053	Indus Pro Ele Process Heat_Ind, E - PRH	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4054	Indus Pro Elec Other_Ind, E - Oth	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4055	Indus Pro NG Process Heat_Ind, G - PRH	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.104	0.105
4056	Indus Pro NG Process Cool_Ind, G - PrC	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.104	0.105
4057	Indus Pro NG Other_Ind, G - Oth	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.104	0.105
4058	Indus No_Ind, E - Intl [Electrically Heated Bldg]	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4059	Indus No_Ind, E/G - Intl [NG Heated Bldg]	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4060	Indus Non Pro Ele Space Cool_Ind, E - Cool	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4061	Indus Non Pro Ele Space Heat_Ind, E - Heat	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4062	Indus Non Pro Ele Other_Ind, E - Oth [Building w Elec Heat]	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.101	0.102	0.103	0.103	0.104	0.105	0.106	0.107
4063	Indus Non Pro NG Space Heat_Ind, G - Heat	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.104	0.105
4064	Indus Non Pro NG Other_Ind, G - Oth	C&I	C&I Retrofit	Industrial	RET	Y	0.100	0.100	0.100	0.101	0.102	0.102	0.103	0.104	0.104	0.105
4065	Indus SEM #1_Ind, E/G - TotE	C&I	C&I Retrofit	Industrial	RET	Y	0.125	0.125	0.126	0.127	0.128	0.129	0.130	0.131	0.132	0.134
4066	Indus SEM #2_Ind, E/G - TotE	C&I	C&I Retrofit	Industrial	RET	Y	0.000	0.125	0.126	0.127	0.128	0.129	0.130	0.131	0.132	0.134
4067	Indus SEM #3_Ind, E/G - TotE	C&I	C&I Retrofit	Industrial	RET	Y	0.000	0.000	0.126	0.127	0.128	0.129	0.130	0.131	0.132	0.134

Table H2. Maximum Achievable Scenario Penetrations
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#	Measure Name ID	Sector	Program	Segment	Market	Passes C-E	Screen	Year											
								2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
1	ES LED Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	ES LED Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	ES LED Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	ES LED Globe Lamp, Intl, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	ES LED Globe Lamp, Intl, Res, E - Intl, [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	ES LED Globe Lamp, Ext, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	ES LED PAR [Flood Lamp, Intl, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	ES LED PAR [Flood Lamp, Intl, Res, E - Intl, [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	ES LED PAR [Flood Lamp, Ext, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	ES LED Downlight Fixture, Intl, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	N		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	ES LED Downlight Fixture, Intl, Res, E - Intl, [Electric Heat]	Res	Residential Retrofit	Single Family	RET	N		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	ES LED Outdoor Fixture, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y		0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	ES Ceiling Fan w Lights, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y		0.005	0.009	0.013	0.018	0.023	0.029	0.035	0.037	0.037	0.038	0.038	0.038
14	ES Ceiling Fan w Lights, Res, E - Intl, [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y		0.005	0.009	0.013	0.018	0.023	0.029	0.035	0.037	0.037	0.038	0.038	0.038
15	ES Ceiling Fan, Res, E - Oth	Res	Residential Retrofit	Single Family	RET	N		0.005	0.009	0.013	0.018	0.023	0.029	0.035	0.037	0.037	0.038	0.038	0.038
16	Ext Lighting Controls, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y		0.028	0.034	0.040	0.046	0.052	0.059	0.065	0.066	0.066	0.066	0.067	0.067
17	LED Holiday Lights, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y		0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.012	0.013	0.013
18	LED Holiday Lights, Res, E - Intl, [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y		0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.012	0.013	0.013
19	LED Holiday Lights, Res, E - Extl.	Res	Residential Retrofit	Single Family	RET	Y		0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.005	0.006	0.006	0.006
20	LED Tube Replacement Lamps, Res, E/G - Intl.	Res	Residential Retrofit	Single Family	RET	Y		0.020	0.037	0.053	0.068	0.083	0.083	0.084	0.084	0.085	0.085	0.086	0.086
21	LED Tube Replacement Lamps, Res, E - Intl, [Electric Heat]	Res	Residential Retrofit	Single Family	RET	Y		0.020	0.037	0.053	0.068	0.083	0.083	0.084	0.084	0.085	0.085	0.086	0.086
22	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Single Family	NC	Y		0.360	0.424	0.537	0.640	0.710	0.766	0.765	0.764	0.764	0.764	0.765	0.765
23	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.360	0.441	0.565	0.680	0.763	0.831	0.838	0.845	0.854	0.854	0.864	0.864
24	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Single Family	NC	Y		0.360	0.424	0.537	0.640	0.710	0.766	0.765	0.764	0.764	0.765	0.765	0.765
25	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.360	0.441	0.565	0.680	0.763	0.831	0.838	0.845	0.854	0.854	0.864	0.864
26	ES Clothes Washer, Res, E - HWat [Elec DHW/Gas Dry, SF]	Res	Residential New Construction	Single Family	NC	Y		0.360	0.424	0.537	0.640	0.710	0.766	0.765	0.764	0.764	0.765	0.765	0.765
27	ES Clothes Washer, Res, E - HWat [Elec DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.360	0.441	0.565	0.680	0.763	0.831	0.838	0.845	0.854	0.854	0.864	0.864
28	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Elec Dry, SF]	Res	Residential New Construction	Single Family	NC	Y		0.360	0.424	0.537	0.640	0.710	0.766	0.765	0.764	0.764	0.765	0.765	0.765
29	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.360	0.441	0.565	0.680	0.763	0.831	0.838	0.845	0.854	0.854	0.864	0.864
30	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Gas Dry, SF]	Res	Residential New Construction	Single Family	NC	N		0.360	0.424	0.537	0.640	0.710	0.766	0.765	0.764	0.764	0.765	0.765	0.765
31	ES Clothes Washer, Res, E/G - Appl [Gas DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	N		0.360	0.441	0.565	0.680	0.763	0.831	0.838	0.845	0.854	0.854	0.864	0.864
32	ES Clothes Washer, Res, G - HWat [Gas DHW/Gas Dry, SF]	Res	Residential New Construction	Single Family	NC	N		0.360	0.424	0.542	0.650	0.723	0.782	0.782	0.783	0.784	0.784	0.785	0.785
33	ES Clothes Washer, Res, G - HWat [Gas DHW/Gas Dry, SF]	Res	Residential Equipment Replacement	Single Family	REPL	N		0.360	0.441	0.570	0.691	0.776	0.847	0.857	0.867	0.876	0.876	0.886	0.886
34	HER, Res, E - ToIE	Res	Residential Retrofit	Single Family	RET	Y		0.650	0.650	0.650	0.655	0.661	0.667	0.673	0.678	0.685	0.693	0.693	0.693
35	HER, Res, G - ToIG	Res	Residential Retrofit	Single Family	RET	Y		0.650	0.650	0.655	0.665	0.673	0.680	0.688	0.695	0.703	0.711	0.711	0.711
36	ES Dehumidifier, Res, E - Appl	Res	Residential New Construction	Single Family	NC	Y		0.240	0.254	0.286	0.339	0.409	0.478	0.506	0.520	0.526	0.529	0.529	0.529
37	ES Dehumidifier, Res, E - Appl	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.240	0.265	0.301	0.360	0.439	0.518	0.555	0.575	0.588	0.592	0.592	0.592
38	ES Dishwasher, Res, E - Appl [Elec Water Heating]	Res	Residential New Construction	Single Family	NC	Y		0.060	0.102	0.174	0.299	0.449	0.580	0.588	0.594	0.604	0.604	0.605	0.605
39	ES Dishwasher, Res, E - Appl [Elec Water Heating]	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.060	0.106	0.184	0.318	0.482	0.629	0.656	0.668	0.675	0.683	0.683	0.683
40	ES Dishwasher, Res, E - HWat [Elec Water Heating]	Res	Residential New Construction	Single Family	NC	Y		0.060	0.102	0.174	0.299	0.449	0.580	0.588	0.594	0.604	0.604	0.605	0.605
41	ES Dishwasher, Res, E - HWat [Elec Water Heating]	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.060	0.106	0.184	0.318	0.482	0.629	0.656	0.668	0.675	0.683	0.683	0.683
42	ES Dishwasher, Res, E/G - Appl [Gas Water Heating]	Res	Residential New Construction	Single Family	NC	Y		0.060	0.102	0.174	0.299	0.449	0.580	0.588	0.594	0.604	0.604	0.605	0.605
43	ES Dishwasher, Res, E/G - Appl [Gas Water Heating]	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.060	0.106	0.184	0.318	0.482	0.629	0.656	0.668	0.675	0.683	0.683	0.683
44	Tier 2 Power Strip, Res, E - Plug	Res	Residential Retrofit	Single Family	RET	Y		0.005	0.016	0.030	0.050	0.070	0.073	0.074	0.075	0.076	0.077	0.077	0.077
45	Variable Speed Pool Pump, Res, E - Oth	Res	Residential New Construction	Single Family	NC	Y		0.020	0.039	0.077	0.156	0.281	0.426	0.484	0.511	0.523	0.529	0.529	0.529
46	Variable Speed Pool Pump, Res, E - Oth	Res	Residential Retrofit	Single Family	RET	Y		0.020	0.031	0.040	0.046	0.046	0.050	0.059	0.061	0.063	0.064	0.066	0.066
47	Variable Speed Pool Pump, Res, E - Oth	Res	Residential Equipment Replacement	Single Family	REPL	Y		0.020	0.038	0.074	0.142	0.241	0.390	0.472	0.530	0.574	0.597	0.597	0.597
48	ECM Blower Motor, Res, E/G - Oth	Res	Residential Retrofit	Single Family	RET	Y		0.040	0.063	0.086	0.077	0.048	0.060	0.060	0.060	0.061	0.061	0.061	0.061
49	WH Jacket Insulation, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y		0.005	0.016	0.028	0.045	0.062	0.064	0.065	0.066	0.066	0.067	0.067	0.067
50	WH Drainpipe Heat Exchange, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y		0.007	0.010	0.013	0.017	0.021	0.026	0.030	0.034	0.037	0.037	0.037	0.037
51	WH Setback, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y		0.040	0.050	0.061	0.072	0.085	0.090	0.094	0.098	0.100	0.102	0.102	0.102
52	Faucet Aerator, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y		0.020	0.037	0.053	0.068	0.083	0.083	0.084	0.085	0.085	0.086	0.086	0.086
53	Low Flow Showerhead, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y		0.005	0.014	0.023	0.032	0.043	0.045	0.047	0.049	0.050	0.051	0.051	0.051
54	Thermo Restrict Valve, Res, E - HWat	Res	Residential Retrofit	Single Family	RET	Y		0.003	0.006	0.009	0.012	0.							

130	Boiler Reset Controls, Res, G - Heat	Res	Residential Retrofit	Single Family	RET	N	0.020	0.025	0.030	0.036	0.041	0.052	0.053	0.053	0.054	0.055
131	Duct Sealing, Res, E - Heat	Res	Residential Retrofit	Single Family	RET	Y	0.020	0.028	0.041	0.060	0.066	0.072	0.072	0.073	0.074	0.075
132	Duct Sealing, Res, E - Cool	Res	Residential Retrofit	Single Family	RET	Y	0.020	0.028	0.041	0.060	0.066	0.072	0.072	0.073	0.074	0.075
133	Duct Sealing, Res, E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.020	0.028	0.041	0.060	0.066	0.072	0.072	0.073	0.074	0.075
134	Air Sealing, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.042	0.047	0.056	0.070	0.081	0.073	0.063	0.055	0.055	0.055
135	Attic Insulation, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.042	0.047	0.056	0.070	0.081	0.073	0.063	0.053	0.054	0.055
136	Wall Insulation, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	N	0.015	0.023	0.030	0.038	0.047	0.047	0.048	0.048	0.049	0.049
137	Smart Thermostat, Res, G/E - Heat	Res	Residential New Construction	Single Family	NC	Y	0.100	0.115	0.144	0.173	0.231	0.338	0.435	0.561	0.697	0.824
138	Smart Thermostat, Res, G/E - Heat	Res	Residential Retrofit	Single Family	RET	Y	0.005	0.016	0.033	0.060	0.088	0.093	0.095	0.096	0.097	0.098
139	Smart Thermostat, Res, E - Heat	Res	Residential New Construction	Single Family	NC	N	0.100	0.115	0.143	0.171	0.227	0.331	0.425	0.547	0.679	0.803
140	Smart Thermostat, Res, E - Heat	Res	Residential Retrofit	Single Family	RET	Y	0.005	0.016	0.033	0.059	0.087	0.091	0.093	0.094	0.095	0.096
141	Smart Thermostat, Res, E - Cool	Res	Residential New Construction	Single Family	NC	Y	0.100	0.115	0.143	0.171	0.227	0.331	0.425	0.547	0.679	0.803
142	Smart Thermostat, Res, E - Cool	Res	Residential Retrofit	Single Family	RET	Y	0.005	0.016	0.033	0.059	0.087	0.091	0.093	0.094	0.095	0.096
143	Storage Gas Water Heater, Res, G - HWat	Res	Residential New Construction	Single Family	NC	Y	0.560	0.540	0.533	0.520	0.505	0.501	0.504	0.509	0.516	0.523
144	Storage Gas Water Heater, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	N	0.000	0.000	0.000	0.001	0.002	0.005	0.008	0.011	0.013	0.014
145	Storage Gas Water Heater, Res, G - HWat	Res	Residential Equipment Replacement	Single Family	REPL	Y	0.560	0.562	0.561	0.551	0.540	0.543	0.552	0.563	0.577	0.591
146	Tankless Gas Water Heater, Res, G - HWat	Res	Residential New Construction	Single Family	NC	Y	0.000	0.000	0.001	0.002	0.004	0.009	0.014	0.020	0.024	0.027
147	Tankless Gas Water Heater, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	N	0.000	0.000	0.001	0.002	0.004	0.009	0.014	0.020	0.024	0.027
148	Tankless Gas Water Heater, Res, G - HWat	Res	Residential Equipment Replacement	Single Family	REPL	N	0.060	0.139	0.219	0.298	0.294	0.287	0.276	0.265	0.254	0.244
149	Faucet Aerator, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	Y	0.014	0.026	0.038	0.048	0.059	0.059	0.060	0.061	0.061	0.062
150	Low Flow Showerhead, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	Y	0.004	0.010	0.016	0.023	0.030	0.032	0.034	0.035	0.036	0.037
151	Therm Restrict Valve, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	N	0.002	0.004	0.006	0.009	0.011	0.012	0.013	0.013	0.014	0.014
152	WN Drainpipe Heat Exch, Gas, Res, G - HWat [SF]	Res	Residential New Construction	Single Family	NC	N	0.004	0.005	0.007	0.009	0.012	0.015	0.018	0.021	0.024	0.027
153	Water Heater Setback, Gas DHW, Res, G - HWat [SF]	Res	Residential Retrofit	Single Family	RET	Y	0.028	0.035	0.043	0.051	0.061	0.064	0.067	0.070	0.072	0.074
154	Pipe Insulation, Gas DHW, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	Y	0.011	0.018	0.030	0.043	0.054	0.055	0.056	0.056	0.057	0.057
155	Solar DHW, Res, G - HWat	Res	Residential New Construction	Single Family	NC	N	0.042	0.094	0.146	0.197	0.193	0.188	0.182	0.177	0.172	0.170
156	Solar DHW, Res, G - HWat	Res	Residential Retrofit	Single Family	RET	N	0.000	0.000	0.000	0.001	0.003	0.006	0.010	0.014	0.017	0.019
157	Solar DHW, Res, G - HWat	Res	Residential Equipment Replacement	Single Family	REPL	N	0.042	0.098	0.153	0.209	0.206	0.201	0.193	0.185	0.178	0.171
158	ES LED, Res, E/G - Intl	Res	Residential New Construction	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	ES LED, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	ES LED, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161	ES LED, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162	ES LED, Res, E - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163	ES LED Globe Lamp, Int, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164	ES LED Globe Lamp, Int, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	ES LED Globe Lamp, MF Com, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166	ES LED Globe Lamp, MF Com, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167	ES LED Globe Lamp, Ext, Res, E - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	ES LED PAR Flood Lamp, Int, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169	ES LED PAR Flood Lamp, Int, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	ES LED PAR Flood Lamp, MF Com, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	ES LED PAR Flood Lamp, MF Com, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172	ES LED PAR Flood Lamp, Ext, Res, E - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173	ES LED Downlight Fixture, Int, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	N	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	ES LED Downlight Fixture, Int, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	N	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	ES LED Downlight Fixture, MF, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	N	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176	ES LED Downlight Fixture, MF, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	N	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	ES LED Outdoor Fixture, Int, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	N	0.105	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178	ES Ceiling Fan w Lights, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	N	0.004	0.006	0.009	0.013	0.016	0.020	0.025	0.026	0.026	0.027
179	ES Ceiling Fan w Lights, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	N	0.004	0.006	0.009	0.013	0.016	0.020	0.025	0.026	0.026	0.027
180	ES Ceiling Fan, Res, E - Oth	Res	Residential Retrofit	Multi-Family	RET	N	0.004	0.006	0.009	0.013	0.016	0.020	0.025	0.026	0.026	0.027
181	Ext Lighting Controls, Res, E - Intl	Res	Residential Retrofit	Multi-Family	RET	N	0.020	0.024	0.028	0.032	0.037	0.041	0.046	0.046	0.046	0.047
182	LED Holiday Lights, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.009
183	LED Holiday Lights, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.009
184	LED Holiday Lights, Res, E - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.006
185	LED Tube Replacement Lamps, Res, E/G - Intl	Res	Residential Retrofit	Multi-Family	RET	Y	0.014	0.026	0.037	0.048	0.058	0.058	0.059	0.059	0.060	0.060
186	LED Tube Replacement Lamps, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	Multi-Family	RET	Y	0.014	0.026	0.037	0.048	0.058	0.058	0.059	0.059	0.060	0.060
187	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Multi-Family	NC	Y	0.252	0.297	0.376	0.448	0.497	0.537	0.536	0.535	0.535	0.536
188	ES Clothes Washer, Res, E - Appl [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.252	0.309	0.395	0.476	0.534	0.582	0.587	0.592	0.598	0.605
189	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Multi-Family	NC	Y	0.252	0.297	0.376	0.448	0.497	0.537	0.536	0.535	0.535	0.536
190	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.252	0.309	0.395	0.476	0.534	0.582	0.587	0.592	0.598	0.605
191	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Multi-Family	NC	Y	0.252	0.297	0.376	0.448	0.497	0.537	0.536	0.535	0.535	0.536
192	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.252	0.309	0.395	0.476	0.534	0.582	0.587	0.592	0.598	0.605
193	ES Clothes Washer, Res, E/G - Appl [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Multi-Family	NC	Y	0.252	0.297	0.376	0.448	0.497	0.537	0.536	0.535	0.535	0.536
194	ES Clothes Washer, Res, E/G - Appl [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.252	0.309	0.395	0.476	0.534	0.582	0.587	0.592	0.598	0.605
195	ES Clothes Washer, Res, E/G - Appl [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Multi-Family	NC	N	0.252	0.297	0.376	0.448	0.497	0.537	0.536	0.535	0.535	0.536
196	ES Clothes Washer, Res, E/G - Appl [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.252	0.309	0.395	0.476	0.534	0.582	0.587	0.592	0.598	0.605
197	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential New Construction	Multi-Family	NC	Y	0.252	0.297	0.376	0.448	0.497	0.537	0.536	0.535	0.535	0.536
198	ES Clothes Washer, Res, E - HWat [Elec DHW/Elec Dry, SF]	Res	Residential Equipment Replacement	Multi-Family	REPL	N	0.252	0.309	0.399	0.483	0.543	0.593	0.600	0.607	0.613	0.620
199	ES Clothes Washer MF, Res, E - Appl [Elec DHW/Elec Dry, MF]	Res	Residential New Construction	Multi-Family	NC	Y	0.245	0.273	0.313	0.362	0.413	0.420	0.422	0.423	0.423	0.423
200	ES Clothes Washer MF, Res, E - Appl [Elec DHW/Elec Dry, MF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.245	0.284	0.329	0.385	0.444	0.456	0.463	0.468	0.472	0.478
201	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Elec Dry, MF]	Res	Residential New Construction	Multi-Family	NC	Y	0.245	0.273	0.313	0.362	0.413	0.420	0.422	0.423	0.423	0.423
202	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Elec Dry, MF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.245	0.284	0.329	0.385	0.444	0.456	0.463	0.468	0.472	0.478
203	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Elec Dry, MF]	Res	Residential New Construction	Multi-Family	NC	Y	0.245	0.273	0.313	0.362	0.413	0.420	0.422	0.423	0.423	0.423
204	ES Clothes Washer MF, Res, E - HWat [Elec DHW/Elec Dry, MF]	Res	Residential Equipment Replacement	Multi-Family	REPL	Y	0.245	0.284	0.329							

265	ASHP_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.004	0.005	0.007	0.006	0.005	0.005	0.004	0.004	0.000
266	ASHP_Res, E - Cool	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.140	0.180	0.234	0.314	0.342	0.369	0.335	0.321	0.295
267	ASHP_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264
268	ASHP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.004	0.005	0.007	0.006	0.005	0.005	0.004	0.004	0.000
269	ASHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.140	0.180	0.234	0.314	0.342	0.369	0.335	0.321	0.295
270	ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264
271	ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.140	0.182	0.239	0.325	0.356	0.388	0.355	0.321	0.295
272	ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264
273	ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.140	0.182	0.239	0.325	0.356	0.388	0.355	0.321	0.295
274	QI ASHP_Res, E - Cool	Res	Residential New Construction	Multifamily	NC	Y	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199
275	QI ASHP_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.011	0.014	0.017	0.016	0.013	0.011	0.010	0.009	0.009
276	QI ASHP_Res, E - Cool	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.021	0.028	0.036	0.048	0.066	0.090	0.120	0.172	0.223
277	QI ASHP_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199
278	QI ASHP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.011	0.014	0.017	0.017	0.016	0.013	0.011	0.010	0.009
279	QI ASHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.021	0.028	0.036	0.048	0.066	0.090	0.120	0.172	0.223
280	QI ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199
281	QI ASHP_Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.021	0.029	0.038	0.053	0.074	0.104	0.141	0.182	0.223
282	QI ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199
283	QI ASHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.021	0.029	0.038	0.053	0.074	0.104	0.141	0.182	0.223
284	DMSHP_Res, E - Cool	Res	Residential New Construction	Multifamily	NC	Y	0.028	0.037	0.048	0.063	0.083	0.111	0.144	0.180	0.215
285	DMSHP_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.014	0.021	0.027	0.031	0.034	0.037	0.039	0.036	0.033
286	DMSHP_Res, E - Cool	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.028	0.036	0.046	0.057	0.072	0.089	0.105	0.118	0.128
287	DMSHP_Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	Multifamily	NC	Y	0.028	0.037	0.048	0.063	0.083	0.111	0.144	0.180	0.215
288	DMSHP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.014	0.021	0.027	0.031	0.034	0.037	0.039	0.036	0.033
289	DMSHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.028	0.036	0.046	0.057	0.072	0.089	0.105	0.118	0.128
290	GSHP_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	N	0.004	0.004	0.004	0.005	0.006	0.009	0.012	0.017	0.022
291	GSHP_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.000	0.000	0.000	0.000	0.001	0.003	0.004	0.006	0.008
292	GSHP_Res, E - Heat	Res	Residential Equipment Replacement	Multifamily	REPL	N	0.004	0.004	0.004	0.005	0.007	0.009	0.013	0.018	0.024
293	Pipe Insulation_Res, E - HWat	Res	Residential New Construction	Multifamily	NC	Y	0.004	0.011	0.020	0.031	0.044	0.065	0.096	0.144	0.215
294	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	Y	0.071	0.058	0.051	0.043	0.022	0.023	0.023	0.023	0.023
295	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004
296	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.071	0.060	0.053	0.044	0.023	0.024	0.024	0.024	0.025
297	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	N	0.286	0.306	0.339	0.362	0.417	0.431	0.437	0.449	0.455
298	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.007	0.007	0.008	0.009	0.010	0.012	0.013	0.014	0.015
299	HE Furnace_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	N	0.286	0.312	0.344	0.367	0.419	0.427	0.427	0.430	0.438
300	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	Y	0.143	0.131	0.123	0.107	0.089	0.069	0.046	0.046	0.047
301	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
302	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.143	0.136	0.129	0.113	0.095	0.074	0.050	0.050	0.051
303	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	Multifamily	NC	Y	0.314	0.340	0.375	0.410	0.451	0.488	0.511	0.512	0.513
304	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	Multifamily	RET	N	0.008	0.009	0.010	0.010	0.011	0.012	0.013	0.014	0.015
305	HE Boiler_Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.314	0.345	0.378	0.411	0.447	0.478	0.492	0.482	0.470
306	Furnace Tune Up_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.056	0.072	0.090	0.116	0.136	0.132	0.111	0.090	0.091
307	Boiler Tune Up_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.056	0.072	0.090	0.112	0.136	0.132	0.111	0.090	0.091
308	Boiler Reset Controls_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.014	0.018	0.021	0.025	0.029	0.037	0.037	0.037	0.038
309	Air Sealing, Gas Heating_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.029	0.033	0.039	0.049	0.057	0.051	0.044	0.037	0.038
310	Pipe Insulation, Space Heat_Res, G - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.011	0.018	0.030	0.043	0.054	0.055	0.056	0.056	0.057
311	Attic Insulation, Gas Heating_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.029	0.033	0.039	0.049	0.057	0.051	0.044	0.037	0.038
312	Wall Insulation, Gas Heating_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	N	0.011	0.016	0.027	0.037	0.047	0.051	0.051	0.051	0.051
313	Smart Thermostat_Res, G/E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.070	0.081	0.101	0.121	0.162	0.236	0.304	0.393	0.488
314	Smart Thermostat_Res, G/E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.004	0.011	0.023	0.042	0.062	0.065	0.067	0.067	0.068
315	Smart Thermostat_Res, E - Heat	Res	Residential New Construction	Multifamily	NC	Y	0.070	0.081	0.100	0.120	0.159	0.232	0.298	0.383	0.476
316	Smart Thermostat_Res, E - Heat	Res	Residential Retrofit	Multifamily	RET	Y	0.004	0.011	0.023	0.041	0.061	0.064	0.065	0.066	0.066
317	Smart Thermostat_Res, E - Cool	Res	Residential New Construction	Multifamily	NC	Y	0.070	0.081	0.100	0.120	0.159	0.232	0.298	0.383	0.476
318	Smart Thermostat_Res, E - Cool	Res	Residential Retrofit	Multifamily	RET	Y	0.004	0.011	0.023	0.041	0.061	0.064	0.065	0.066	0.066
319	Demand Control Resp Pump_Res, G/E - HWat	Res	Residential Retrofit	Multifamily	RET	Y	0.005	0.005	0.005	0.007	0.009	0.011	0.013	0.013	0.018
320	Storage Gas Water Heater_Res, G - HWat	Res	Residential New Construction	Multifamily	NC	Y	0.392	0.378	0.373	0.364	0.354	0.351	0.353	0.356	0.361
321	Storage Gas Water Heater_Res, G - HWat	Res	Residential Retrofit	Multifamily	RET	N	0.000	0.000	0.000	0.001	0.002	0.003	0.005	0.007	0.009
322	Storage Gas Water Heater_Res, G - HWat	Res	Residential Equipment Replacement	Multifamily	REPL	Y	0.392	0.394	0.393	0.386	0.378	0.380	0.386	0.394	0.404
323	Tankless Gas Water Heater_Res, G - HWat	Res	Residential New Construction	Multifamily	NC	N	0.042	0.094	0.146	0.197	0.193	0.188	0.182	0.177	0.172
324	Tankless Gas Water Heater_Res, G - HWat	Res	Residential Retrofit	Multifamily	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
325	Tankless Gas Water Heater_Res, G - HWat	Res	Residential Equipment Replacement	Multifamily	REPL	N	0.060	0.139	0.219	0.289	0.298	0.287	0.275	0.252	0.244
326	Faucet Aerator, Gas DHW_Res, G - HWat [MF]	Res	Residential Retrofit	Multifamily	RET	Y	0.020	0.037	0.054	0.069	0.085	0.085	0.086	0.087	0.088
327	Low Flow Showerhead, Gas DHW_Res, G - HWat [MF]	Res	Residential Retrofit	Multifamily	RET	Y	0.005	0.014	0.023	0.033	0.043	0.046	0.048	0.050	0.052
328	Therm Restrict Valve, Gas DHW_Res, G - HWat [MF]	Res	Residential Retrofit	Multifamily	RET	Y	0.003	0.006	0.009	0.012	0.016	0.017	0.018	0.019	0.020
329	Water Heater Setback, Gas DHW_Res, G - HWat [MF]	Res	Residential Retrofit	Multifamily	RET	Y	0.040	0.050	0.061	0.073	0.087	0.091	0.096	0.100	0.103
330	Solar DHW_Res, G - HWat	Res	Residential New Construction	Multifamily	NC	N	0.060	0.134	0.208	0.281	0.276	0.269	0.260	0.252	0.246
331	Solar DHW_Res, G - HWat	Res	Residential Retrofit	Multifamily	RET	N	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
332	Solar DHW_Res, G - HWat	Res	Residential Equipment Replacement	Multifamily	REPL	N	0.060	0.139	0.219	0.298	0.294	0.287	0.276	0.265	0.254
333	ES LED_Res, E/G - Intl	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
334	ES LED_Res, E - Intl [Electric Heat]	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
335	ES LED_Res, E - Extl	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
336	ES LED Globe Lamp_Int, Res, E/G - Intl	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
337	ES LED Globe Lamp_Int, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
338	ES LED Globe Lamp_Ext, Res, E - Extl	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
339	ES LED PAR[Flood Lamp_Int, Res, E/G - Intl	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
340	ES LED PAR[Flood Lamp_Int, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
341	ES LED PAR[Flood Lamp_Ext, Res, E - Extl	Res	Residential Retrofit	LI Single Family	RET	Y	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
342	ES LED Downlight Fixture_Int, Res, E/G - Intl	Res	Residential Retrofit	LI Single Family	RET	N	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
343	ES LED Downlight Fixture_Int, Res, E - Intl [Electric Heat]	Res	Residential Retrofit	LI Single Family	RET	N	0.150	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000
344	ES LED Outdoor Fixture_Res, E - Extl	Res	Residential Retrofit	LI Single Family	RET	Y	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
345	ES Ceiling Fan w Lights_Res, E/G - Intl	Res													

400	Attic Insulation, Res, E - Cool [Elec Heating]	Res	Residential Retrofit	LI Single Family	RET	N	0.020	0.025	0.030	0.035	0.041	0.051	0.052	0.052	0.053	0.053
401	Wall Insulation, Res, E - Heat [Elec Heating]	Res	Residential Retrofit	LI Single Family	RET	Y	0.015	0.023	0.030	0.038	0.046	0.046	0.047	0.047	0.047	0.048
402	Wall Insulation, Res, E - Cool [Elec Heating]	Res	Residential Retrofit	LI Single Family	RET	Y	0.015	0.023	0.030	0.038	0.046	0.046	0.047	0.047	0.047	0.048
403	Air Sealing, Res, E - Cool [Elec Heating]	Res	Residential Retrofit	LI Single Family	RET	Y	0.015	0.023	0.030	0.038	0.046	0.046	0.047	0.047	0.047	0.048
404	ES Fridge and Freezer, Res, E - Refr	Res	Residential New Construction	LI Single Family	NC	Y	0.420	0.475	0.582	0.673	0.727	0.766	0.765	0.764	0.765	0.765
405	ES Fridge and Freezer, Res, E - Refr	Res	Residential Retrofit	LI Single Family	RET	N	0.000	0.000	0.001	0.002	0.005	0.010	0.019	0.030	0.037	0.043
406	ES Fridge and Freezer, Res, E - Refr	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.420	0.495	0.611	0.712	0.773	0.812	0.838	0.845	0.854	0.864
407	Fridge Freezer Removal, Res, E - Refr	Res	Residential Retrofit	LI Single Family	RET	Y	0.020	0.025	0.025	0.025	0.025	0.021	0.010	0.010	0.011	0.000
408	Room AC, Res, E - Cool	Res	Residential New Construction	LI Single Family	NC	Y	0.270	0.378	0.573	0.708	0.755	0.766	0.765	0.764	0.764	0.773
409	Room AC, Res, E - Cool	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.270	0.394	0.602	0.753	0.810	0.831	0.838	0.845	0.854	0.864
410	CAC Tune Up, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	N	0.000	0.005	0.000	0.005	0.011	0.046	0.052	0.052	0.053	0.053
411	CAC Recommissioning, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	N	0.030	0.035	0.040	0.043	0.045	0.047	0.049	0.051	0.055	0.060
412	ASHP Tune Up, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	N	0.040	0.055	0.069	0.080	0.086	0.082	0.072	0.063	0.058	0.058
413	ASHP Tune Up, Res, E - Heat	Res	Residential Retrofit	LI Single Family	RET	N	0.040	0.055	0.069	0.080	0.086	0.082	0.072	0.063	0.058	0.058
414	CAC, Res, E - Cool	Res	Residential New Construction	LI Single Family	NC	N	0.200	0.249	0.325	0.437	0.474	0.511	0.463	0.415	0.377	0.331
415	CAC, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	N	0.005	0.007	0.009	0.009	0.007	0.007	0.006	0.005	0.005	0.000
416	CAC, Res, E - Cool	Res	Residential Equipment Replacement	LI Single Family	REPL	N	0.200	0.257	0.334	0.449	0.488	0.528	0.479	0.459	0.422	0.373
417	QI CAC, Res, E - Cool	Res	Residential New Construction	LI Single Family	NC	N	0.030	0.039	0.052	0.071	0.098	0.136	0.184	0.235	0.285	0.331
418	QI CAC, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	N	0.032	0.031	0.028	0.023	0.019	0.017	0.016	0.017	0.017	0.017
419	QI CAC, Res, E - Cool	Res	Residential Equipment Replacement	LI Single Family	REPL	N	0.030	0.038	0.050	0.067	0.092	0.126	0.167	0.258	0.318	0.373
420	ASHP, Res, E - Cool	Res	Residential New Construction	LI Single Family	NC	Y	0.200	0.249	0.325	0.437	0.474	0.511	0.463	0.415	0.377	0.331
421	ASHP, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	Y	0.005	0.007	0.009	0.009	0.007	0.007	0.006	0.005	0.005	0.000
422	ASHP, Res, E - Cool	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.200	0.257	0.334	0.449	0.488	0.528	0.479	0.459	0.422	0.373
423	ASHP, Res, E - Heat	Res	Residential New Construction	LI Single Family	NC	Y	0.200	0.249	0.325	0.437	0.474	0.511	0.463	0.415	0.377	0.331
424	ASHP, Res, E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.005	0.007	0.009	0.009	0.007	0.007	0.006	0.005	0.005	0.000
425	ASHP, Res, E - Heat	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.200	0.257	0.334	0.449	0.488	0.528	0.479	0.459	0.422	0.373
426	ASHP, Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	LI Single Family	NC	Y	0.200	0.249	0.325	0.437	0.474	0.511	0.463	0.415	0.377	0.331
427	ASHP, Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.200	0.260	0.342	0.464	0.508	0.554	0.507	0.459	0.422	0.373
428	ASHP, Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	LI Single Family	NC	Y	0.200	0.249	0.325	0.437	0.474	0.511	0.463	0.415	0.377	0.331
429	ASHP, Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.200	0.260	0.342	0.464	0.508	0.554	0.507	0.459	0.422	0.373
430	QI ASHP, Res, E - Cool	Res	Residential New Construction	LI Single Family	NC	Y	0.030	0.039	0.052	0.071	0.098	0.136	0.184	0.235	0.285	0.331
431	QI ASHP, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	Y	0.016	0.020	0.024	0.025	0.023	0.019	0.016	0.014	0.013	0.013
432	QI ASHP, Res, E - Cool	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.030	0.039	0.052	0.069	0.094	0.129	0.171	0.246	0.318	0.373
433	QI ASHP, Res, E - Heat	Res	Residential New Construction	LI Single Family	NC	Y	0.030	0.039	0.052	0.071	0.098	0.136	0.184	0.235	0.285	0.331
434	QI ASHP, Res, E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.016	0.020	0.024	0.025	0.023	0.019	0.016	0.014	0.013	0.013
435	QI ASHP, Res, E - Heat	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.030	0.039	0.052	0.069	0.094	0.129	0.171	0.246	0.318	0.373
436	QI ASHP, Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	LI Single Family	NC	Y	0.030	0.039	0.052	0.071	0.098	0.136	0.184	0.235	0.285	0.331
437	QI ASHP, Res, E - Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.030	0.041	0.055	0.076	0.106	0.148	0.201	0.260	0.318	0.373
438	QI ASHP, Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	LI Single Family	NC	Y	0.030	0.039	0.052	0.071	0.098	0.136	0.184	0.235	0.285	0.331
439	QI ASHP, Res, E - Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.030	0.041	0.055	0.076	0.106	0.148	0.201	0.260	0.318	0.373
440	DMSPH, Res, E - Cool	Res	Residential New Construction	LI Single Family	NC	Y	0.040	0.052	0.068	0.090	0.119	0.158	0.205	0.257	0.308	0.354
441	DMSPH, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	Y	0.040	0.050	0.065	0.087	0.109	0.142	0.185	0.231	0.284	0.345
442	DMSPH, Res, E - Cool	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.040	0.052	0.065	0.082	0.102	0.126	0.150	0.169	0.183	0.188
443	DMSPH, Res, E - Heat	Res	Residential New Construction	LI Single Family	NC	Y	0.040	0.052	0.068	0.090	0.119	0.158	0.205	0.257	0.308	0.354
444	DMSPH, Res, E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.020	0.030	0.039	0.045	0.049	0.052	0.055	0.051	0.048	0.045
445	DMSPH, Res, E - Heat	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.040	0.052	0.065	0.082	0.102	0.126	0.150	0.169	0.183	0.188
446	Pipe Insulation, Res, E - HWat	Res	Residential Retrofit	LI Single Family	RET	Y	0.005	0.016	0.028	0.045	0.062	0.084	0.065	0.066	0.066	0.067
447	Furnace Tune Up, Res, G/E - Heat [90 to 94 AFUE]	Res	Residential New Construction	LI Single Family	NC	Y	0.102	0.083	0.076	0.061	0.051	0.042	0.033	0.031	0.034	0.033
448	Furnace Tune Up, Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	LI Single Family	RET	N	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006
449	Furnace Tune Up, Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.102	0.086	0.076	0.063	0.033	0.034	0.035	0.035	0.035	0.035
450	Furnace Tune Up, Res, G - Heat [94 AFUE]	Res	Residential New Construction	LI Single Family	NC	Y	0.408	0.437	0.484	0.518	0.596	0.615	0.624	0.641	0.650	0.659
451	Furnace Tune Up, Res, G - Heat [94 AFUE]	Res	Residential Retrofit	LI Single Family	RET	N	0.010	0.011	0.012	0.013	0.014	0.017	0.019	0.021	0.022	0.022
452	Furnace Tune Up, Res, G - Heat [94 AFUE]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.408	0.446	0.492	0.524	0.599	0.617	0.610	0.614	0.607	0.598
453	HE Boiler, Res, G - Heat [90 to 94 AFUE]	Res	Residential New Construction	LI Single Family	NC	Y	0.204	0.187	0.176	0.162	0.127	0.098	0.066	0.066	0.066	0.066
454	HE Boiler, Res, G - Heat [90 to 94 AFUE]	Res	Residential Retrofit	LI Single Family	RET	N	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
455	HE Boiler, Res, G - Heat [90 to 94 AFUE]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.204	0.195	0.184	0.161	0.136	0.106	0.071	0.072	0.073	0.073
456	HE Boiler, Res, G - Heat [94 AFUE]	Res	Residential New Construction	LI Single Family	NC	Y	0.449	0.486	0.535	0.586	0.644	0.697	0.731	0.731	0.732	0.733
457	HE Boiler, Res, G - Heat [94 AFUE]	Res	Residential Retrofit	LI Single Family	RET	Y	0.012	0.013	0.014	0.015	0.016	0.018	0.019	0.020	0.021	0.021
458	HE Boiler, Res, G - Heat [94 AFUE]	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.449	0.493	0.540	0.588	0.639	0.682	0.703	0.689	0.672	0.653
459	Furnace Tune Up, Res, G - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.060	0.034	0.028	0.021	0.019	0.018	0.019	0.028	0.030	0.031
460	Boiler Tune Up, Res, E - Heat	Res	Residential New Construction	LI Single Family	NC	Y	0.080	0.102	0.119	0.135	0.158	0.189	0.215	0.219	0.219	0.219
461	Electronic Ignition Hearth, Res, G - Heat	Res	Residential Equipment Replacement	LI Single Family	REPL	Y	0.490	0.556	0.658	0.753	0.828	0.837	0.846	0.856	0.865	0.875
462	Boiler Reset Controls, Res, G - Heat	Res	Residential Retrofit	LI Single Family	RET	N	0.020	0.025	0.030	0.036	0.041	0.052	0.053	0.053	0.054	0.055
463	Duct Sealing, Res, E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.020	0.028	0.041	0.060	0.066	0.072	0.072	0.073	0.074	0.075
464	Duct Sealing, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	Y	0.020	0.028	0.041	0.060	0.066	0.072	0.072	0.073	0.074	0.075
465	Duct Sealing, Res, G/E - Heat	Res	Residential Retrofit	LI Single Family	RET	N	0.028	0.048	0.061	0.061	0.067	0.073	0.074	0.075	0.076	0.077
466	Air Sealing, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.042	0.047	0.056	0.070	0.081	0.073	0.063	0.054	0.054	0.055
467	Attic Insulation, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.042	0.047	0.056	0.070	0.081	0.073	0.063	0.054	0.054	0.055
468	Wall Insulation, Gas Heating, Res, G/E - Heat	Res	Residential Retrofit	LI Single Family	RET	N	0.015	0.023	0.030	0.038	0.047	0.047	0.048	0.048	0.049	0.049
469	Smart Thermostat, Res, G/E - Heat	Res	Residential New Construction	LI Single Family	NC	Y	0.100	0.115	0.144	0.173	0.231	0.338	0.435	0.561	0.697	0.824
470	Smart Thermostat, Res, G/E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.005	0.016	0.033	0.060	0.088	0.093	0.095	0.096	0.097	0.098
471	Smart Thermostat, Res, E - Heat	Res	Residential New Construction	LI Single Family	NC	Y	0.100	0.115	0.143	0.171	0.227	0.331	0.425	0.547	0.679	0.803
472	Smart Thermostat, Res, E - Heat	Res	Residential Retrofit	LI Single Family	RET	Y	0.005	0.016	0.033	0.060	0.088	0.093	0.095	0.096	0.097	0.098
473	Smart Thermostat, Res, E - Cool	Res	Residential New Construction	LI Single Family	NC	Y	0.100	0.115	0.143	0.171	0.227	0.331	0.425	0.547	0.679	0.803
474	Smart Thermostat, Res, E - Cool	Res	Residential Retrofit	LI Single Family	RET	Y	0.005	0.016	0.033	0.059	0.087	0.091	0.093	0.094	0.095	0.096
475	Storage Gas Water Heater, Res, G - HWat	Res	Residential New Construction	LI												

535	ES Clothes Washer MF, Res, E- HWat [Elec DHW/Gas Dry, MF]	Res	Residential New Construction	U Multifamily	NC	Y	0.245	0.273	0.313	0.362	0.413	0.420	0.422	0.423	0.423	0.423
536	ES Clothes Washer MF, Res, E- HWat [Elec DHW/Gas Dry, MF]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.245	0.284	0.329	0.385	0.444	0.456	0.463	0.468	0.472	0.478
537	ES Clothes Washer MF, Res, E/G- Appl [Gas DHW/Elec Dry, MF]	Res	Residential New Construction	U Multifamily	NC	Y	0.245	0.273	0.313	0.362	0.413	0.420	0.422	0.423	0.423	0.423
538	ES Clothes Washer MF, Res, E/G- Appl [Gas DHW/Elec Dry, MF]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.245	0.284	0.329	0.385	0.444	0.456	0.463	0.468	0.472	0.478
539	ES Clothes Washer MF, Res, G- HWat [Gas DHW/Gas Dry, MF]	Res	Residential New Construction	U Multifamily	NC	Y	0.245	0.273	0.315	0.368	0.421	0.429	0.432	0.433	0.434	0.434
540	ES Clothes Washer MF, Res, G- HWat [Gas DHW/Gas Dry, MF]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.245	0.284	0.332	0.391	0.452	0.465	0.473	0.479	0.485	0.490
541	ECM Circ Pump, Res, E- Oth [DHW]	Res	Residential New Construction	U Multifamily	NC	Y	0.042	0.058	0.101	0.179	0.265	0.326	0.365	0.396	0.396	0.397
542	ECM Circ Pump, Res, E- Oth [DHW]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.042	0.061	0.106	0.191	0.285	0.335	0.400	0.438	0.443	0.448
543	ECM Circ Pump, Res, E- Oth [Heating Water]	Res	Residential New Construction	U Multifamily	NC	Y	0.084	0.112	0.166	0.262	0.370	0.457	0.471	0.475	0.476	0.476
544	ECM Circ Pump, Res, E- Oth [Heating Water]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.084	0.116	0.175	0.278	0.397	0.496	0.516	0.526	0.531	0.538
545	ES Dehumidifier, Res, E- Appl	Res	Residential New Construction	U Multifamily	NC	Y	0.188	0.200	0.217	0.286	0.335	0.354	0.362	0.368	0.370	0.377
546	ES Dehumidifier, Res, E- Appl	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.188	0.185	0.211	0.252	0.307	0.363	0.388	0.403	0.411	0.418
547	ES Dishwasher, Res, E- Appl [Elec Water Heating]	Res	Residential New Construction	U Multifamily	NC	Y	0.042	0.072	0.122	0.209	0.314	0.406	0.419	0.423	0.423	0.423
548	ES Dishwasher, Res, E- Appl [Elec Water Heating]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.042	0.075	0.128	0.222	0.337	0.441	0.459	0.468	0.472	0.478
549	ES Dishwasher, Res, E- HWat [Elec Water Heating]	Res	Residential New Construction	U Multifamily	NC	Y	0.042	0.072	0.122	0.209	0.314	0.406	0.419	0.423	0.423	0.423
550	ES Dishwasher, Res, E- HWat [Elec Water Heating]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.042	0.075	0.128	0.222	0.337	0.441	0.459	0.468	0.472	0.478
551	ES Dishwasher, Res, E/G- Appl [Gas Water Heating]	Res	Residential New Construction	U Multifamily	NC	Y	0.042	0.072	0.122	0.209	0.314	0.406	0.419	0.423	0.423	0.423
552	ES Dishwasher, Res, E/G- Appl [Gas Water Heating]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.042	0.075	0.128	0.222	0.337	0.441	0.459	0.468	0.472	0.478
553	Tier 2 Power Strip, Res, E- Plug	Res	Residential Retrofit	U Multifamily	RET	Y	0.004	0.011	0.021	0.035	0.049	0.051	0.052	0.053	0.053	0.054
554	Variable Speed Pool Pump, Res, E- Oth	Res	Residential New Construction	U Multifamily	NC	Y	0.014	0.027	0.054	0.109	0.197	0.298	0.339	0.358	0.366	0.370
555	Variable Speed Pool Pump, Res, E- Oth	Res	Residential Retrofit	U Multifamily	RET	Y	0.014	0.022	0.028	0.032	0.035	0.042	0.043	0.044	0.045	0.046
556	Variable Speed Pool Pump, Res, E- Oth	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.014	0.027	0.052	0.099	0.169	0.273	0.330	0.371	0.402	0.418
557	ECM Blower Motor, Res, E/G- Oth	Res	Residential New Construction	U Multifamily	NC	Y	0.038	0.040	0.012	0.013	0.014	0.015	0.015	0.015	0.015	0.016
558	WH Jacket Insulation, Res, E- HWat	Res	Residential Retrofit	U Multifamily	RET	Y	0.004	0.011	0.020	0.031	0.044	0.045	0.046	0.046	0.046	0.047
559	WH Setback, Res, E- HWat	Res	Residential Retrofit	U Multifamily	RET	Y	0.028	0.035	0.042	0.051	0.060	0.063	0.066	0.068	0.070	0.072
560	Faucet Aerator, Res, E- HWat	Res	Residential Retrofit	U Multifamily	RET	Y	0.014	0.026	0.037	0.048	0.058	0.058	0.059	0.059	0.060	0.060
561	Low Flow Showerhead, Res, E- HWat	Res	Residential Retrofit	U Multifamily	RET	Y	0.004	0.010	0.016	0.023	0.030	0.031	0.033	0.034	0.035	0.036
562	Thermo Restrict Valve, Res, E- HWat	Res	Residential Retrofit	U Multifamily	RET	Y	0.002	0.004	0.006	0.009	0.011	0.012	0.012	0.013	0.013	0.013
563	HPWH, Res, E- HWat >55 gal Elec Space Heat	Res	Residential New Construction	U Multifamily	NC	N	0.193	0.228	0.283	0.362	0.447	0.519	0.526	0.528	0.528	0.529
564	HPWH, Res, E- HWat >55 gal Elec Space Heat	Res	Residential Retrofit	U Multifamily	RET	N	0.193	0.228	0.283	0.362	0.447	0.519	0.526	0.528	0.528	0.529
565	HPWH, Res, E- HWat >55 gal Elec Space Heat	Res	Residential Equipment Replacement	U Multifamily	REPL	N	0.193	0.226	0.272	0.332	0.388	0.425	0.404	0.377	0.350	0.323
566	HPWH, Res, E/G- HWat >55 gal Gas Space Heat	Res	Residential New Construction	U Multifamily	NC	N	0.193	0.228	0.283	0.362	0.447	0.519	0.526	0.528	0.528	0.529
567	HPWH, Res, E/G- HWat >55 gal Gas Space Heat	Res	Residential Retrofit	U Multifamily	RET	N	0.193	0.226	0.272	0.332	0.388	0.425	0.404	0.377	0.350	0.323
568	HPWH, Res, E/G- HWat >55 gal Gas Space Heat	Res	Residential Equipment Replacement	U Multifamily	REPL	N	0.193	0.226	0.272	0.332	0.388	0.425	0.404	0.377	0.350	0.323
569	HPWH, Res, E- HWat <55 gal Elec Space Heat	Res	Residential New Construction	U Multifamily	NC	N	0.193	0.228	0.283	0.362	0.447	0.519	0.526	0.528	0.528	0.529
570	HPWH, Res, E- HWat <55 gal Elec Space Heat	Res	Residential Retrofit	U Multifamily	RET	N	0.193	0.226	0.272	0.332	0.388	0.425	0.404	0.377	0.350	0.323
571	HPWH, Res, E- HWat <55 gal Elec Space Heat	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.193	0.226	0.272	0.332	0.388	0.425	0.404	0.377	0.350	0.323
572	HPWH, Res, E/G- HWat <55 gal Gas Space Heat	Res	Residential New Construction	U Multifamily	NC	Y	0.193	0.228	0.283	0.362	0.447	0.519	0.526	0.528	0.528	0.529
573	HPWH, Res, E/G- HWat <55 gal Gas Space Heat	Res	Residential Retrofit	U Multifamily	RET	N	0.193	0.226	0.272	0.332	0.388	0.425	0.404	0.377	0.350	0.323
574	HPWH, Res, E/G- HWat <55 gal Gas Space Heat	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.193	0.226	0.272	0.332	0.388	0.425	0.404	0.377	0.350	0.323
575	Attic Insulation, Res, E- Heat [Elec Heating]	Res	Residential Retrofit	U Multifamily	RET	Y	0.014	0.018	0.021	0.025	0.028	0.036	0.036	0.037	0.037	0.037
576	Attic Insulation, Res, E- Heat [Elec Heating]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.014	0.018	0.021	0.025	0.028	0.036	0.036	0.037	0.037	0.037
577	Wall Insulation, Res, E- Heat [Elec Heating]	Res	Residential Retrofit	U Multifamily	RET	Y	0.011	0.016	0.021	0.026	0.032	0.032	0.033	0.033	0.033	0.034
578	Wall Insulation, Res, E- Heat [Elec Heating]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.011	0.016	0.021	0.026	0.032	0.032	0.033	0.033	0.033	0.034
579	Air Sealing, Res, E- Heat [Elec Heating]	Res	Residential Retrofit	U Multifamily	RET	Y	0.014	0.018	0.021	0.025	0.028	0.036	0.036	0.037	0.037	0.037
580	ES Fridge and Freezer, Res, E- Refr	Res	Residential New Construction	U Multifamily	NC	Y	0.294	0.333	0.407	0.471	0.509	0.537	0.536	0.535	0.535	0.536
581	ES Fridge and Freezer, Res, E- Refr	Res	Residential Retrofit	U Multifamily	RET	Y	0.000	0.000	0.001	0.002	0.004	0.007	0.013	0.021	0.026	0.030
582	ES Fridge and Freezer, Res, E- Refr	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.294	0.333	0.407	0.471	0.509	0.537	0.536	0.535	0.535	0.536
583	Fridge Freezer Removal, Res, E- Refr	Res	Residential Retrofit	U Multifamily	RET	Y	0.014	0.018	0.017	0.018	0.018	0.014	0.007	0.007	0.007	0.000
584	Room AC, Res, E- Cool	Res	Residential New Construction	U Multifamily	NC	Y	0.189	0.265	0.401	0.496	0.528	0.537	0.536	0.535	0.535	0.541
585	Room AC, Res, E- Cool	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.189	0.276	0.422	0.527	0.567	0.587	0.587	0.592	0.598	0.605
586	CAC Tune Up, Res, E- Cool	Res	Residential Retrofit	U Multifamily	RET	N	0.014	0.018	0.021	0.025	0.028	0.032	0.036	0.037	0.037	0.037
587	CAC Recommendation, Res, E- Cool	Res	Residential Retrofit	U Multifamily	RET	Y	0.021	0.025	0.028	0.030	0.032	0.033	0.034	0.036	0.038	0.042
588	ASHP Tune Up, Res, E- Cool	Res	Residential Retrofit	U Multifamily	RET	Y	0.019	0.029	0.038	0.056	0.060	0.068	0.071	0.074	0.074	0.074
589	ASHP Tune Up, Res, E- Heat	Res	Residential Retrofit	U Multifamily	RET	Y	0.009	0.008	0.006	0.006	0.006	0.005	0.004	0.004	0.004	0.040
590	CAC, Res, E- Cool	Res	Residential New Construction	U Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264	0.231
591	CAC, Res, E- Cool	Res	Residential Retrofit	U Multifamily	RET	Y	0.004	0.005	0.007	0.006	0.005	0.005	0.004	0.004	0.004	0.000
592	CAC, Res, E- Cool	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.140	0.180	0.234	0.314	0.342	0.369	0.335	0.321	0.295	0.261
593	QI CAC, Res, E- Cool	Res	Residential New Construction	U Multifamily	NC	Y	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199	0.231
594	QI CAC, Res, E- Cool	Res	Residential Retrofit	U Multifamily	RET	N	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199	0.231
595	QI CAC, Res, E- Cool	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199	0.231
596	ASHP, Res, E- Cool	Res	Residential New Construction	U Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264	0.231
597	ASHP, Res, E- Cool	Res	Residential Retrofit	U Multifamily	RET	Y	0.004	0.005	0.007	0.006	0.005	0.005	0.004	0.004	0.004	0.000
598	ASHP, Res, E- Cool	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.140	0.180	0.234	0.314	0.342	0.369	0.335	0.321	0.295	0.261
599	ASHP, Res, E- Heat	Res	Residential New Construction	U Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264	0.231
600	ASHP, Res, E- Heat	Res	Residential Retrofit	U Multifamily	RET	Y	0.004	0.005	0.007	0.006	0.005	0.005	0.004	0.004	0.004	0.000
601	ASHP, Res, E- Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.140	0.180	0.234	0.314	0.342	0.369	0.335	0.321	0.295	0.261
602	ASHP, Res, E- Cool [Repl Elec Heat and CAC]	Res	Residential New Construction	U Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264	0.231
603	ASHP, Res, E- Cool [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.140	0.182	0.239	0.325	0.356	0.388	0.355	0.321	0.295	0.261
604	ASHP, Res, E- Heat [Repl Elec Heat and CAC]	Res	Residential New Construction	U Multifamily	NC	Y	0.140	0.175	0.228	0.306	0.332	0.358	0.324	0.291	0.264	0.231
605	ASHP, Res, E- Heat [Repl Elec Heat and CAC]	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.140	0.182	0.239	0.325	0.356	0.388	0.355	0.321	0.295	0.261
606	QI ASHP, Res, E- Cool	Res	Residential New Construction	U Multifamily	NC	Y	0.021	0.027	0.037	0.050	0.069	0.096	0.129	0.164	0.199	0.231
607	QI ASHP, Res, E- Cool	Res	Residential Retrofit	U Multifamily	RET	Y	0.014	0.017	0.017	0.017	0.017	0.014	0.011	0.010	0.009	0.009
608	QI ASHP, Res, E- Cool	Res	Residential Equipment Replacement	U Multifamily	REPL	Y	0.021	0.028	0.036	0.048	0.066	0.090	0.120	0.172	0.223	0.261
609	QI ASHP, Res, E- Heat	Res	Residential New Construction	U Multifamily	NC	Y	0									

670	Int Delamping_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
671	Stair Occ Sensor_Com, E - Intl. [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
672	Stair Occ Sensor_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
673	Stair Occ Sensor_Com, E - Intl. [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.716	0.715
674	Stair Occ Sensor_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
675	Stair Occ Sensor_Com, E/G - Intl.	C&I	C&I New Construction	Small Office	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
676	Stair Occ Sensor_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
677	Refrig Case LED_Com, E - Intl.	C&I	C&I New Construction	Small Office	NC	Y	0.150	0.275	0.363	0.512	0.650	0.721	0.747	0.754	0.753	0.753
678	Refrig Case LED_Com, E - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.027	0.037	0.049	0.059	0.057	0.052	0.048	0.048	0.049
679	Refrig Case LED_Com, E - Intl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.150	0.272	0.348	0.485	0.546	0.550	0.511	0.454	0.444	0.433
680	Refrig Case Crtr_Com, E - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.029	0.040	0.056	0.075	0.086	0.082	0.083	0.084	0.085
681	Repl pin CFL wLED_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
682	Repl pin CFL wLED_Com, E - Intl. [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
683	Repl pin CFL wLED_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
684	Repl pin CFL wLED_Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
685	Repl pin CFL wLED_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
686	Repl pin CFL wLED_Com, E/G - Intl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
687	LED Tube Repl_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
688	LED Tube Repl_Com, E - Intl. [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
689	LED Tube Repl_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
690	LED Tube Repl_Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
691	LED Tube Repl_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.015	0.016	0.009	0.009
692	LED Tube Repl_Com, E/G - Intl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.100	0.182	0.171	0.161	0.154	0.150	0.147	0.155	0.166	0.171
693	Lin LED Fixture_Com, E - Intl. [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
694	Lin LED Fixture_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
695	Lin LED Fixture_Com, E - Intl. [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
696	Lin LED Fixture_Com, E - Intl. [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
697	Lin LED Fixture_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
698	Lin LED Fixture_Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
699	Lin LED Fixture_Com, E/G - Intl.	C&I	C&I New Construction	Small Office	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
700	Lin LED Fixture_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
701	Lin LED Fixture_Com, E/G - Intl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
702	Repl Scre_Com, E - Intl. [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
703	Repl Scre_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
704	Repl Scre_Com, E - Intl. [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
705	Repl Scre_Com, E - Intl. [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
706	Repl Scre_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
707	Repl Scre_Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
708	Repl Scre_Com, E/G - Intl.	C&I	C&I New Construction	Small Office	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
709	Repl Scre_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
710	Repl Scre_Com, E/G - Intl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
711	LED Hilo Bay_Com, E - Intl. [No Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
712	LED Hilo Bay_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
713	LED Hilo Bay_Com, E - Intl. [No Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
714	LED Hilo Bay_Com, E - Intl. [Electric Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
715	LED Hilo Bay_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
716	LED Hilo Bay_Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
717	LED Hilo Bay_Com, E/G - Intl.	C&I	C&I New Construction	Small Office	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
718	LED Hilo Bay_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
719	LED Hilo Bay_Com, E/G - Intl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
720	Exit Sign RetFlx_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
721	Exit Sign RetFlx_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
722	Exit Sign RetFlx_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
723	Int Ltg Ctrls_Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.053	0.059	0.064
724	Int Ltg Ctrls_Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.053	0.059	0.064
725	Int Ltg Ctrls_Com, E/G - Intl.	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.053	0.059	0.064
726	Ext Ltg Dsgn_Com, E - Extl.	C&I	C&I New Construction	Small Office	NC	Y	0.030	0.029	0.038	0.038	0.047	0.047	0.047	0.047	0.047	0.047
727	Ext Ltg Ctrls_Com, E - Extl.	C&I	C&I Retrofit	Small Office	RET	Y	0.050	0.058	0.062	0.060	0.055	0.049	0.047	0.047	0.047	0.048
728	Street Ltg_Com, E - Extl.	C&I	C&I New Construction	Small Office	NC	Y	0.440	0.468	0.519	0.540	0.570	0.598	0.614	0.622	0.625	0.626
729	Street Ltg_Com, E - Extl.	C&I	C&I Retrofit	Small Office	RET	Y	0.030	0.025	0.038	0.040	0.049	0.050	0.049	0.045	0.048	0.051
730	Street Ltg_Com, E - Extl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.440	0.459	0.499	0.487	0.479	0.463	0.449	0.461	0.464	0.472
731	Ext Area Ltg_Com, E - Extl.	C&I	C&I New Construction	Small Office	NC	Y	0.612	0.595	0.607	0.611	0.612	0.612	0.612	0.611	0.610	0.610
732	Ext Area Ltg_Com, E - Extl.	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.025	0.030	0.035	0.038	0.036	0.034	0.038	0.041	0.045
733	Ext Area Ltg_Com, E - Extl.	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.612	0.591	0.586	0.568	0.542	0.515	0.486	0.531	0.578	0.625
734	Minisplit Ductless HP_Com, E - Cool	C&I	C&I Retrofit	Small Office	RET	Y	0.003	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
735	Minisplit Ductless HP_Com, E - Cool	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.598	0.598	0.595
736	Minisplit Ductless HP_Com, E - Heat	C&I	C&I Retrofit	Small Office	RET	Y	0.004	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
737	Minisplit Ductless HP_Com, E - Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.598	0.598	0.595
738	PTHP_Com, E - Cool	C&I	C&I New Construction	Small Office	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
739	PTHP_Com, E - Cool	C&I	C&I Retrofit	Small Office	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
740	PTHP_Com, E - Cool	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
741	PTHP_Com, E - Heat	C&I	C&I New Construction	Small Office	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
742	PTHP_Com, E - Heat	C&I	C&I Retrofit	Small Office	RET	Y	0.011	0.008	0.013	0.024	0.040	0.043	0.044	0.049	0.053	0.063
743	PTHP_Com, E - Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	

805	Clothes Washer Gas WHL Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Small Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
806	Clothes Washer Gas WHL Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
807	Clothes Washer Gas WHL Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Small Office	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
808	Clothes Washer Gas WHL Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.350	0.406	0.472	0.552	0.634	0.650	0.660	0.667	0.674	0.680
809	Clothes Washer Gas WH Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Small Office	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
810	Clothes Washer Gas WH Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
811	Ozone Laundry, Com, E - HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.064
812	Ozone Laundry, Com, G - HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.063
813	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Small Office	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
814	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
815	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Small Office	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
816	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
817	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Small Office	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
818	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
819	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I New Construction	Small Office	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
820	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
821	Com Faucet Aerator, Com, E - HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.004	0.004	0.006	0.012	0.017	0.017	0.017	0.017	0.017	0.017
822	Com Faucet Aerator, Com, G - HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.040	0.049	0.057	0.063	0.069	0.067	0.066	0.067	0.067	0.068
823	Pre Rinse Sprayers, Com, G - HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.060	0.066	0.070	0.072	0.074	0.078	0.083	0.083	0.084	0.085
824	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Small Office	NC	Y	0.090	0.108	0.131	0.157	0.190	0.231	0.279	0.329	0.378	0.424
825	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Small Office	RET	Y	0.015	0.018	0.021	0.025	0.029	0.034	0.037	0.039	0.039	0.038
826	Heat Pump Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.090	0.108	0.130	0.153	0.180	0.212	0.245	0.274	0.295	0.305
827	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Small Office	NC	Y	0.540	0.534	0.552	0.580	0.608	0.627	0.641	0.653	0.664	0.670
828	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Small Office	RET	N	0.045	0.043	0.046	0.051	0.053	0.051	0.048	0.053	0.059	0.063
829	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Small Office	REPL	N	0.540	0.504	0.496	0.486	0.468	0.437	0.398	0.427	0.455	0.483
830	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Small Office	NC	N	0.060	0.080	0.103	0.131	0.164	0.204	0.251	0.301	0.317	0.328
831	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Small Office	RET	N	0.006	0.008	0.012	0.016	0.023	0.030	0.036	0.041	0.040	0.038
832	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Small Office	REPL	N	0.060	0.082	0.106	0.133	0.164	0.199	0.236	0.270	0.270	0.264
833	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Small Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.614	0.618
834	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Small Office	RET	Y	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
835	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.350	0.384	0.428	0.467	0.493	0.460	0.420	0.390	0.359	0.327
836	Clothes Dryer, Com, G - Oth	C&I	C&I New Construction	Small Office	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.603	0.601	0.600
837	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Small Office	RET	N	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
838	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.350	0.384	0.427	0.468	0.495	0.461	0.420	0.390	0.358	0.326
839	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
840	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.520	0.516	0.543	0.586	0.643	0.703	0.729	0.742	0.731	0.733
841	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.680	0.679	0.717	0.742	0.756	0.765	0.764	0.764	0.763	0.762
842	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Retrofit	Small Office	RET	N	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.063	0.053	0.053
843	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
844	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Small Office	RET	N	0.040	0.050	0.058	0.063	0.065	0.059	0.054	0.064	0.073	0.082
845	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.520	0.493	0.492	0.491	0.477	0.435	0.384	0.427	0.510	0.575
846	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.516	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
847	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Small Office	RET	Y	0.040	0.049	0.056	0.059	0.060	0.052	0.047	0.049	0.051	0.053
848	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.520	0.487	0.480	0.473	0.455	0.421	0.378	0.387	0.389	0.391
849	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
850	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Small Office	RET	N	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.083	0.084	0.085
851	LowHeat NonHeat Doors, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.030	0.048	0.068	0.087	0.109	0.132	0.160	0.191	0.226	0.264
852	LowHeat NonHeat Doors, Com, E - Refr	C&I	C&I Retrofit	Small Office	RET	N	0.001	0.001	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.005
853	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.630	0.627	0.658	0.697	0.738	0.750	0.753	0.754	0.753	0.753
854	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.630	0.654	0.692	0.740	0.792	0.813	0.825	0.834	0.842	0.850
855	Walk In Refrigeration, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.450	0.471	0.514	0.563	0.621	0.640	0.651	0.656	0.658	0.659
856	Refrigeration Tune Up, Com, E - Refr	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.031	0.042	0.053	0.065	0.077	0.078	0.078	0.079	0.080
857	ES Ice Machine, Com, E - Refr	C&I	C&I New Construction	Small Office	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
858	ES Ice Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
859	Walk In Cooler Retrofit, Com, E - Refr	C&I	C&I Retrofit	Small Office	RET	Y	0.015	0.027	0.041	0.058	0.085	0.087	0.088	0.089	0.089	0.090
860	Motors, Com, E - Oth	C&I	C&I New Construction	Small Office	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
861	Motors, Com, E - Oth	C&I	C&I Retrofit	Small Office	RET	Y	0.005	0.009	0.012	0.016	0.021	0.025	0.029	0.036	0.038	0.039
862	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
863	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Small Office	RET	Y	0.013	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
864	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.090	0.090	0.098	0.096	0.074	0.063	0.048	0.035	0.085	0.086
865	EMS, Com, E - TotE [Building w Elec Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.040	0.047	0.056	0.062	0.115	0.161	0.217	0.276	0.330	0.372
866	EMS, Com, E - TotE [Building w Elec Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
867	EMS, Com, E - TotE [Building w Gas Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.372
868	EMS, Com, E - TotE [Building w Gas Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
869	EMS, Com, G - TotE [Building w Gas Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.372
870	EMS, Com, G - TotE [Building w Gas Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
871	Deep Energy Retrofit, Com, E - TotE [Building w Elec Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
872	Deep Energy Retrofit, Com, E - TotE [Building w Gas Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
873	Deep Energy Retrofit, Com, G - TotE [Building w Gas Heat]	C&I	C&I Retrofit	Small Office	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
874	Integrated Building Design, Com, E - TotE [Building w Elec Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
875	Integrated Building Design, Com, E - TotE [Building w Gas Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
876	Integrated Building Design, Com, G - TotE [Building w Gas Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.150	0.166	0.188	0.212	0.238	0.245	0.255	0.270	0.285	0.300
877	Commissioning, Com, E - TotE [Building w Elec Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
878	Commissioning, Com, E - TotE [Building w Gas Heat]	C&I	C&I New Construction	Small Office	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373				

940	Unit Heater, Com, G - Heat	C&I	C&I New Construction	Small Office	NC	Y	0.240	0.239	0.248	0.261	0.277	0.292	0.304	0.313	0.321	0.328
941	Unit Heater, Com, G - Heat	C&I	C&I Retrofit	Small Office	RET	Y	0.012	0.017	0.025	0.040	0.055	0.057	0.055	0.051	0.051	0.051
942	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.240	0.241	0.246	0.249	0.249	0.243	0.232	0.217	0.215	0.211
943	Furnace, Com, G - Heat	C&I	C&I New Construction	Small Office	NC	Y	0.821	0.816	0.814	0.812	0.812	0.812	0.812	0.809	0.805	0.804
944	Furnace, Com, G - Heat	C&I	C&I Retrofit	Small Office	RET	Y	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008
945	Furnace, Com, G - Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.810	0.850	0.850	0.852	0.853	0.853	0.852	0.849	0.846	0.841
946	Boilers, Com, G - Heat	C&I	C&I New Construction	Small Office	NC	Y	0.810	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
947	Boilers, Com, G - Heat	C&I	C&I Retrofit	Small Office	RET	N	0.038	0.036	0.036	0.036	0.037	0.036	0.035	0.033	0.031	0.029
948	Boilers, Com, G - Heat	C&I	C&I Equipment Replacement	Small Office	REPL	Y	0.810	0.789	0.755	0.721	0.683	0.643	0.600	0.555	0.508	0.460
949	Boiler Modifications, Com, G - Heat	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.059
950	Boiler Blowdown Controls, Com, G - Heat	C&I	C&I Retrofit	Small Office	RET	N	0.008	0.008	0.011	0.014	0.017	0.021	0.025	0.030	0.034	0.038
951	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.140	0.254	0.381	0.518	0.664	0.675	0.678	0.679	0.678	0.678
952	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
953	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.140	0.254	0.381	0.518	0.664	0.675	0.678	0.679	0.678	0.678
954	Smart TStat, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
955	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.120	0.221	0.340	0.485	0.646	0.669	0.677	0.679	0.678	0.678
956	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
957	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.120	0.221	0.340	0.487	0.649	0.671	0.677	0.678	0.677	0.675
958	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.090
959	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
960	Programmable TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
961	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.600	0.560	0.486	0.339	0.199	0.122	0.094	0.085	0.085	0.085
962	Programmable TStat, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.010	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
963	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Office	NC	Y	0.600	0.560	0.485	0.340	0.200	0.122	0.094	0.085	0.085	0.084
964	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Office	RET	Y	0.020	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
965	Int Ltg Dsgn, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
966	Int Ltg Dsgn, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
967	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Large Office	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
968	Int Delamping, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.036	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
969	Int Delamping, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
970	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
971	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
972	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
973	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
974	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
975	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Large Office	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
976	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
977	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Large Office	NC	Y	0.150	0.275	0.363	0.512	0.650	0.721	0.747	0.754	0.753	0.753
978	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.027	0.037	0.049	0.059	0.057	0.052	0.048	0.048	0.049
979	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.150	0.272	0.348	0.465	0.546	0.550	0.511	0.454	0.444	0.433
980	Refrig Case Ctrls, Com, E - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.029	0.040	0.056	0.075	0.080	0.082	0.083	0.084	0.085
981	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
982	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
983	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
984	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
985	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
986	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
987	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048
988	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
989	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
990	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
991	LED Tube Repl, Com, E/G - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.048	0.054	0.043	0.033	0.024	0.015	0.016	0.009	0.009
992	LED Tube Repl, Com, E/G - Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.100	0.182	0.171	0.161	0.154	0.150	0.147	0.155	0.166	0.177
993	Lin LED Fixture, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.080	0.117	0.168	0.310	0.433	0.542	0.609	0.641	0.644	0.654
994	Lin LED Fixture, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.008	0.009	0.002	0.002
995	Lin LED Fixture, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
996	Lin LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
997	Lin LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
998	Lin LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
999	Lin LED Fixture, Com, E/G - Intl	C&I	C&I New Construction	Large Office	NC	Y	0.080	0.117	0.168	0.310	0.433	0.542	0.609	0.641	0.644	0.654
1000	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.008	0.009	0.002	0.002
1001	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
1002	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1003	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1004	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1005	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1006	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1007	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1008	Repl Scre, Com, E/G - Intl	C&I	C&I New Construction	Large Office	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1009	Repl Scre, Com, E/G - Intl	C&I	C&I Retrofit	Large Office	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1010	Repl Scre, Com, E/G - Intl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1011	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1012	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.039	0.048	0.067	0.082	0.096	0.102	0.102	0.102	0.102	0.102
1013	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377

1075	AC Tuneup, Com, E - Heat (ASHP)	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
1076	AC Tuneup, Com, E - Cool (Unitary AC)	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
1077	Unitary Equipment Economizer, Com, E - Cool	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.047	0.053	0.056	0.060	0.066	0.066	0.067	0.067	0.068
1078	PTAC, Com, E - Cool	C&I	C&I New Construction	Large Office	RET	Y	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
1079	PTAC, Com, E - Cool	C&I	C&I Retrofit	Large Office	RET	Y	0.008	0.011	0.013	0.012	0.006	0.008	0.006	0.008	0.006	0.005
1080	PTAC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.424	0.421	0.417
1081	Eff Unitary AC, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
1082	Eff Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Large Office	RET	N	0.008	0.012	0.020	0.034	0.048	0.049	0.047	0.048	0.050	0.051
1083	Eff Unitary AC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.569	0.576	0.582
1084	Minsplit Ductless AC, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	0.120	0.128	0.133	0.135	0.139	0.136	0.136	0.136	0.136	0.136
1085	Minsplit Ductless AC, Com, E - Cool	C&I	C&I Retrofit	Large Office	RET	N	0.003	0.004	0.009	0.011	0.013	0.015	0.017	0.018	0.019	0.020
1086	Minsplit Ductless AC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.596	0.590	0.581
1087	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	0.563	0.562	0.587	0.614	0.644	0.669	0.691	0.712	0.732	0.753
1088	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.563	0.586	0.618	0.653	0.691	0.726	0.757	0.788	0.819	0.850
1089	Chiller Tuneup, Com, E - Cool	C&I	C&I Retrofit	Large Office	RET	N	0.060	0.064	0.068	0.070	0.070	0.069	0.065	0.063	0.063	0.063
1090	Chiller Systems, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	0.720	0.721	0.755	0.781	0.803	0.803	0.802	0.801	0.801	0.800
1091	Chiller Systems, Com, E - Cool	C&I	C&I Retrofit	Large Office	RET	N	0.027	0.039	0.059	0.070	0.089	0.083	0.056	0.050	0.045	0.040
1092	Chiller Systems, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.720	0.698	0.684	0.641	0.580	0.499	0.416	0.331	0.244	0.156
1093	Com Room AC, Com, E - Cool	C&I	C&I New Construction	Large Office	NC	Y	0.240	0.321	0.451	0.575	0.676	0.765	0.764	0.764	0.763	0.770
1094	Com Room AC, Com, E - Cool	C&I	C&I Retrofit	Large Office	RET	Y	0.120	0.112	0.075	0.043	0.043	0.050	0.052	0.052	0.053	0.053
1095	Com Room AC, Com, E - Cool	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.252	0.313	0.367	0.556	0.772	0.837	0.845	0.853	0.861
1096	Com ES Dehumidifier, Com, E - Appl	C&I	C&I New Construction	Large Office	NC	Y	0.240	0.254	0.288	0.339	0.409	0.477	0.506	0.519	0.525	0.527
1097	Com ES Dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.265	0.303	0.361	0.439	0.517	0.554	0.575	0.587	0.595
1098	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1099	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1100	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1101	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1102	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1103	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1104	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1105	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1106	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1107	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1108	Clothes Washer Gas WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
1109	Clothes Washer Gas WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
1110	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1111	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1112	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
1113	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
1114	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
1115	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
1116	Ozone Laundry, Com, G - HWat	C&I	C&I Retrofit	Large Office	RET	N	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.063
1117	Ozone Laundry, Com, G - HWat	C&I	C&I Retrofit	Large Office	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.063
1118	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Large Office	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1119	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1120	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Large Office	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1121	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1122	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Large Office	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1123	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1124	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I New Construction	Large Office	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1125	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1126	Com Faucet Aerator, Com, E - HWat	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.054	0.066	0.072	0.077	0.074	0.073	0.073	0.074	0.074
1127	Com Faucet Aerator, Com, G - HWat	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.049	0.057	0.063	0.069	0.067	0.066	0.067	0.067	0.068
1128	Pre Rinse Sprayers, Com, E - HWat	C&I	C&I Retrofit	Large Office	RET	Y	0.075	0.072	0.077	0.078	0.077	0.074	0.062	0.062	0.063	0.063
1129	Pre Rinse Sprayers, Com, G - HWat	C&I	C&I Retrofit	Large Office	RET	Y	0.060	0.066	0.070	0.072	0.077	0.078	0.083	0.083	0.084	0.084
1130	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Large Office	NC	Y	0.090	0.108	0.131	0.157	0.190	0.231	0.279	0.329	0.378	0.424
1131	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Large Office	RET	Y	0.015	0.018	0.021	0.025	0.029	0.034	0.037	0.039	0.039	0.038
1132	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.090	0.108	0.130	0.153	0.180	0.212	0.245	0.274	0.295	0.305
1133	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Large Office	NC	N	0.540	0.534	0.552	0.580	0.608	0.627	0.641	0.653	0.664	0.675
1134	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Large Office	REPL	N	0.043	0.046	0.046	0.046	0.053	0.051	0.048	0.053	0.059	0.063
1135	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Large Office	REPL	N	0.540	0.504	0.495	0.486	0.465	0.437	0.398	0.423	0.453	0.483
1136	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Large Office	NC	N	0.060	0.080	0.103	0.131	0.164	0.204	0.251	0.301	0.317	0.328
1137	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Large Office	RET	N	0.006	0.008	0.012	0.016	0.023	0.030	0.036	0.041	0.040	0.038
1138	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Large Office	REPL	N	0.060	0.082	0.106	0.133	0.164	0.199	0.236	0.270	0.270	0.264
1139	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.603	0.603	0.602
1140	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Large Office	RET	Y	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
1141	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.384	0.418	0.467	0.519	0.592	0.601	0.603	0.603	0.603	0.603
1142	Clothes Dryer, Com, G - Oth	C&I	C&I New Construction	Large Office	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.603	0.603	0.602
1143	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Large Office	RET	N	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
1144	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.350	0.384	0.427	0.468	0.495	0.461	0.420	0.390	0.358	0.326
1145	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Large Office	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
1146	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.520	0.544	0.586	0.643	0.703	0.729	0.742	0.751	0.758	0.765
1147	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Large Office	NC	Y	0.040	0.049	0.062	0.074	0.089	0.102	0.112	0.118	0.120	0.120

1210	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1211	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1212	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1213	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.305	0.305	0.459	0.559	0.576	0.586	0.591	0.592	0.593	0.593
1214	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
1215	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
1216	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
1217	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
1218	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
1219	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
1220	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
1221	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
1222	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.240	0.305	0.381	0.466	0.561	0.577	0.587	0.590	0.591	0.590
1223	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.028	0.035	0.038	0.041	0.042	0.039	0.039	0.040	0.040
1224	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.302	0.366	0.430	0.492	0.476	0.452	0.462	0.470	0.477
1225	VFD on HVAC System, Com, E - Vent	C&I	C&I Retrofit	Large Office	RET	Y	0.040	0.049	0.057	0.061	0.067	0.074	0.074	0.075	0.076	0.077
1226	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Large Office	RET	Y	0.014	0.022	0.032	0.048	0.066	0.071	0.074	0.075	0.076	0.077
1227	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Large Office	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
1228	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Large Office	RET	Y	0.005	0.009	0.012	0.016	0.020	0.025	0.028	0.030	0.028	0.026
1229	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.530	0.502	0.476
1230	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
1231	Window Film, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
1232	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
1233	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
1234	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
1235	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
1236	Windows, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
1237	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	N	0.180	0.210	0.264	0.352	0.473	0.547	0.592	0.613	0.621	0.623
1238	Steam Trap Maintenance, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.049	0.059	0.073	0.080	0.085	0.087	0.088	0.088	0.089	0.090
1239	Infrared Heater, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	0.180	0.206	0.241	0.281	0.325	0.371	0.413	0.452	0.489	0.525
1240	Infrared Heater, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	N	0.012	0.017	0.026	0.042	0.059	0.063	0.064	0.065	0.074	0.076
1241	Infrared Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.180	0.209	0.239	0.269	0.292	0.309	0.315	0.312	0.400	0.497
1242	Forced Air Heating Maintenance, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.010	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.055
1243	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	0.120	0.211	0.315	0.409	0.489	0.474	0.458	0.443	0.430	0.422
1244	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.005	0.011	0.016	0.019	0.021	0.024	0.026	0.028	0.030	0.031
1245	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.120	0.212	0.311	0.412	0.484	0.469	0.431	0.402	0.374	0.348
1246	Unit Heater, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	0.240	0.239	0.248	0.261	0.277	0.292	0.304	0.313	0.321	0.328
1247	Unit Heater, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.012	0.017	0.025	0.040	0.055	0.057	0.055	0.051	0.051	0.051
1248	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.240	0.241	0.246	0.249	0.249	0.243	0.232	0.217	0.215	0.211
1249	Furnace, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	0.810	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
1250	Furnace, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.007	0.008	0.008
1251	Furnace, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.810	0.850	0.850	0.852	0.853	0.852	0.849	0.846	0.841	0.831
1252	Boilers, Com, G - Heat	C&I	C&I New Construction	Large Office	NC	Y	0.810	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
1253	Boilers, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	N	0.038	0.036	0.036	0.036	0.037	0.036	0.035	0.033	0.031	0.029
1254	Boilers, Com, G - Heat	C&I	C&I Equipment Replacement	Large Office	REPL	Y	0.810	0.789	0.755	0.721	0.683	0.643	0.600	0.555	0.508	0.460
1255	Boiler Modifications, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	Y	0.010	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.059
1256	Boiler Blowdown Controls, Com, G - Heat	C&I	C&I Retrofit	Large Office	RET	N	0.005	0.008	0.011	0.014	0.017	0.021	0.025	0.030	0.034	0.038
1257	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.254	0.240	0.248	0.261	0.278	0.294	0.306	0.318	0.328	0.338
1258	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
1259	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.140	0.254	0.381	0.518	0.664	0.675	0.678	0.679	0.678	0.678
1260	Smart TStat, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
1261	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.120	0.221	0.340	0.485	0.646	0.669	0.677	0.679	0.678	0.678
1262	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
1263	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.120	0.221	0.340	0.477	0.649	0.671	0.677	0.678	0.677	0.675
1264	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
1265	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
1266	Programmable TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
1267	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.600	0.560	0.486	0.339	0.199	0.122	0.094	0.085	0.085	0.085
1268	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1269	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Office	NC	Y	0.580	0.495	0.385	0.240	0.122	0.059	0.035	0.025	0.025	0.025
1270	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Office	RET	Y	0.020	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1271	Int Ltg Dsgn, Com, E - Intl, [No Heat]	C&I	C&I New Construction	Education	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1272	Int Ltg Dsgn, Com, E - Intl, [Electric Heat]	C&I	C&I New Construction	Education	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1273	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Education	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1274	Int Delamping, Com, E - Intl, [No Heat]	C&I	C&I Retrofit	Education	RET	N	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
1275	Int Delamping, Com, E - Intl, [Electric Heat]	C&I	C&I Retrofit	Education	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
1276	Int Delamping, Com, E - Intl, [No Heat]	C&I	C&I Retrofit	Education	RET	N	0.006	0.016	0.026	0.030	0.034	0.036	0.037	0.038	0.039	0.040
1277	Star Occ Sensor, Com, E - Intl, [No Heat]	C&I	C&I New Construction	Education	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
1278	Star Occ Sensor, Com, E - Intl, [No Heat]	C&I	C&I Retrofit	Education	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
1279	Star Occ Sensor, Com, E - Intl, [Electric Heat]	C&I	C&I New Construction	Education	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
1280	Star Occ Sensor, Com, E - Intl, [Electric Heat]	C&I	C&I Retrofit	Education	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
1281	Star Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Education	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
1282	Star Occ Sensor, Com, E/G - Intl	C&I	C&I Retrofit	Education	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
1283	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Education	NC	Y	0.150	0.275	0.363	0.512	0.650	0.721	0			

1345	PTHP ,Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
1346	PTHP ,Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
1347	PTHP ,Com, E - Heat	C&I	C&I New Construction	Education	NC	Y	0.240	0.296	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
1348	PTHP ,Com, E - Heat	C&I	C&I Retrofit	Education	RET	N	0.011	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
1349	PTHP ,Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
1350	Unitary HP ,Com, E - Cool	C&I	C&I New Construction	Education	NC	N	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
1351	Unitary HP ,Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
1352	Unitary HP ,Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	N	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
1353	Unitary HP ,Com, E - Heat	C&I	C&I New Construction	Education	NC	N	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
1354	Unitary HP ,Com, E - Heat	C&I	C&I Retrofit	Education	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
1355	Unitary HP ,Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	N	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
1356	Com GSHP ,Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
1357	Com GSHP ,Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	N	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
1358	Com GSHP ,Com, E - Heat	C&I	C&I Retrofit	Education	RET	N	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
1359	Com GSHP ,Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	N	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
1360	Cool Roof ,Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
1361	Cool Roof ,Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.016	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
1362	Cool Roof ,Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
1363	Cool Roof ,Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
1364	Cool Roof ,Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
1365	Cool Roof ,Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
1366	Cool Roof ,Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	N	0.005	0.029	0.108	0.296	0.552	0.639	0.670	0.678	0.677	0.675
1367	Cool Roof ,Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.016	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
1368	Optimized Chiller Sys., Com, E - Cool	C&I	C&I New Construction	Education	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1369	Optimized Unitary AC Sys., Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1370	Optimized Unitary AC Sys., Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1371	Optimized Unitary AC Sys., Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1372	Optimized Unitary AC Sys., Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.325	0.417	0.523	0.634	0.644	0.652	0.656	0.658	0.657	0.656
1373	Controls for Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	Y	0.053	0.053	0.062	0.060	0.064	0.063	0.066	0.067	0.069	0.071
1374	DCV ,Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
1375	DCV ,Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
1376	DCV ,Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
1377	DCV ,Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
1378	DCV ,Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.076
1379	DCV ,Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.041	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.076
1380	AC Tuneup ,Com, E - Cool (ASHP)	C&I	C&I Retrofit	Education	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
1381	AC Tuneup ,Com, E - Heat (ASHP)	C&I	C&I Retrofit	Education	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
1382	AC Tuneup ,Com, E - Cool (Unitary AC)	C&I	C&I Retrofit	Education	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
1383	Unitary Equipment Economizer, Com, E - Cool	C&I	C&I Retrofit	Education	RET	Y	0.040	0.047	0.053	0.056	0.060	0.066	0.066	0.067	0.067	0.068
1384	PTAC ,Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
1385	PTAC ,Com, E - Heat	C&I	C&I Retrofit	Education	RET	N	0.008	0.011	0.019	0.032	0.046	0.048	0.046	0.046	0.046	0.045
1386	PTAC ,Com, E - Heat	C&I	C&I Equipment Replacement	Education	REPL	N	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
1387	Eff Unitary AC, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
1388	Eff Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.008	0.012	0.020	0.034	0.048	0.049	0.047	0.048	0.050	0.051
1389	Eff Unitary AC, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.569	0.576	0.582
1390	Minsplit Ductless AC, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	0.120	0.218	0.323	0.435	0.559	0.576	0.586	0.591	0.592	0.593
1391	Minsplit Ductless AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.003	0.004	0.006	0.009	0.011	0.013	0.015	0.017	0.018	0.019
1392	Minsplit Ductless AC, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	N	0.120	0.218	0.323	0.435	0.559	0.576	0.586	0.591	0.592	0.593
1393	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	0.563	0.562	0.587	0.614	0.644	0.669	0.691	0.712	0.732	0.753
1394	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.563	0.586	0.618	0.653	0.691	0.726	0.757	0.788	0.819	0.850
1395	Chiller Tuneup, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.060	0.064	0.068	0.070	0.070	0.069	0.065	0.063	0.063	0.063
1396	Chiller Systems, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	0.720	0.721	0.755	0.781	0.803	0.803	0.802	0.801	0.801	0.800
1397	Chiller Systems, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.027	0.039	0.059	0.070	0.069	0.063	0.056	0.050	0.045	0.040
1398	Chiller Systems, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.720	0.698	0.684	0.641	0.580	0.499	0.416	0.331	0.244	0.156
1399	Com Room AC, Com, E - Cool	C&I	C&I New Construction	Education	NC	Y	0.321	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1400	Com Room AC, Com, E - Cool	C&I	C&I Retrofit	Education	RET	N	0.120	0.132	0.075	0.043	0.043	0.050	0.052	0.052	0.053	0.053
1401	Com Room AC, Com, E - Cool	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.252	0.313	0.367	0.456	0.772	0.837	0.845	0.853	0.861
1402	Com ES Dehumidifier, Com, E - Appl	C&I	C&I New Construction	Education	NC	Y	0.240	0.254	0.288	0.339	0.409	0.477	0.506	0.519	0.525	0.527
1403	Com ES Dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.265	0.300	0.361	0.439	0.517	0.554	0.575	0.587	0.595
1404	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Education	NC	N	0.350	0.390	0.460	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1405	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1406	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Education	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1407	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1408	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Education	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1409	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1410	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Education	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1411	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1412	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Education	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1413	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1414	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Education	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
1415	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Education	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
1416	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Education	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
1417	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Education	REPL	N	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
1418	Clothes Washer Gas WH, Com, G - 0th [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Education	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.6		

1480	Fryers, Com, E - Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1481	Fryers, Com, G - Cook	C&I	C&I New Construction	Education	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1482	Fryers, Com, G - Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1483	Steamers, Com, E - Cook	C&I	C&I New Construction	Education	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1484	Steamers, Com, E - Cook	C&I	C&I Equipment Replacement	Education	REPL	N	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1485	Steamers, Com, G - Cook	C&I	C&I New Construction	Education	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1486	Steamers, Com, G - Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1487	Griddles, Com, E - Cook	C&I	C&I New Construction	Education	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1488	Griddles, Com, E - Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1489	Griddles, Com, G - Cook	C&I	C&I New Construction	Education	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1490	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1491	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Education	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1492	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Education	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1493	Motors, Com, E - Oth	C&I	C&I New Construction	Education	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
1494	Motors, Com, E - Oth	C&I	C&I Retrofit	Education	RET	Y	0.005	0.009	0.012	0.016	0.021	0.025	0.029	0.036	0.038	0.039
1495	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Education	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
1496	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Education	RET	Y	0.003	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
1497	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Education	RET	Y	0.040	0.050	0.058	0.066	0.074	0.083	0.084	0.084	0.085	0.086
1498	EMS, Com, E - TotF (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
1499	EMS, Com, E - TotF (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
1500	EMS, Com, E - TotF (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
1501	EMS, Com, E - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
1502	EMS, Com, G - TotF (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
1503	EMS, Com, G - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
1504	Deep Energy Retrofit, Com, E - TotF (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
1505	Deep Energy Retrofit, Com, E - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
1506	Integrated Building Design, Com, E - TotF (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
1507	Integrated Building Design, Com, E - TotF (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
1508	Commissioning, Com, E - TotF (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.354	0.339	0.375
1509	Commissioning, Com, E - TotF (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
1510	RCx, Com, E - TotF (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
1511	RCx, Com, E - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
1512	RCx, Com, G - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.010	0.015	0.020	0.025	0.031	0.031	0.031	0.031	0.032	0.032
1513	Data Center, Com, E - TotF (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.025	0.046	0.085	0.153	0.238	0.313	0.373	0.427	0.477	0.527
1514	Data Center, Com, E - TotF (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.020	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
1515	Data Center, Com, E - TotF (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.025	0.046	0.085	0.153	0.238	0.313	0.373	0.427	0.477	0.527
1516	Data Center, Com, E - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.020	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
1517	Data Center, Com, G - TotF (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.025	0.046	0.084	0.154	0.239	0.313	0.374	0.427	0.476	0.525
1518	Data Center, Com, G - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.020	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
1519	Pneumatic to DDC, Com, E - TotF (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
1520	Pneumatic to DDC, Com, E - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
1521	Pneumatic to DDC, Com, G - TotF (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
1522	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Education	NC	Y	0.180	0.191	0.211	0.236	0.252	0.236	0.189	0.094	0.048	0.000
1523	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Education	RET	Y	0.008	0.017	0.026	0.036	0.037	0.038	0.038	0.038	0.041	0.045
1524	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Education	REPL	Y	0.180	0.194	0.210	0.227	0.238	0.218	0.169	0.082	0.043	0.000
1525	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I New Construction	Education	NC	Y	0.120	0.133	0.153	0.177	0.214	0.269	0.349	0.457	0.555	0.648
1526	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Education	RET	Y	0.000	0.000	0.001	0.002	0.005	0.012	0.019	0.026	0.032	0.035
1527	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Education	REPL	Y	0.120	0.138	0.161	0.188	0.210	0.218	0.189	0.094	0.048	0.000
1528	Computer Power Management, Com, E - Plug	C&I	C&I Retrofit	Education	RET	Y	0.010	0.019	0.029	0.037	0.044	0.048	0.050	0.052	0.056	0.061
1529	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Education	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
1530	Vending Machine Controls, Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Education	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
1531	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1532	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1533	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	N	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1534	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1535	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1536	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
1537	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
1538	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
1539	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
1540	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
1541	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Education	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
1542	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
1543	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Education	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
1544	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
1545	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
1546	Kitchen DCV, Com, G - Heat (Building w Elec Heat)	C&I	C&I New Construction	Education	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
1547	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Education	RET	Y	0.020	0.028	0.035	0.038	0.041	0.042	0.039	0.039	0.040	0.040
1548	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Education	REPL	Y	0.240	0.302	0.366	0.430	0.492	0.476	0.452	0.462	0.470	0.477
1549	VFD on HVAC System, Com, E - Vent	C&I	C&I Retrofit	Education	RET	Y	0.040	0.049	0.057	0.061	0.067	0.074	0.074	0.075	0.076	0.077
1550	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Education	RET	Y	0.016	0.022	0.032	0.048	0.066	0.071	0.074	0.075	0.076	0.077
1551	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Education	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
1552	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Education	RET	Y	0.005	0.009	0.012	0.016	0.021	0.025	0.029	0.036	0.038	0.039
1553	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Education	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.62

1615	LED Tube Repl. Com, E - Intl. (No Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
1616	LED Tube Repl. Com, E - Intl. (Electric Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
1617	LED Tube Repl. Com, E - Intl. (Electric Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
1618	LED Tube Repl. Com, E - Intl. (Electric Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
1619	LED Tube Repl. Com, E/G - Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.100	0.182	0.171	0.161	0.154	0.150	0.147	0.155	0.166	0.177
1620	LED Tube Repl. Com, E - Intl. (No Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1621	LED Tube Repl. Com, E - Intl. (No Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
1622	LED Tube Repl. Com, E - Intl. (No Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
1623	LED Tube Repl. Com, E - Intl. (Electric Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1624	LED Tube Repl. Com, E - Intl. (Electric Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
1625	LED Tube Repl. Com, E - Intl. (Electric Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
1626	LED Tube Repl. Com, E/G - Intl.	C&I	C&I New Construction	Grocery	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1627	LED Tube Repl. Com, E/G - Intl.	C&I	C&I Retrofit	Grocery	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
1628	LED Tube Repl. Com, E/G - Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
1629	Repl. Scre. Com, E - Intl. (No Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1630	Repl. Scre. Com, E - Intl. (No Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1631	Repl. Scre. Com, E - Intl. (No Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1632	Repl. Scre. Com, E - Intl. (Electric Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1633	Repl. Scre. Com, E - Intl. (Electric Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1634	Repl. Scre. Com, E - Intl. (Electric Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1635	Repl. Scre. Com, E/G - Intl.	C&I	C&I New Construction	Grocery	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1636	Repl. Scre. Com, E/G - Intl.	C&I	C&I Retrofit	Grocery	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1637	Repl. Scre. Com, E/G - Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1638	LED Hilo Bay, Com, E - Intl. (No Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1639	LED Hilo Bay, Com, E - Intl. (No Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
1640	LED Hilo Bay, Com, E - Intl. (No Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
1641	LED Hilo Bay, Com, E - Intl. (Electric Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1642	LED Hilo Bay, Com, E - Intl. (Electric Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
1643	LED Hilo Bay, Com, E - Intl. (Electric Heat)	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
1644	LED Hilo Bay, Com, E/G - Intl.	C&I	C&I New Construction	Grocery	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1645	LED Hilo Bay, Com, E/G - Intl.	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
1646	LED Hilo Bay, Com, E/G - Intl.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
1647	Exit Sign RefFit. Com, E - Intl. (No Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
1648	Exit Sign RefFit. Com, E - Intl. (Electric Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
1649	Exit Sign RefFit. Com, E/G - Intl.	C&I	C&I Retrofit	Grocery	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
1650	Int Ltg Ctrls. Com, E - Intl. (No Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
1651	Int Ltg Ctrls. Com, E - Intl. (Electric Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
1652	Int Ltg Ctrls. Com, E/G - Intl.	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
1653	Ext Ltg Dsgn. Com, E - Ext.	C&I	C&I New Construction	Grocery	NC	Y	0.030	0.029	0.038	0.038	0.047	0.047	0.047	0.047	0.047	0.047
1654	Ext Ltg Ctrls. Com, E - Ext.	C&I	C&I Retrofit	Grocery	RET	Y	0.050	0.058	0.062	0.060	0.055	0.049	0.047	0.047	0.047	0.048
1655	Street Ltg. Com, E - Ext.	C&I	C&I New Construction	Grocery	NC	Y	0.440	0.468	0.519	0.540	0.570	0.598	0.614	0.622	0.625	0.626
1656	Street Ltg. Com, E - Ext.	C&I	C&I Retrofit	Grocery	RET	Y	0.030	0.030	0.036	0.040	0.050	0.049	0.045	0.048	0.049	0.051
1657	Street Ltg. Com, E - Ext.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.440	0.459	0.493	0.487	0.479	0.463	0.434	0.449	0.461	0.472
1658	Ext Area Ltg. Com, E - Ext.	C&I	C&I New Construction	Grocery	NC	Y	0.612	0.595	0.607	0.611	0.612	0.612	0.612	0.611	0.610	0.610
1659	Ext Area Ltg. Com, E - Ext.	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.025	0.030	0.035	0.038	0.036	0.034	0.038	0.041	0.045
1660	Ext Area Ltg. Com, E - Ext.	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.612	0.591	0.586	0.568	0.542	0.515	0.486	0.531	0.578	0.625
1661	Minisplit Ductless HP, Com, E - Cool	C&I	C&I Retrofit	Grocery	RET	Y	0.003	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
1662	Minisplit Ductless HP, Com, E - Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.025	0.021	0.031	0.043	0.059	0.072	0.093	0.109	0.126	0.141
1663	Minisplit Ductless HP, Com, E - Heat	C&I	C&I Retrofit	Grocery	RET	Y	0.003	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
1664	Minisplit Ductless HP, Com, E - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.593	0.586	0.575
1665	PTHP, Com, E - Cool	C&I	C&I New Construction	Grocery	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
1666	PTHP, Com, E - Cool	C&I	C&I Retrofit	Grocery	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
1667	PTHP, Com, E - Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
1668	PTHP, Com, E - Heat	C&I	C&I New Construction	Grocery	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
1669	PTHP, Com, E - Heat	C&I	C&I Retrofit	Grocery	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
1670	PTHP, Com, E - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
1671	Unitary HP, Com, E - Cool	C&I	C&I New Construction	Grocery	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
1672	Unitary HP, Com, E - Cool	C&I	C&I Retrofit	Grocery	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
1673	Unitary HP, Com, E - Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
1674	Unitary HP, Com, E - Heat	C&I	C&I New Construction	Grocery	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
1675	Unitary HP, Com, E - Heat	C&I	C&I Retrofit	Grocery	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
1676	Unitary HP, Com, E - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
1677	Com GSHp, Com, E - Cool	C&I	C&I Retrofit	Grocery	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
1678	Com GSHp, Com, E - Cool	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
1679	Com GSHp, Com, E - Heat	C&I	C&I Retrofit	Grocery	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
1680	Com GSHp, Com, E - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
1681	Cool Roof, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.009	0.010	0.016	0.025	0.030	0.029	0.028	0.029	0.028	0.028
1682	Cool Roof, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
1683	Cool Roof, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
1684	Cool Roof, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
1685	Cool Roof, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
1686	Cool Roof, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
1687	Cool Roof, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.009	0.010	0.016	0.025	0.030	0.029	0.028	0.029	0.028	0.028
1688	Cool Roof, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	N	0.005	0.016	0.032	0.055	0.079					

1750	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Grocery	NC	Y	0.090	0.108	0.131	0.157	0.190	0.231	0.279	0.329	0.378	0.424
1751	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Grocery	REPL	Y	0.015	0.018	0.021	0.025	0.029	0.034	0.037	0.039	0.039	0.038
1752	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.090	0.108	0.130	0.153	0.180	0.212	0.245	0.274	0.295	0.305
1753	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Grocery	NC	N	0.534	0.542	0.580	0.621	0.668	0.717	0.761	0.803	0.843	0.875
1754	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Grocery	REPL	N	0.045	0.043	0.046	0.051	0.053	0.051	0.048	0.050	0.059	0.063
1755	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Grocery	REPL	N	0.540	0.504	0.496	0.486	0.468	0.437	0.398	0.427	0.455	0.483
1756	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Grocery	NC	N	0.060	0.080	0.103	0.131	0.164	0.204	0.251	0.301	0.317	0.328
1757	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Grocery	RET	N	0.006	0.008	0.012	0.016	0.023	0.030	0.036	0.041	0.040	0.038
1758	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Grocery	REPL	N	0.060	0.082	0.106	0.133	0.164	0.199	0.236	0.270	0.270	0.264
1759	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Grocery	NC	Y	0.350	0.390	0.450	0.518	0.590	0.680	0.803	0.903	0.993	1.092
1760	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Grocery	REPL	Y	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
1761	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.350	0.384	0.428	0.467	0.493	0.460	0.420	0.390	0.359	0.327
1762	Clothes Dryer, Com, G - Oth	C&I	C&I New Construction	Grocery	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.603	0.601	0.600
1763	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Grocery	RET	N	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
1764	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.350	0.384	0.427	0.468	0.495	0.461	0.420	0.390	0.358	0.326
1765	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
1766	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.520	0.544	0.586	0.643	0.703	0.729	0.742	0.751	0.758	0.765
1767	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.680	0.679	0.717	0.742	0.756	0.765	0.764	0.764	0.763	0.762
1768	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.063	0.053	0.051
1769	Case Night Covers, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.008	0.011	0.015	0.020	0.025	0.032	0.038	0.044	0.050	0.056
1770	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	N	0.125	0.192	0.326	0.460	0.585	0.649	0.672	0.679	0.678	0.678
1771	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.015	0.025	0.045	0.064	0.077	0.082	0.084	0.084	0.085	0.086
1772	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.523	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
1773	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Grocery	REPL	Y	0.040	0.050	0.058	0.063	0.065	0.059	0.054	0.064	0.073	0.082
1774	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.520	0.493	0.492	0.491	0.477	0.435	0.384	0.447	0.510	0.575
1775	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
1776	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.040	0.049	0.056	0.059	0.060	0.052	0.047	0.049	0.051	0.053
1777	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.520	0.487	0.480	0.473	0.455	0.421	0.378	0.387	0.389	0.391
1778	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
1779	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.084	0.085	0.085
1780	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.030	0.048	0.068	0.087	0.109	0.132	0.160	0.191	0.226	0.264
1781	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.000	0.000	0.002	0.006	0.013	0.023	0.033	0.042	0.050	0.056
1782	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.630	0.627	0.658	0.697	0.738	0.750	0.753	0.754	0.753	0.753
1783	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.630	0.654	0.692	0.740	0.792	0.813	0.825	0.834	0.842	0.850
1784	Walk In Refrigeration, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.450	0.471	0.514	0.563	0.621	0.640	0.651	0.656	0.658	0.658
1785	Refrigeration Tune Up, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.025	0.023	0.042	0.053	0.065	0.077	0.078	0.078	0.079	0.080
1786	ES Ice Machine, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1787	ES Ice Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1788	Walk In Cooler Retrofit, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	Y	0.015	0.027	0.047	0.068	0.085	0.087	0.088	0.089	0.089	0.090
1789	HE Built Up Refrig, Com, E - Refr	C&I	C&I New Construction	Grocery	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1790	HE Built Up Refrig, Com, E - Refr	C&I	C&I Retrofit	Grocery	RET	N	0.003	0.004	0.005	0.007	0.009	0.011	0.013	0.015	0.017	0.019
1791	Ovens, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.283	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1792	Ovens, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1793	Ovens, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1794	Ovens, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1795	Fryers, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1796	Fryers, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1797	Fryers, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.458	0.561	0.577	0.587	0.590	0.591	0.590
1798	Fryers, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1799	Steamers, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1800	Steamers, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1801	Steamers, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1802	Steamers, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1803	Griddles, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1804	Griddles, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1805	Griddles, Com, G - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
1806	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
1807	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Grocery	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
1808	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
1809	Motors, Com, E - Oth	C&I	C&I New Construction	Grocery	NC	Y	0.638	0.638	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
1810	Motors, Com, E - Oth	C&I	C&I Retrofit	Grocery	RET	Y	0.015	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
1811	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
1812	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Grocery	RET	Y	0.013	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
1813	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Grocery	RET	Y	0.040	0.050	0.058	0.066	0.074	0.083	0.084	0.084	0.085	0.086
1814	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
1815	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
1816	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
1817	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
1818	EMS, Com, G - TotG (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.375
1819	EMS, Com, G - TotG (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
1820	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
1821	Deep Energy Retrofit, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
1822	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.127	0.166	0.219	0.287	0.341	0.417	0.501	0.592	0.693	0.801
1823	Integrated Building Design, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
1824	Commissioning															

1885	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.240	0.241	0.246	0.249	0.249	0.243	0.232	0.217	0.215	0.211
1886	Furnace, Com, G - Heat	C&I	C&I New Construction	Grocery	NC	Y	0.810	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
1887	Furnace, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	N	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.007	0.008	0.008
1888	Furnace, Com, G - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.850	0.860	0.860	0.863	0.863	0.862	0.860	0.857	0.854	0.851
1889	Boilers, Com, G - Heat	C&I	C&I New Construction	Grocery	NC	Y	0.810	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
1890	Boilers, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	N	0.038	0.036	0.036	0.036	0.037	0.036	0.035	0.033	0.031	0.029
1891	Boilers, Com, G - Heat	C&I	C&I Equipment Replacement	Grocery	REPL	Y	0.810	0.789	0.755	0.721	0.683	0.643	0.600	0.555	0.508	0.460
1892	Boiler Modifications, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	Y	0.010	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.059
1893	Boiler Blowdown Controls, Com, G - Heat	C&I	C&I Retrofit	Grocery	RET	N	0.005	0.008	0.011	0.014	0.017	0.021	0.025	0.030	0.034	0.038
1894	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.140	0.254	0.381	0.518	0.664	0.675	0.678	0.678	0.678	0.678
1895	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
1896	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.140	0.254	0.381	0.518	0.664	0.675	0.678	0.678	0.678	0.678
1897	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
1898	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.120	0.221	0.340	0.485	0.646	0.669	0.677	0.678	0.678	0.678
1899	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
1900	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.120	0.221	0.340	0.487	0.649	0.671	0.677	0.678	0.677	0.675
1901	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.040	0.051	0.066	0.087	0.094	0.097	0.098	0.099	0.100	0.100
1902	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
1903	Programmable TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
1904	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.600	0.560	0.486	0.339	0.199	0.122	0.094	0.085	0.085	0.085
1905	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.020	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1906	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Grocery	NC	Y	0.600	0.560	0.485	0.340	0.200	0.122	0.094	0.085	0.085	0.084
1907	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Grocery	RET	Y	0.010	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1908	Int Ltg Dsgn, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1909	Int Ltg Dsgn, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1910	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Hospital	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
1911	Int Delamping, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
1912	Int Delamping, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
1913	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
1914	Stair Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.015	0.015	0.025	0.043	0.059	0.067	0.708	0.716	0.716	0.715
1915	Stair Occ Sensor, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
1916	Stair Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
1917	Stair Occ Sensor, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
1918	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Hospital	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
1919	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
1920	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Hospital	NC	Y	0.150	0.275	0.380	0.512	0.650	0.721	0.747	0.754	0.753	0.753
1921	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.027	0.037	0.049	0.059	0.057	0.052	0.048	0.048	0.049
1922	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.150	0.272	0.348	0.465	0.546	0.550	0.511	0.454	0.444	0.433
1923	Refrig Case Crls, Com, E - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.029	0.040	0.056	0.075	0.080	0.082	0.083	0.084	0.085
1924	Repl pin CFL wLED, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
1925	Repl pin CFL wLED, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
1926	Repl pin CFL wLED, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
1927	Repl pin CFL wLED, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
1928	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
1929	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
1930	LED Tube Repl, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
1931	LED Tube Repl, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
1932	LED Tube Repl, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.015	0.048	0.065	0.083	0.103	0.121	0.141	0.161	0.181	0.200
1933	LED Tube Repl, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
1934	LED Tube Repl, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.048	0.054	0.043	0.033	0.024	0.015	0.016	0.009	0.009
1935	LED Tube Repl, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.100	0.182	0.171	0.161	0.154	0.150	0.147	0.155	0.166	0.177
1936	Lin LED Fixture, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1937	Lin LED Fixture, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
1938	Lin LED Fixture, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744	
1939	Lin LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.117	0.090	0.117	0.130	0.143	0.154	0.169	0.184	0.199	0.214
1940	Lin LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
1941	Lin LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
1942	Lin LED Fixture, Com, E/G - Intl	C&I	C&I New Construction	Hospital	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
1943	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
1944	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
1945	Repl Scre, Com, E - Intl [No Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1946	Repl Scre, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1947	Repl Scre, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1948	Repl Scre, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Hospital	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1949	Repl Scre, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1950	Repl Scre, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1951	Repl Scre, Com, E - Intl	C&I	C&I New Construction	Hospital	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1952	Repl Scre, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1953	Repl Scre, Com, E/G - Intl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1954	Exit Sign Reflx, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	N	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
1955	Exit Sign Reflx, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	N	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
1956	Exit Sign Reflx, Com, E/G - Intl	C&I	C&I Retrofit	Hospital	RET	N	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
1957	Int Ltg Crls, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.024	0.024	0.024	0.033	0.039	0.045	0.049	0.054	0.059	0.064
1958	Int Ltg Crls, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	

2020	Minisplit Ductless AC, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.596	0.590	0.581
2021	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I New Construction	Hospital	NC	Y	0.563	0.562	0.587	0.614	0.644	0.669	0.691	0.712	0.732	0.753
2022	Computer Room Air Conditioner, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.563	0.586	0.618	0.653	0.691	0.726	0.757	0.788	0.819	0.850
2023	Chiller Tuning, Com, E - Cool	C&I	C&I Retrofit	Hospital	RET	N	0.064	0.064	0.068	0.070	0.072	0.065	0.063	0.063	0.063	0.063
2024	Chiller Systems, Com, E - Cool	C&I	C&I New Construction	Hospital	NC	Y	0.720	0.721	0.755	0.781	0.803	0.803	0.802	0.801	0.802	0.800
2025	Chiller Systems, Com, E - Cool	C&I	C&I Retrofit	Hospital	RET	N	0.027	0.039	0.059	0.070	0.069	0.063	0.056	0.050	0.045	0.040
2026	Chiller Systems, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.720	0.698	0.684	0.641	0.580	0.499	0.416	0.331	0.244	0.156
2027	Room AC, Com, E - Cool	C&I	C&I New Construction	Hospital	NC	Y	0.240	0.321	0.451	0.575	0.676	0.765	0.764	0.764	0.763	0.770
2028	Room AC, Com, E - Cool	C&I	C&I Retrofit	Hospital	RET	Y	0.120	0.112	0.075	0.043	0.043	0.050	0.052	0.052	0.053	0.053
2029	Room AC, Com, E - Cool	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.240	0.252	0.313	0.367	0.556	0.772	0.837	0.845	0.853	0.861
2030	Com ES Dehumidifier, Com, E - Appl	C&I	C&I New Construction	Hospital	NC	Y	0.240	0.254	0.288	0.339	0.409	0.477	0.536	0.519	0.525	0.537
2031	Com ES Dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.240	0.265	0.303	0.361	0.439	0.517	0.554	0.575	0.587	0.595
2032	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2033	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2034	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2035	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2036	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2037	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2038	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2039	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2040	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2041	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2042	Clothes Washer Gas WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2043	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
2044	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2045	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2046	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2047	Clothes Washer Gas WH, Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
2048	Clothes Washer Gas WH, Com, E - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2049	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
2050	Ozone Laundry, Com, E - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.064
2051	Ozone Laundry, Com, E - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.064
2052	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Hospital	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2053	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2054	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Hospital	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2055	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2056	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Hospital	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2057	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2058	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I New Construction	Hospital	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
2059	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
2060	Com Faucet Aerator, Com, E - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.054	0.066	0.072	0.077	0.074	0.073	0.073	0.074	0.074
2061	Com Faucet Aerator, Com, G - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.049	0.057	0.063	0.069	0.067	0.066	0.067	0.067	0.068
2062	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Hospital	NC	Y	0.090	0.108	0.131	0.157	0.190	0.231	0.279	0.329	0.378	0.424
2063	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Hospital	RET	Y	0.015	0.018	0.021	0.025	0.029	0.034	0.037	0.039	0.039	0.038
2064	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.090	0.108	0.130	0.153	0.180	0.212	0.245	0.274	0.295	0.305
2065	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Hospital	NC	N	0.540	0.534	0.552	0.580	0.608	0.627	0.641	0.653	0.664	0.675
2066	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Hospital	RET	N	0.045	0.043	0.046	0.051	0.053	0.051	0.048	0.053	0.059	0.063
2067	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.540	0.540	0.549	0.568	0.586	0.600	0.614	0.628	0.641	0.648
2068	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Hospital	NC	N	0.060	0.080	0.103	0.131	0.164	0.204	0.251	0.301	0.317	0.328
2069	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Hospital	RET	N	0.006	0.008	0.012	0.016	0.023	0.030	0.036	0.041	0.040	0.038
2070	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Hospital	REPL	N	0.060	0.082	0.106	0.133	0.164	0.199	0.236	0.270	0.270	0.264
2071	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.603	0.603	0.602
2072	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Hospital	RET	Y	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
2073	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.384	0.428	0.467	0.493	0.460	0.420	0.390	0.329	0.274
2074	Clothes Dryer, Com, E - Oth	C&I	C&I New Construction	Hospital	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2075	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Hospital	RET	N	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
2076	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.350	0.384	0.427	0.468	0.495	0.461	0.420	0.390	0.358	0.326
2077	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
2078	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.520	0.544	0.586	0.643	0.703	0.729	0.742	0.751	0.758	0.765
2079	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	0.680	0.699	0.717	0.762	0.756	0.765	0.764	0.763	0.763	0.763
2080	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.040	0.049	0.057	0.063	0.069	0.067	0.066	0.067	0.067	0.068
2081	Case Night Covers, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.008	0.011	0.015	0.020	0.025	0.032	0.038	0.044	0.050	0.056
2082	Loading Dock Pt Seals, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	N	0.125	0.192	0.326	0.460	0.585	0.649	0.672	0.679	0.678	0.678
2083	Loading Dock Pt Seals, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.015	0.025	0.045	0.064	0.077	0.082	0.084	0.084	0.085	0.086
2084	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
2085	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.040	0.050	0.058	0.063	0.065	0.059	0.054	0.064	0.073	0.082
2086	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
2087	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
2088	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.049	0.056	0.059	0.060	0.052	0.047	0.049	0.051	0.053
2089	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.520	0.487	0.480	0.473	0.455	0.421	0.378	0.387	0.389	0.391
2090	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
2091	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET	N	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.084	0.084	0.085
2092	LowHeat NoHeat Door, Com, E - Refr	C&I	C&I New Construction	Hospital	NC	Y	0.040	0.049	0.057	0.063	0.069	0.067	0.066	0.067	0.067	0.068
2093	LowHeat NoHeat Door, Com, E - Refr	C&I	C&I Retrofit	Hospital	RET											

2155	Power Strip, Com, E- Plug (Tier 2)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.120	0.138	0.160	0.188	0.230	0.292	0.381	0.498	0.612	0.717
2156	Computer Power Management, Com, E- Plug	C&I	C&I Retrofit	Hospital	RET	Y	0.010	0.019	0.029	0.037	0.044	0.048	0.050	0.052	0.056	0.061
2157	Vending Machine Controls, Com, E- Plug (Non-Refrigerated)	C&I	C&I Retrofit	Hospital	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
2158	Vending Machine Controls, Com, E- Plug (Refrigerated)	C&I	C&I Retrofit	Hospital	RET	Y	0.001	0.003	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
2159	Duct Sealing Regulated, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2160	Duct Sealing Regulated, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2161	Duct Sealing Regulated, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2162	Duct Sealing Regulated, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2163	Duct Sealing Regulated, Com, E- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2164	Duct Sealing Regulated, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2165	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.240	0.305	0.382	0.465	0.559	0.676	0.886	0.991	0.992	0.593
2166	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2167	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
2168	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.240	0.305	0.382	0.465	0.559	0.676	0.886	0.991	0.992	0.593
2169	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2170	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
2171	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.240	0.305	0.382	0.465	0.559	0.676	0.886	0.991	0.992	0.593
2172	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2173	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
2174	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.240	0.305	0.381	0.466	0.561	0.677	0.887	0.990	0.991	0.590
2175	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.028	0.035	0.038	0.041	0.042	0.039	0.039	0.040	0.040
2176	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.240	0.302	0.366	0.430	0.492	0.476	0.452	0.462	0.470	0.477
2177	VFD on HVAC system, Com, E- Vent	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.048	0.057	0.061	0.067	0.074	0.074	0.075	0.076	0.077
2178	ECM Furnace Motors, Com, E- Vent	C&I	C&I Retrofit	Hospital	RET	Y	0.016	0.022	0.032	0.048	0.066	0.071	0.074	0.075	0.076	0.077
2179	Motors and Fans, Com, E- Vent	C&I	C&I New Construction	Hospital	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
2180	Motors and Fans, Com, E- Vent	C&I	C&I Retrofit	Hospital	RET	Y	0.005	0.009	0.012	0.016	0.020	0.025	0.028	0.030	0.028	0.026
2181	Motors and Fans, Com, E- Vent	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.605	0.558	0.530	0.502	0.476
2182	Window Film, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2183	Window Film, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2184	Window Film, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2185	Window Film, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2186	Windows, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
2187	Windows, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
2188	Windows, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
2189	Windows, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	N	0.180	0.210	0.264	0.352	0.473	0.547	0.592	0.613	0.621	0.623
2190	Steam Trap Maintenance, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.049	0.059	0.073	0.080	0.085	0.087	0.088	0.089	0.090	0.090
2191	Forced Air Heating Maintenance, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.010	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.059
2192	Energy Recovery Ventilator, Com, G- Heat	C&I	C&I New Construction	Hospital	NC	Y	0.120	0.211	0.315	0.409	0.489	0.474	0.458	0.443	0.430	0.422
2193	Energy Recovery Ventilator, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.005	0.011	0.016	0.019	0.021	0.024	0.026	0.028	0.030	0.031
2194	Energy Recovery Ventilator, Com, G- Heat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.120	0.216	0.321	0.412	0.484	0.459	0.431	0.402	0.374	0.348
2195	Furnace, Com, G- Heat	C&I	C&I New Construction	Hospital	NC	Y	0.810	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
2196	Furnace, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.003	0.003	0.004	0.004	0.005	0.006	0.007	0.008	0.008	0.008
2197	Furnace, Com, G- Heat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.810	0.850	0.850	0.852	0.853	0.853	0.852	0.849	0.846	0.841
2198	Boilers, Com, G- Heat	C&I	C&I New Construction	Hospital	NC	Y	0.810	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
2199	Boilers, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.038	0.036	0.036	0.036	0.037	0.036	0.035	0.033	0.031	0.029
2200	Boilers, Com, G- Heat	C&I	C&I Equipment Replacement	Hospital	REPL	Y	0.810	0.789	0.755	0.721	0.683	0.643	0.600	0.555	0.508	0.460
2201	Boiler Modifications, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.030	0.034	0.038	0.022	0.028	0.035	0.042	0.048	0.054	0.059
2202	Boiler Blowdown Controls, Com, G- Heat	C&I	C&I Retrofit	Hospital	RET	Y	0.008	0.008	0.008	0.011	0.012	0.012	0.012	0.012	0.012	0.012
2203	Smart TStat, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.140	0.254	0.381	0.518	0.664	0.675	0.678	0.679	0.678	0.678
2204	Smart TStat, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
2205	Smart TStat, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.140	0.254	0.381	0.518	0.664	0.675	0.678	0.679	0.678	0.678
2206	Smart TStat, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
2207	Smart TStat, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.120	0.221	0.340	0.485	0.646	0.669	0.677	0.679	0.678	0.678
2208	Smart TStat, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.040	0.041	0.046	0.077	0.084	0.087	0.088	0.089	0.090	0.090
2209	Smart TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.120	0.221	0.340	0.487	0.649	0.671	0.677	0.679	0.677	0.675
2210	Smart TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.090
2211	Programmable TStat, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
2212	Programmable TStat, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
2213	Programmable TStat, Com, E- Cool (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.600	0.560	0.486	0.339	0.199	0.122	0.094	0.085	0.085	0.085
2214	Programmable TStat, Com, E- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
2215	Programmable TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Hospital	NC	Y	0.600	0.560	0.486	0.340	0.200	0.122	0.094	0.085	0.085	0.084
2216	Programmable TStat, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Hospital	RET	Y	0.020	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2217	Int Ltg Dsgn, Com, E- Intl (No Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2218	Int Ltg Dsgn, Com, E- Intl (Electric Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2219	Int Ltg Dsgn, Com, E/G- Intl	C&I	C&I New Construction	Food Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2220	Int Delamping, Com, E- Intl (No Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
2221	Int Delamping, Com, E- Intl (Electric Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
2222	Int Delamping, Com, E/G- Intl	C&I	C&I Retrofit	Food Service	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
2223	Stair Occ Sensor, Com, E- Intl (No Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
2224	Stair Occ Sensor, Com, E- Intl (No Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
2225	Stair Occ Sensor, Com, E- Intl (Electric Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
2226	Stair Occ Sensor, Com, E- Intl (Electric Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
2227	Stair Occ Sensor, Com, E/G- Intl	C&I	C&I New Construction	Food Service	NC	Y	0.115	0.045	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
2228	Stair Occ Sensor, Com, E/G- Intl	C&I	C&I Retrofit	Food Service	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063		

2290	PTHP ,Com, E - Cool	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2291	PTHP ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
2292	PTHP ,Com, E - Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
2293	PTHP ,Com, E - Heat	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2294	PTHP ,Com, E - Heat	C&I	C&I Retrofit	Food Service	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
2295	PTHP ,Com, E - Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
2296	Unitary HP ,Com, E - Cool	C&I	C&I New Construction	Food Service	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2297	Unitary HP ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
2298	Unitary HP ,Com, E - Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
2299	Unitary HP ,Com, E - Heat	C&I	C&I New Construction	Food Service	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2300	Unitary HP ,Com, E - Heat	C&I	C&I Retrofit	Food Service	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
2301	Unitary HP ,Com, E - Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
2302	Com GSHp ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
2303	Com GSHp ,Com, E - Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
2304	Com GSHp ,Com, E - Heat	C&I	C&I Retrofit	Food Service	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
2305	Com GSHp ,Com, E - Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
2306	Cool Roof ,Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Food Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2307	Cool Roof ,Com, E - Cool [Building w Elec Heat]	C&I	C&I Retrofit	Food Service	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2308	Cool Roof ,Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Food Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2309	Cool Roof ,Com, E - Heat [Building w Elec Heat]	C&I	C&I Retrofit	Food Service	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2310	Cool Roof ,Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Food Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2311	Cool Roof ,Com, E - Cool [Building w Gas Heat]	C&I	C&I Retrofit	Food Service	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2312	Cool Roof ,Com, E - Heat [Building w Gas Heat]	C&I	C&I New Construction	Food Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.677	0.675
2313	Cool Roof ,Com, G - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Food Service	RET	N	0.005	0.016	0.032	0.055	0.079	0.082	0.084	0.084	0.085	0.086
2314	Optimized Unitary AC Sys. ,Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Food Service	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2315	Optimized Unitary AC Sys. ,Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Food Service	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2316	Optimized Unitary AC Sys. ,Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Food Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2317	Optimized Unitary AC Sys. ,Com, E - Heat [Building w Gas Heat]	C&I	C&I New Construction	Food Service	NC	Y	0.325	0.417	0.523	0.634	0.644	0.652	0.656	0.658	0.657	0.656
2318	Controls for Unitary AC ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.004	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2319	AC Tuneup ,Com, E - Cool [ASHP]	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2320	AC Tuneup ,Com, E - Heat [ASHP]	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2321	AC Tuneup ,Com, E - Cool [Unitary AC]	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2322	Unitary Equipment Economizer ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.047	0.053	0.056	0.060	0.066	0.066	0.067	0.067	0.068
2323	PTAC ,Com, E - Cool	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2324	PTAC ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	Y	0.011	0.019	0.032	0.048	0.068	0.068	0.066	0.066	0.066	0.066
2325	PTAC ,Com, E - Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
2326	Eff Unitary AC ,Com, E - Cool	C&I	C&I New Construction	Food Service	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2327	Eff Unitary AC ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	N	0.008	0.012	0.020	0.034	0.048	0.049	0.047	0.048	0.050	0.051
2328	Eff Unitary AC ,Com, E - Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
2329	Minsplit Ductless AC ,Com, E - Cool	C&I	C&I New Construction	Food Service	NC	Y	0.120	0.218	0.323	0.435	0.559	0.576	0.586	0.591	0.592	0.593
2330	Minsplit Ductless AC ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	N	0.003	0.004	0.006	0.009	0.011	0.013	0.015	0.017	0.018	0.019
2331	Minsplit Ductless AC ,Com, E - Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.596	0.595	0.581
2332	Com Room AC ,Com, E - Cool	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.321	0.451	0.575	0.676	0.765	0.764	0.764	0.763	0.770
2333	Com Room AC ,Com, E - Cool	C&I	C&I Retrofit	Food Service	RET	N	0.120	0.112	0.075	0.043	0.043	0.050	0.052	0.052	0.053	0.053
2334	Com Room AC ,Com, E - Cool	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.252	0.313	0.367	0.556	0.772	0.837	0.845	0.853	0.861
2335	Com ES Dehumidifier ,Com, E - Appl	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.254	0.288	0.339	0.409	0.477	0.506	0.519	0.525	0.527
2336	Com ES Dehumidifier ,Com, E - Appl	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.265	0.303	0.361	0.439	0.517	0.554	0.575	0.587	0.595
2337	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2338	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2339	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2340	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2341	Clothes Washer Elec WH ,Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2342	Clothes Washer Elec WH ,Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2343	Clothes Washer WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2344	Clothes Washer WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2345	Clothes Washer Gas WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
2346	Clothes Washer Gas WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
2347	Clothes Washer Gas WH ,Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2348	Clothes Washer Gas WH ,Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.473	0.552	0.636	0.652	0.661	0.667	0.672	0.677
2349	Clothes Washer Gas WH ,Com, E - HWat [unit w/ gas dry - Washer]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2350	Clothes Washer Gas WH ,Com, E - HWat [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.473	0.552	0.636	0.652	0.661	0.667	0.672	0.677
2351	Clothes Washer Gas WH ,Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2352	Clothes Washer Gas WH ,Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
2353	Clothes Washer Gas WH ,Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Food Service	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
2354	Clothes Washer Gas WH ,Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
2355	Ozone Laundry ,Com, E - HWat	C&I	C&I Retrofit	Food Service	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.064
2356	Ozone Laundry ,Com, E - HWat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.016	0.026	0.046	0.060	0.076	0.080	0.082	0.083	0.083	0.084
2357	Dishwasher ,Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Food Service	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2358	Dishwasher ,Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2359	Dishwasher ,Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Food Service	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2360	Dishwasher ,Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2361	Dishwasher ,Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Food Service	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2362	Dishwasher ,Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669

2425	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
2426	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Food Service	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2427	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2428	Motors, Com, E - Oth	C&I	C&I New Construction	Food Service	NC	Y	0.619	0.619	0.619	0.619	0.599	0.595	0.599	0.595	0.595	0.594
2429	Motors, Com, E - Oth	C&I	C&I Retrofit	Food Service	RET	Y	0.005	0.009	0.012	0.015	0.021	0.025	0.029	0.036	0.038	0.039
2430	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
2431	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Food Service	RET	Y	0.013	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
2432	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Food Service	RET	Y	0.040	0.050	0.058	0.066	0.074	0.083	0.084	0.084	0.085	0.086
2433	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
2434	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
2435	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
2436	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
2437	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.375
2438	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
2439	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
2440	Deep Energy Retrofit, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
2441	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
2442	Integrated Building Design, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
2443	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
2444	Commissioning, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
2445	RCC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
2446	RCC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
2447	RCC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.010	0.015	0.020	0.025	0.031	0.031	0.031	0.031	0.032	0.032
2448	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
2449	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
2450	Pneumatic to DDC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
2451	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Food Service	NC	Y	0.180	0.191	0.211	0.236	0.252	0.236	0.189	0.094	0.048	0.059
2452	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Food Service	RET	Y	0.008	0.017	0.026	0.036	0.037	0.038	0.038	0.038	0.041	0.045
2453	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.184	0.194	0.210	0.227	0.238	0.218	0.169	0.083	0.033	0.001
2454	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I New Construction	Food Service	NC	Y	0.120	0.133	0.153	0.178	0.214	0.269	0.349	0.457	0.555	0.648
2455	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Food Service	RET	Y	0.000	0.000	0.001	0.002	0.005	0.012	0.019	0.026	0.032	0.035
2456	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.120	0.138	0.160	0.188	0.230	0.292	0.381	0.498	0.612	0.717
2457	Computer Power Management, Com, E - Plug	C&I	C&I Retrofit	Food Service	RET	Y	0.010	0.019	0.029	0.037	0.044	0.048	0.050	0.052	0.056	0.061
2458	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Food Service	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
2459	Vending Machine Controls, Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Food Service	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
2460	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2461	Duct Sealing Regulated, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2462	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2463	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2464	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2465	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2466	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
2467	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2468	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
2469	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
2470	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2471	Kitchen DCV, Com, E - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
2472	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
2473	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2474	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
2475	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.305	0.381	0.466	0.561	0.577	0.587	0.590	0.591	0.590
2476	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	Y	0.020	0.028	0.035	0.038	0.041	0.042	0.039	0.039	0.040	0.040
2477	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.302	0.366	0.430	0.492	0.476	0.452	0.462	0.470	0.477
2478	VFD on HVAC system, Com, E - Vent	C&I	C&I Retrofit	Food Service	RET	Y	0.048	0.049	0.057	0.061	0.067	0.074	0.074	0.075	0.076	0.077
2479	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Food Service	RET	Y	0.016	0.022	0.032	0.048	0.066	0.071	0.077	0.077	0.077	0.077
2480	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Food Service	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
2481	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Food Service	RET	Y	0.005	0.009	0.012	0.016	0.020	0.025	0.028	0.030	0.028	0.026
2482	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.530	0.502	0.476
2483	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2484	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2485	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2486	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Food Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2487	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
2488	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Food Service	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
2489	Windows, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	N	0.180	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
2490	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Food Service	NC	N	0.180	0.210	0.264	0.352	0.473	0.547	0.592	0.613	0.621	0.623
2491	Steam Trap Maintenance, Com, G - Heat	C&I	C&I New Construction	Food Service	NC	Y	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.008
2492	Forced Air Heating Maintenance, Com, G - Heat	C&I	C&I Retrofit	Food Service	RET	N	0.010	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.059
2493	Destratification Fans, Com, G - Heat	C&I	C&I New Construction	Food Service	NC	N	0.030	0.058	0.087	0.117	0.149	0.184	0.224	0.236	0.250	0.262
2494	Destratification Fans, Com, G - Heat	C&I	C&I Retrofit	Food Service	RET	N	0.003	0.005	0.008	0.011	0.015	0.018	0.022	0.029	0.033	0.037
2495	Destratification Fans, Com, G - Heat	C&I	C&I Equipment Replacement	Food Service	REPL	N	0.030	0.060	0.090	0.121	0.153	0.187	0.224	0.261	0.279	0.296
2496	Unit Heater, Com, G - Heat	C&I	C&I New Construction	Food Service	NC	Y	0.240	0.299	0.248	0.265	0.277	0.292	0.304	0.313	0.321	0.328
2497	Unit Heater, Com, G - Heat	C&I	C&I Retrofit	Food Service	RET	Y	0.017	0.025	0.032	0.040	0.050	0.059	0.068	0.075	0.081	0.084
2498	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Food Service	REPL	Y	0.240	0.241								

2560	Repl Scre Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2561	Repl Scre Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2562	Repl Scre Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2563	Repl Scre Com, E/G - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2564	Repl Scre Com, E/G - Intl	C&I	C&I New Construction	Health Service	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2565	Repl Scre Com, E/G - Intl	C&I	C&I Retrofit	Health Service	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2566	Repl Scre Com, E/G - Intl	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2567	Exit Sign RetRf Com, E - Intl (No Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
2568	Exit Sign RetRf Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
2569	Exit Sign RetRf Com, E/G - Intl	C&I	C&I Retrofit	Health Service	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
2570	Int Ltg Cris Com, E - Intl (No Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
2571	Int Ltg Cris Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
2572	Int Ltg Cris Com, E/G - Intl	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
2573	Ext Ltg Dsgn Com, E - Extl	C&I	C&I New Construction	Health Service	NC	Y	0.030	0.029	0.038	0.038	0.047	0.047	0.047	0.047	0.047	0.047
2574	Ext Ltg Cris Com, E - Extl	C&I	C&I Retrofit	Health Service	RET	Y	0.050	0.058	0.062	0.060	0.055	0.049	0.047	0.047	0.047	0.048
2575	Street Ltg Com, E - Extl	C&I	C&I New Construction	Health Service	NC	Y	0.440	0.468	0.519	0.540	0.570	0.588	0.614	0.622	0.625	0.626
2576	Street Ltg Com, E - Extl	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.030	0.036	0.044	0.050	0.049	0.045	0.048	0.049	0.051
2577	Street Ltg Com, E - Extl	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.440	0.459	0.493	0.487	0.479	0.463	0.434	0.449	0.461	0.472
2578	Ext Area Ltg Com, E - Extl	C&I	C&I New Construction	Health Service	NC	Y	0.612	0.595	0.607	0.611	0.612	0.612	0.612	0.611	0.610	0.610
2579	Ext Area Ltg Com, E - Extl	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.025	0.030	0.035	0.038	0.036	0.034	0.038	0.041	0.045
2580	Ext Area Ltg Com, E - Extl	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.612	0.591	0.586	0.568	0.542	0.515	0.486	0.531	0.578	0.625
2581	Minisplit Ductless HP Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
2582	Minisplit Ductless HP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.225	0.235	0.335	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2583	Minisplit Ductless HP Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
2584	Minisplit Ductless HP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.593	0.586	0.575
2585	PTHP Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2586	PTHP Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
2587	PTHP Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
2588	PTHP Com, E - Heat	C&I	C&I New Construction	Health Service	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2589	PTHP Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
2590	PTHP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
2591	Unitary HP Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2592	Unitary HP Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
2593	Unitary HP Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
2594	Unitary HP Com, E - Heat	C&I	C&I New Construction	Health Service	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2595	Unitary HP Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
2596	Unitary HP Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
2597	Com GSHp Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
2598	Com GSHp Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
2599	Com GSHp Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
2600	Com GSHp Com, E - Heat	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
2601	Cool Roof Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2602	Cool Roof Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2603	Cool Roof Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2604	Cool Roof Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2605	Cool Roof Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2606	Cool Roof Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2607	Cool Roof Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2608	Cool Roof Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2609	Optimized Chiller Sys Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2610	Optimized Unitary AC Sys Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2611	Optimized Unitary AC Sys Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2612	Optimized Unitary AC Sys Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2613	Optimized Unitary AC Sys Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.417	0.523	0.634	0.644	0.652	0.656	0.658	0.657	0.656
2614	Controls for Unitary AC Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2615	DCV Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2616	DCV Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2617	DCV Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2618	DCV Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2619	DCV Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2620	DCV Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2621	AC Tuneup Com, E - Cool (ASHP)	C&I	C&I Retrofit	Health Service	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2622	AC Tuneup Com, E - Heat (ASHP)	C&I	C&I Retrofit	Health Service	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2623	AC Tuneup Com, E - Cool (Unitary AC)	C&I	C&I Retrofit	Health Service	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2624	Unitary Equipment Economizer Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	Y	0.040	0.047	0.053	0.056	0.060	0.066	0.066	0.067	0.067	0.068
2625	PTAC Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2626	PTAC Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.011	0.018	0.029	0.042	0.046	0.048	0.046	0.046	0.045	0.045
2627	PTAC Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.424	0.421	0.421
2628	Eff Unitary AC Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2629	Eff Unitary AC Com, E - Cool	C&I	C&I Retrofit	Health Service	RET	N	0.008	0.012	0.020	0.034	0.048	0.049	0.047	0.048	0.050	0.051
2630	Eff Unitary AC Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.569	0.576	0.582
2631	Minisplit Ductless AC Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y	0.120	0.218	0.323	0.435	0.559	0.576	0.586	0.591	0.592	0.593
2632	Minisplit Ductless AC Com, E - Heat	C&I	C&I Retrofit	Health Service	RET	Y	0.011	0.013	0.015	0.019	0.021	0.021	0.019	0.019	0.017	0.017
2633	Minisplit Ductless AC Com, E - Cool	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.596	0.590	0.581
2634	Computer Room Air Conditioner Com, E - Cool	C&I	C&I New Construction	Health Service	NC	Y										

2695	Refrigerated Vending Machine, Com, E- Refr	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.630	0.654	0.692	0.740	0.792	0.813	0.825	0.834	0.842	0.850
2696	Walk In Refrigeration, Com, E- Refr	C&I	C&I New Construction	Health Service	NC	Y	0.450	0.471	0.514	0.563	0.621	0.640	0.651	0.656	0.658	0.659
2697	Refrigeration Tune Up, Com, E- Refr	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.031	0.042	0.053	0.065	0.077	0.078	0.078	0.079	0.080
2698	ES Ice Machine, Com, E- Oth	C&I	C&I New Construction	Health Service	REPL	Y	0.283	0.298	0.328	0.368	0.419	0.438	0.449	0.456	0.459	0.461
2699	ES Ice Machine, Com, E- Refr	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2700	Walk In Cooler Retrofit, Com, E- Refr	C&I	C&I Retrofit	Health Service	RET	Y	0.015	0.027	0.047	0.068	0.085	0.087	0.088	0.089	0.089	0.090
2701	HE Built Up Refrig, Com, E/G- Refr	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2702	HE Built Up Refrig, Com, E/G- Refr	C&I	C&I Retrofit	Health Service	RET	N	0.003	0.004	0.005	0.007	0.009	0.011	0.013	0.015	0.017	0.019
2703	Motors, Com, E- Oth	C&I	C&I New Construction	Health Service	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
2704	Motors, Com, E- Oth	C&I	C&I Retrofit	Health Service	RET	Y	0.005	0.009	0.012	0.016	0.021	0.025	0.029	0.036	0.038	0.039
2705	Motors, Com, E- Oth	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.638	0.636	0.625	0.611	0.585	0.580	0.578	0.580	0.600	0.623
2706	ECM Circulators, Com, E- Oth	C&I	C&I Retrofit	Health Service	RET	Y	0.013	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
2707	VFDs on HVAC Pumps, Com, E- Oth	C&I	C&I Retrofit	Health Service	RET	Y	0.040	0.050	0.058	0.066	0.074	0.083	0.084	0.084	0.085	0.086
2708	EMS, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
2709	EMS, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
2710	EMS, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
2711	EMS, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051	0.051
2712	EMS, Com, G- TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.375
2713	EMS, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
2714	Deep Energy Retrofit, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
2715	Deep Energy Retrofit, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
2716	Integrated Building Design, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
2717	Integrated Building Design, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
2718	Commissioning, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
2719	Commissioning, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
2720	RxC, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
2721	RxC, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
2722	RxC, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
2723	Data Center, Com, E- TotE (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.045	0.046	0.056	0.113	0.238	0.313	0.373	0.427	0.477	0.527
2724	Data Center, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
2725	Data Center, Com, E- TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.025	0.046	0.085	0.153	0.238	0.313	0.373	0.427	0.477	0.527
2726	Data Center, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
2727	Data Center, Com, G- TotE (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.025	0.046	0.084	0.154	0.239	0.313	0.374	0.427	0.476	0.525
2728	Data Center, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
2729	Pneumatic to DDC, Com, E- TotE (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.004	0.004	0.002	0.002	0.004	0.004	0.004	0.007	0.009	0.009
2730	Pneumatic to DDC, Com, E- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
2731	Pneumatic to DDC, Com, G- TotE (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.059
2732	Power Strip, Com, E- Plug (Tier 1)	C&I	C&I New Construction	Health Service	NC	Y	0.180	0.191	0.211	0.236	0.252	0.236	0.189	0.094	0.048	0.000
2733	Power Strip, Com, E- Plug (Tier 1)	C&I	C&I Retrofit	Health Service	RET	Y	0.008	0.017	0.026	0.036	0.037	0.038	0.038	0.038	0.041	0.045
2734	Power Strip, Com, E- Plug (Tier 1)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.180	0.194	0.210	0.227	0.238	0.218	0.169	0.082	0.043	0.000
2735	Power Strip, Com, E- Plug (Tier 2)	C&I	C&I New Construction	Health Service	NC	Y	0.120	0.133	0.153	0.178	0.214	0.269	0.389	0.457	0.485	0.488
2736	Power Strip, Com, E- Plug (Tier 2)	C&I	C&I Retrofit	Health Service	RET	Y	0.005	0.006	0.007	0.008	0.005	0.012	0.019	0.026	0.032	0.035
2737	Power Strip, Com, E- Plug (Tier 2)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.120	0.138	0.160	0.188	0.230	0.292	0.381	0.498	0.612	0.717
2738	Computer Power Management, Com, E- Plug	C&I	C&I Retrofit	Health Service	RET	Y	0.010	0.019	0.029	0.037	0.044	0.048	0.050	0.052	0.056	0.061
2739	Vending Machine Controls, Com, E- Plug (Non-Refrigerated)	C&I	C&I Retrofit	Health Service	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
2740	Vending Machine Controls, Com, E- Plug (Refrigerated)	C&I	C&I Retrofit	Health Service	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
2741	Duct Sealing Regulated, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2742	Duct Sealing Regulated, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2743	Duct Sealing Regulated, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2744	Duct Sealing Regulated, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2745	Duct Sealing Regulated, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2746	Duct Sealing Regulated, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.003	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
2747	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
2748	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.028	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2749	Kitchen DCV, Com, E- Vent (Building w Elec Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.465	0.471	0.478
2750	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
2751	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2752	Kitchen DCV, Com, E- Heat (Building w Elec Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.465	0.471	0.478
2753	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.240	0.305	0.382	0.465	0.559	0.576	0.586	0.591	0.592	0.593
2754	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.028	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
2755	Kitchen DCV, Com, E- Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.240	0.302	0.367	0.429	0.490	0.475	0.452	0.465	0.471	0.478
2756	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I New Construction	Health Service	NC	Y	0.240	0.305	0.381	0.466	0.561	0.577	0.587	0.590	0.591	0.590
2757	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	Y	0.020	0.028	0.035	0.038	0.041	0.042	0.039	0.039	0.040	0.040
2758	Kitchen DCV, Com, G- Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.240	0.302	0.366	0.430	0.492	0.476	0.452	0.462	0.470	0.477
2759	VFD on HVAC System, Com, E- Vent	C&I	C&I Retrofit	Health Service	RET	Y	0.040	0.049	0.057	0.061	0.067	0.074	0.074	0.075	0.076	0.077
2760	ECM Furnace Motors, Com, E- Vent	C&I	C&I Retrofit	Health Service	RET	Y	0.016	0.022	0.032	0.048	0.066	0.071	0.074	0.075	0.076	0.077
2761	Motors and Fans, Com, E- Vent	C&I	C&I New Construction	Health Service	NC	Y	0.619	0.618	0.612	0.609	0.615	0.609	0.608	0.609	0.610	0.593
2762	Motors and Fans, Com, E- Vent	C&I	C&I Retrofit	Health Service	RET	Y	0.005	0.009	0.012	0.016	0.020	0.025	0.028	0.030	0.028	0.026
2763	Motors and Fans, Com, E- Vent	C&I	C&I Equipment Replacement	Health Service	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.530	0.502	0.476
2764	Window Film, Com, E- Cool (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2765	Window Film, Com, E- Heat (Building w Elec Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2766	Window Film, Com, E- Cool (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2767	Window Film, Com, E- Heat (Building w Gas Heat)	C&I	C&I Retrofit	Health Service	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
2768	Windows, Com, E- Cool (Building w Elec Heat)	C&I	C&I New Construction	Health Service												

2830	LED Tube Repl. Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
2831	LED Tube Repl. Com, E/G - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.040	0.048	0.054	0.063	0.033	0.024	0.015	0.016	0.009	0.009
2832	LED Tube Repl. Com, E/G - Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.100	0.182	0.171	0.161	0.154	0.150	0.147	0.155	0.166	0.177
2833	Lin LED Fixture, Com, E - Intl. [No Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.030	0.117	0.118	0.110	0.433	0.542	0.609	0.611	0.654	0.650
2834	Lin LED Fixture, Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
2835	Lin LED Fixture, Com, E - Intl. [No Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
2836	Lin LED Fixture, Com, E - Intl. [Electric Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
2837	Lin LED Fixture, Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
2838	Lin LED Fixture, Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
2839	Lin LED Fixture, Com, E/G - Intl.	C&I	C&I New Construction	Lodging	NC	Y	0.040	0.117	0.118	0.110	0.433	0.542	0.609	0.611	0.654	0.650
2840	Lin LED Fixture, Com, E/G - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
2841	Lin LED Fixture, Com, E/G - Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
2842	Repl. Scre. Com, E - Intl. [No Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2843	Repl. Scre. Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2844	Repl. Scre. Com, E - Intl. [No Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2845	Repl. Scre. Com, E - Intl. [Electric Heat]	C&I	C&I New Construction	Lodging	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2846	Repl. Scre. Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.119	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2847	Repl. Scre. Com, E - Intl. [Electric Heat]	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2848	Repl. Scre. Com, E/G - Intl.	C&I	C&I New Construction	Lodging	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2849	Repl. Scre. Com, E/G - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2850	Repl. Scre. Com, E/G - Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2851	Ext. Sign Refit. Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
2852	Ext. Sign Refit. Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.040	0.048	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
2853	Ext. Sign Refit. Com, E/G - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
2854	Int. Ltg. Ctrls. Com, E - Intl. [No Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
2855	Int. Ltg. Ctrls. Com, E - Intl. [Electric Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
2856	Int. Ltg. Ctrls. Com, E/G - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
2857	Ext. Ltg. Dsgn. Com, E - Intl.	C&I	C&I New Construction	Lodging	NC	Y	0.030	0.029	0.038	0.038	0.047	0.047	0.047	0.047	0.047	0.047
2858	Ext. Ltg. Ctrls. Com, E - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.048	0.048	0.062	0.060	0.055	0.048	0.047	0.047	0.047	0.048
2859	Street Ltg. Com, E - Intl.	C&I	C&I New Construction	Lodging	NC	Y	0.440	0.488	0.519	0.540	0.570	0.598	0.614	0.622	0.625	0.626
2860	Street Ltg. Com, E - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.025	0.030	0.036	0.044	0.050	0.049	0.045	0.048	0.049	0.051
2861	Street Ltg. Com, E - Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.440	0.459	0.493	0.487	0.479	0.463	0.434	0.449	0.461	0.472
2862	Ext. Area Ltg. Com, E - Intl.	C&I	C&I New Construction	Lodging	NC	Y	0.612	0.595	0.607	0.611	0.612	0.612	0.612	0.611	0.610	0.610
2863	Ext. Area Ltg. Com, E - Intl.	C&I	C&I Retrofit	Lodging	RET	Y	0.020	0.025	0.030	0.035	0.038	0.036	0.034	0.038	0.041	0.045
2864	Ext. Area Ltg. Com, E - Intl.	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.612	0.591	0.596	0.598	0.542	0.515	0.486	0.531	0.578	0.621
2865	Minisplit Ductless HP Com, E - Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.003	0.004	0.005	0.009	0.011	0.013	0.015	0.017	0.019	0.020
2866	Minisplit Ductless HP Com, E - Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.593	0.586	0.575
2867	Minisplit Ductless HP Com, E - Heat	C&I	C&I Retrofit	Lodging	RET	Y	0.003	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
2868	Minisplit Ductless HP Com, E - Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.120	0.225	0.335	0.452	0.579	0.593	0.597	0.593	0.586	0.575
2869	PTHP Com, E - Cool	C&I	C&I New Construction	Lodging	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2870	PTHP Com, E - Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
2871	PTHP Com, E - Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
2872	PTHP Com, E - Heat	C&I	C&I New Construction	Lodging	NC	Y	0.240	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
2873	PTHP Com, E - Heat	C&I	C&I Retrofit	Lodging	RET	Y	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
2874	PTHP Com, E - Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.240	0.296	0.356	0.412	0.464	0.449	0.425	0.460	0.494	0.528
2875	Unitary HP Com, E - Cool	C&I	C&I New Construction	Lodging	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2876	Unitary HP Com, E - Cool	C&I	C&I Retrofit	Lodging	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
2877	Unitary HP Com, E - Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2878	Unitary HP Com, E - Heat	C&I	C&I New Construction	Lodging	NC	Y	0.488	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
2879	Unitary HP Com, E - Heat	C&I	C&I Retrofit	Lodging	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
2880	Unitary HP Com, E - Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.488	0.517	0.561	0.607	0.636	0.606	0.562	0.596	0.629	0.663
2881	Com GSHP Com, E - Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
2882	Com GSHP Com, E - Cool	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
2883	Com GSHP Com, E - Heat	C&I	C&I Retrofit	Lodging	RET	Y	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
2884	Com GSHP Com, E - Heat	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
2885	Cool Roof. Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2886	Cool Roof. Com, E - Cool [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2887	Cool Roof. Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2888	Cool Roof. Com, E - Heat [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2889	Cool Roof. Com, E - Heat [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
2890	Cool Roof. Com, E - Cool [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
2891	Cool Roof. Com, E - Heat [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	N	0.005	0.029	0.108	0.295	0.552	0.639	0.670	0.678	0.677	0.675
2892	Cool Roof. Com, E - Heat [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	N	0.005	0.016	0.032	0.055	0.079	0.082	0.084	0.084	0.085	0.086
2893	Optimized Unitary AC Sys. Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2894	Optimized Unitary AC Sys. Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Lodging	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2895	Optimized Unitary AC Sys. Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2896	Optimized Unitary AC Sys. Com, E - Heat [Building w Gas Heat]	C&I	C&I New Construction	Lodging	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
2897	Controls for Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Lodging	RET	Y	0.040	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.077
2898	DCV Com, E - Cool [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2899	DCV Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Lodging	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2900	DCV Com, E - Vent [Building w Elec Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2901	DCV Com, E - Cool [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2902	DCV Com, G - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
2903	DCV Com, E - Vent [Building w Gas Heat]	C&I	C&I Retrofit	Lodging	RET	Y	0.030	0.041	0.052	0.060	0.067	0.075	0.075	0.0		

2965	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Lodging	RET	N	0.006	0.008	0.012	0.016	0.023	0.030	0.036	0.041	0.040	0.038
2966	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Lodging	REPL	N	0.060	0.082	0.106	0.133	0.164	0.199	0.236	0.270	0.270	0.264
2967	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Lodging	NC	Y	0.350	0.390	0.450	0.518	0.590	0.660	0.603	0.603	0.603	0.602
2968	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Lodging	RET	N	0.014	0.018	0.022	0.026	0.031	0.036	0.043	0.046	0.046	0.045
2969	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.350	0.384	0.428	0.467	0.493	0.460	0.420	0.390	0.359	0.327
2970	Clothes Dryer, Com, G - Oth	C&I	C&I New Construction	Lodging	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.603	0.601	0.600
2971	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Lodging	RET	N	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
2972	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.350	0.384	0.427	0.468	0.495	0.461	0.420	0.390	0.358	0.326
2973	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
2974	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.520	0.544	0.586	0.643	0.703	0.729	0.742	0.751	0.738	0.705
2975	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.080	0.079	0.177	0.242	0.266	0.266	0.264	0.264	0.263	0.262
2976	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	N	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.063	0.053	0.053
2977	Loading Dock Pt Seals, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	N	0.125	0.192	0.326	0.460	0.585	0.649	0.672	0.679	0.678	0.678
2978	Loading Dock Pt Seals, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	N	0.015	0.025	0.045	0.064	0.077	0.082	0.084	0.084	0.085	0.086
2979	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
2980	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	N	0.040	0.050	0.058	0.063	0.065	0.059	0.054	0.064	0.073	0.082
2981	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.480	0.493	0.492	0.491	0.477	0.415	0.384	0.447	0.510	0.575
2982	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
2983	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	Y	0.040	0.049	0.056	0.059	0.060	0.052	0.047	0.049	0.051	0.051
2984	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.520	0.487	0.480	0.473	0.455	0.421	0.378	0.387	0.389	0.391
2985	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
2986	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	Y	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.083	0.084	0.085
2987	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.000	0.048	0.068	0.087	0.109	0.112	0.160	0.191	0.226	0.264
2988	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	Y	0.000	0.000	0.002	0.006	0.013	0.023	0.033	0.042	0.050	0.056
2989	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.630	0.627	0.658	0.697	0.738	0.750	0.753	0.754	0.753	0.753
2990	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.630	0.654	0.692	0.740	0.792	0.813	0.825	0.834	0.842	0.850
2991	Walk In Refrigeration, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.450	0.471	0.514	0.563	0.621	0.640	0.651	0.656	0.658	0.659
2992	Refrigeration Tune Up, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	Y	0.020	0.031	0.042	0.053	0.065	0.077	0.078	0.078	0.079	0.080
2993	ES Ice Machine, Com, E - Refr	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2994	ES Ice Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2995	Walk In Cooler Retrofit, Com, E - Refr	C&I	C&I Retrofit	Lodging	RET	Y	0.015	0.027	0.047	0.068	0.085	0.087	0.088	0.089	0.089	0.090
2996	Ovens, Com, E - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
2997	Ovens, Com, E - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
2998	Ovens, Com, G - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
2999	Ovens, Com, G - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
3000	Fryers, Com, E - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3001	Fryers, Com, E - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3002	Fryers, Com, G - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
3003	Fryers, Com, G - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
3004	Steamers, Com, E - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3005	Steamers, Com, E - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3006	Steamers, Com, G - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
3007	Steamers, Com, G - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
3008	Griddles, Com, E - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3009	Griddles, Com, E - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3010	Griddles, Com, G - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.459	0.561	0.577	0.587	0.590	0.591	0.590
3011	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
3012	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Lodging	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3013	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3014	Motors, Com, E - Oth	C&I	C&I New Construction	Lodging	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
3015	Motors, Com, E - Oth	C&I	C&I Retrofit	Lodging	RET	Y	0.005	0.009	0.012	0.016	0.021	0.025	0.029	0.036	0.038	0.039
3016	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Lodging	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
3017	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Lodging	RET	Y	0.013	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
3018	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Lodging	RET	Y	0.010	0.019	0.029	0.047	0.064	0.068	0.069	0.069	0.069	0.069
3019	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.040	0.047	0.056	0.065	0.075	0.115	0.161	0.217	0.276	0.330
3020	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3021	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
3022	EMS, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3023	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.040	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.375
3024	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.011	0.009	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3025	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
3026	Deep Energy Retrofit, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
3027	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
3028	Integrated Building Design, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.150	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
3029	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
3030	Commissioning, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
3031	Rcx, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.015	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3032	Rcx, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3033	Rcx, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.010	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3034	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3035	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3036	Pneumatic to DDC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3037	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Lodging	NC	Y	0.180	0.194	0.210	0.227	0.238	0.218	0.169	0.082	0.043	0.000
3038	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Lodging	RET	Y	0.008	0.017	0.026	0.036	0.057	0.038	0.038	0.038	0.041	0.

3100	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.120	0.221	0.340	0.485	0.646	0.669	0.677	0.679	0.678	0.678
3101	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
3102	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.120	0.221	0.340	0.487	0.649	0.671	0.677	0.678	0.677	0.675
3103	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.030	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
3104	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
3105	Programmable TStat, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.480	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
3106	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.600	0.560	0.486	0.339	0.199	0.122	0.094	0.085	0.085	0.085
3107	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.020	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3108	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Lodging	NC	Y	0.600	0.560	0.485	0.340	0.200	0.122	0.094	0.085	0.085	0.084
3109	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Lodging	RET	Y	0.020	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3110	Int Ltg Dsgn, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3111	Int Ltg Dsgn, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3112	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3113	Int Delamping, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
3114	Int Delamping, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
3115	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
3116	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
3117	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
3118	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
3119	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
3120	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
3121	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
3122	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.150	0.272	0.348	0.465	0.540	0.550	0.511	0.454	0.444	0.433
3123	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.027	0.037	0.049	0.059	0.057	0.052	0.048	0.048	0.049
3124	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.150	0.272	0.348	0.465	0.540	0.550	0.511	0.454	0.444	0.433
3125	Refrig Case Crls, Com, E - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.029	0.040	0.056	0.075	0.080	0.082	0.083	0.084	0.085
3126	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
3127	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
3128	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
3129	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
3130	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
3131	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.088	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
3132	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
3133	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
3134	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
3135	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.100	0.114	0.128	0.141	0.154	0.150	0.147	0.155	0.166	0.177
3136	LED Tube Repl, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.048	0.054	0.043	0.033	0.024	0.015	0.016	0.009	0.009
3137	LED Tube Repl, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.100	0.182	0.171	0.161	0.154	0.150	0.147	0.155	0.166	0.177
3138	Lin LED Fixture, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3139	Lin LED Fixture, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
3140	Lin LED Fixture, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
3141	Lin LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3142	Lin LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
3143	Lin LED Fixture, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
3144	Lin LED Fixture, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.060	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3145	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.010	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
3146	Lin LED Fixture, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.060	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
3147	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.488	0.479	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3148	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3149	Repl Scre, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3150	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3151	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3152	Repl Scre, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3153	Repl Scre, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.488	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3154	Repl Scre, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.100	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3155	Repl Scre, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.488	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3156	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3157	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
3158	LED Hilo Bay, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
3159	LED Hilo Bay, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3160	LED Hilo Bay, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
3161	LED Hilo Bay, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
3162	LED Hilo Bay, Com, E/G - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3163	LED Hilo Bay, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
3164	LED Hilo Bay, Com, E/G - Intl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
3165	Ext Sgn RetFl, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
3166	Ext Sgn RetFl, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
3167	Ext Sgn RetFl, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
3168	Int Ltg Crls, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
3169	Int Ltg Crls, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
3170	Int Ltg Crls, Com, E/G - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
3171	Ext Ltg Dsgn, Com, E - Intl	C&I	C&I New Construction	Small Retail	NC	Y	0.030	0.029	0.038	0.038	0.047	0.047	0.047	0.047	0.047	0.047
3172	Ext Ltg Crls, Com, E - Intl	C&I	C&I Retrofit	Small Retail	RET	Y	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023	0.024
3173	Street Ltg, Com, E - Intl	C&I	C&I New Construction	Small Retail	NC	Y										

3235	Com Room AC, Com, E - Cool	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.240	0.252	0.313	0.367	0.556	0.772	0.837	0.845	0.853	0.861
3236	Com ES Dehumidifier, Com, E - Appl	C&I	C&I New Construction	Small Retail	NC	Y	0.240	0.254	0.288	0.339	0.409	0.477	0.506	0.519	0.525	0.527
3237	Com ES Dehumidifier, Com, E - Appl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.240	0.265	0.303	0.361	0.439	0.517	0.554	0.575	0.587	0.595
3238	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.409	0.518	0.590	0.650	0.660	0.667	0.674	0.680
3239	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3240	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3241	Clothes Washer Elec WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3242	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3243	Clothes Washer Elec WH, Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3244	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3245	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3246	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3247	Clothes Washer Gas WH, Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3248	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
3249	Clothes Washer Gas WH, Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
3250	Clothes Washer Gas WH, Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3251	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3252	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Small Retail	NC	Y	0.350	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
3253	Clothes Washer Gas WH, Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
3254	Ozone Laundry, Com, E - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.064
3255	Ozone Laundry, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.008	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.063
3256	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Small Retail	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3257	Dishwasher, Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3258	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Small Retail	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3259	Dishwasher, Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3260	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Small Retail	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3261	Dishwasher, Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3262	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I New Construction	Small Retail	NC	Y	0.210	0.283	0.367	0.458	0.559	0.561	0.577	0.587	0.590	0.591
3263	Dishwasher, Com, G - HWat [Building w gas WH]	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.667
3264	Com Faucet Aerator, Com, E - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.054	0.066	0.072	0.077	0.074	0.073	0.073	0.074	0.074
3265	Com Faucet Aerator, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.049	0.057	0.063	0.069	0.067	0.066	0.067	0.067	0.067
3266	Pre Rinse Sprayers, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.060	0.066	0.070	0.072	0.074	0.078	0.083	0.083	0.084	0.085
3267	Heat Pump Water Heater, Com, E - HWat	C&I	C&I New Construction	Small Retail	NC	Y	0.090	0.108	0.131	0.157	0.190	0.231	0.279	0.329	0.378	0.424
3268	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Retrofit	Small Retail	RET	Y	0.015	0.018	0.021	0.025	0.029	0.034	0.037	0.039	0.039	0.038
3269	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.090	0.108	0.130	0.153	0.180	0.212	0.245	0.274	0.295	0.305
3270	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Small Retail	NC	N	0.540	0.543	0.552	0.580	0.608	0.627	0.641	0.653	0.662	0.670
3271	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	N	0.045	0.043	0.046	0.051	0.053	0.051	0.048	0.053	0.059	0.063
3272	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Small Retail	REPL	N	0.540	0.504	0.496	0.486	0.468	0.437	0.398	0.427	0.455	0.483
3273	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Small Retail	NC	N	0.060	0.080	0.103	0.131	0.164	0.204	0.251	0.301	0.317	0.328
3274	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Small Retail	RET	N	0.006	0.008	0.012	0.016	0.023	0.030	0.036	0.041	0.040	0.038
3275	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Small Retail	REPL	N	0.060	0.082	0.106	0.133	0.164	0.199	0.236	0.270	0.270	0.264
3276	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Small Retail	NC	Y	0.390	0.420	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3277	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Small Retail	RET	Y	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
3278	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.350	0.384	0.428	0.467	0.493	0.460	0.420	0.390	0.359	0.327
3279	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
3280	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.520	0.544	0.586	0.643	0.703	0.729	0.742	0.751	0.758	0.765
3281	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.680	0.679	0.717	0.742	0.756	0.765	0.764	0.764	0.763	0.762
3282	Anti Sweat Heat Control, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.094	0.094	0.097	0.107	0.085	0.084	0.084	0.084	0.084	0.084
3283	Case Night Covers, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	N	0.008	0.011	0.015	0.020	0.025	0.032	0.038	0.044	0.050	0.056
3284	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	N	0.125	0.192	0.326	0.460	0.585	0.649	0.672	0.679	0.678	0.678
3285	Loading Dock Pit Seals, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	N	0.015	0.025	0.045	0.064	0.077	0.082	0.084	0.084	0.085	0.086
3286	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.520	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
3287	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.050	0.058	0.063	0.065	0.059	0.054	0.064	0.073	0.082
3288	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.520	0.493	0.492	0.491	0.477	0.435	0.384	0.447	0.500	0.575
3289	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
3290	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.040	0.049	0.056	0.059	0.060	0.052	0.047	0.049	0.051	0.053
3291	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.520	0.487	0.480	0.473	0.455	0.421	0.378	0.387	0.389	0.391
3292	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.520	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
3293	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	N	0.040	0.054	0.067	0.077	0.085	0.083	0.083	0.084	0.084	0.085
3294	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	N	0.008	0.008	0.008	0.008	0.009	0.012	0.010	0.011	0.011	0.011
3295	LowHeat NoHeat Doors, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.000	0.000	0.000	0.000	0.003	0.003	0.003	0.004	0.005	0.005
3296	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.630	0.627	0.658	0.697	0.738	0.750	0.753	0.754	0.753	0.753
3297	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.630	0.654	0.692	0.740	0.792	0.813	0.825	0.834	0.842	0.850
3298	Walk In Refrigeration, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.450	0.471	0.514	0.563	0.621	0.640	0.651	0.656	0.658	0.659
3299	Refrigeration Tune Up, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.031	0.042	0.053	0.065	0.077	0.078	0.078	0.079	0.080
3300	ES Ice Machine, Com, E - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3301	ES Ice Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3302	Walk In Cooler Retrofit, Com, E - Refr	C&I	C&I Retrofit	Small Retail	RET	Y	0.015	0.027	0.047	0.068	0.085	0.087	0.088	0.089	0.089	0.090
3303	HE Built Up Refrig, Com, E/G - Refr	C&I	C&I New Construction	Small Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.656	0.659	0.659
3304	HE Built Up Refrig, Com, E/G - Refr	C&I	C&I Retrofit	Small Retail	RET	N	0.003	0.004	0.005	0.007	0.009	0.011	0.013	0.015	0.017	0.019
3305	Ovens, Com, E - Cook	C&I	C&I New Construction	Small Retail	NC	Y	0.210	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3306	Ovens, Com, E - Cook	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.210	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3307	Ovens, Com, G - Cook	C&I	C&I New Construction	Small Retail	NC	Y	0.210	0.283	0.367	0.458	0.559	0.561	0.572	0.580	0.589	0.593

3370	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.240	0.305	0.381	0.466	0.561	0.577	0.587	0.590	0.591	0.590
3371	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.020	0.028	0.035	0.038	0.041	0.042	0.039	0.039	0.040	0.040
3372	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.240	0.302	0.366	0.430	0.492	0.476	0.452	0.462	0.470	0.477
3373	VFD on HVAC System, Com, E - Vent	C&I	C&I Retrofit	Small Retail	RET	Y	0.049	0.067	0.081	0.097	0.114	0.067	0.071	0.075	0.076	0.071
3374	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Small Retail	RET	Y	0.016	0.022	0.032	0.048	0.066	0.071	0.074	0.077	0.077	0.077
3375	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Small Retail	NC	Y	0.638	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
3376	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Small Retail	RET	Y	0.005	0.009	0.012	0.016	0.020	0.025	0.028	0.030	0.028	0.026
3377	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.638	0.636	0.636	0.625	0.611	0.585	0.558	0.530	0.502	0.476
3378	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.010	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3379	Window Film, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.01	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3380	Window Film, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.01	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3381	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	N	0.01	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3382	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	N	0.18	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
3383	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	N	0.18	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
3384	Windows, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.18	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
3385	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.18	0.210	0.264	0.352	0.473	0.547	0.592	0.613	0.621	0.623
3386	Steam Trap Maintenance, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.049	0.059	0.073	0.080	0.085	0.087	0.088	0.089	0.090	0.090
3387	Infrared Heater, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	0.18	0.206	0.241	0.281	0.325	0.371	0.413	0.452	0.489	0.525
3388	Infrared Heater, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.012	0.017	0.026	0.042	0.059	0.063	0.064	0.063	0.074	0.076
3389	Infrared Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.18	0.209	0.239	0.269	0.292	0.309	0.315	0.312	0.400	0.497
3390	Forced Air Heating Maintenance, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.01	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.059
3391	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	0.12	0.211	0.315	0.409	0.489	0.474	0.458	0.443	0.430	0.422
3392	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.011	0.016	0.019	0.021	0.024	0.026	0.028	0.030	0.031	0.031
3393	Energy Recovery Ventilator, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.12	0.216	0.321	0.412	0.484	0.459	0.431	0.402	0.374	0.348
3394	Unit Heater, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	0.24	0.239	0.248	0.261	0.277	0.292	0.304	0.313	0.321	0.328
3395	Unit Heater, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.012	0.017	0.025	0.040	0.055	0.057	0.055	0.051	0.051	0.051
3396	Unit Heater, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.24	0.241	0.246	0.249	0.249	0.243	0.232	0.217	0.215	0.211
3397	Furnace, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	0.81	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
3398	Furnace, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.003	0.003	0.004	0.004	0.005	0.006	0.006	0.007	0.008	0.008
3399	Furnace, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.81	0.850	0.850	0.852	0.853	0.853	0.852	0.849	0.845	0.841
3400	Boilers, Com, G - Heat	C&I	C&I New Construction	Small Retail	NC	Y	0.81	0.821	0.816	0.814	0.812	0.810	0.808	0.805	0.803	0.801
3401	Boilers, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.0375	0.036	0.036	0.036	0.037	0.036	0.035	0.033	0.031	0.029
3402	Boilers, Com, G - Heat	C&I	C&I Equipment Replacement	Small Retail	REPL	Y	0.81	0.789	0.755	0.721	0.683	0.643	0.600	0.555	0.508	0.460
3403	Boiler Modifications, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	Y	0.01	0.014	0.018	0.022	0.028	0.035	0.042	0.048	0.054	0.059
3404	Boiler Blowdown Controls, Com, G - Heat	C&I	C&I Retrofit	Small Retail	RET	N	0.005	0.008	0.011	0.014	0.017	0.021	0.025	0.030	0.034	0.038
3405	Smart TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.14	0.219	0.340	0.447	0.649	0.671	0.677	0.679	0.677	0.678
3406	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.03	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
3407	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.14	0.254	0.381	0.518	0.664	0.675	0.678	0.679	0.678	0.678
3408	Smart TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.03	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
3409	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.03	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
3410	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.12	0.221	0.340	0.485	0.646	0.669	0.677	0.679	0.678	0.678
3411	Smart TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.03	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.091
3412	Smart TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.03	0.041	0.056	0.077	0.084	0.087	0.088	0.089	0.090	0.090
3413	Programmable TStat, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.48	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
3414	Programmable TStat, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.48	0.449	0.393	0.280	0.173	0.113	0.092	0.085	0.085	0.085
3415	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.6	0.560	0.486	0.339	0.199	0.122	0.094	0.085	0.085	0.085
3416	Programmable TStat, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.02	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3417	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Small Retail	NC	Y	0.560	0.448	0.340	0.200	0.117	0.061	0.044	0.034	0.028	0.024
3418	Programmable TStat, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Small Retail	RET	Y	0.02	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3419	Int Ltg Dsgn, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3420	Int Ltg Dsgn, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3421	Int Ltg Dsgn, Com, E/G - Intl	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3422	Int Delamping, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
3423	Int Delamping, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
3424	Int Delamping, Com, E/G - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.025	0.036	0.052	0.060	0.068	0.072	0.074	0.075	0.076	0.077
3425	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
3426	Stair Occ Sensor, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
3427	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
3428	Stair Occ Sensor, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
3429	Stair Occ Sensor, Com, E/G - Intl	C&I	C&I New Construction	Large Retail	NC	Y	0.045	0.115	0.275	0.443	0.599	0.679	0.708	0.716	0.716	0.715
3430	Stair Occ Sensor, Com, E - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.028	0.037	0.047	0.059	0.061	0.062	0.063	0.063	0.064
3431	Refrig Case LED, Com, E - Intl	C&I	C&I New Construction	Large Retail	NC	Y	0.15	0.275	0.363	0.512	0.650	0.721	0.747	0.754	0.753	0.753
3432	Refrig Case LED, Com, E - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.027	0.037	0.049	0.059	0.057	0.052	0.048	0.048	0.049
3433	Refrig Case LED, Com, E - Intl	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.15	0.272	0.348	0.465	0.546	0.550	0.511	0.454	0.444	0.433
3434	Refrig Case Cris, Com, E - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.029	0.040	0.056	0.075	0.080	0.082	0.083	0.084	0.085
3435	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
3436	Repl pin CFL wLED, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
3437	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
3438	Repl pin CFL wLED, Com, E - Intl (Electric Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.0875	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
3439	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Retrofit	Large Retail	RET	Y	0.015	0.028	0.048	0.065	0.074	0.067	0.059	0.060	0.061	0.062
3440	Repl pin CFL wLED, Com, E/G - Intl	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.0875	0.248	0.562	0.652	0.620	0.549	0.466	0.448	0.429	0.411
3441	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
3442	LED Tube Repl, Com, E - Intl (No Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.1	0.114	0.127	0.140	0.154	0.154	0.154	0.154	0.154	0.154
3443	LED Tube Repl, Com, E - Intl (Electric Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.048	0.055	0.043	0.033	0.024	0.016	0.016	0.009	0.009
344																

3505	Com GSPH ,Com, E - Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
3506	Com GSPH ,Com, E - Heat	C&I	C&I Retrofit	Large Retail	RET	N	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
3507	Com GSPH ,Com, E - Heat	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
3508	Cool Roof ,Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Large Retail	REPL	N	0.005	0.016	0.032	0.051	0.068	0.063	0.057	0.052	0.046	0.042
3509	Cool Roof ,Com, E - Cool [Building w Elec Heat]	C&I	C&I Retrofit	Large Retail	RET	N	0.005	0.016	0.032	0.051	0.068	0.063	0.057	0.052	0.046	0.042
3510	Cool Roof ,Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Large Retail	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
3511	Cool Roof ,Com, E - Heat [Building w Elec Heat]	C&I	C&I Retrofit	Large Retail	RET	N	0.005	0.016	0.032	0.051	0.079	0.082	0.084	0.084	0.085	0.086
3512	Cool Roof ,Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Large Retail	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
3513	Cool Roof ,Com, E - Cool [Building w Gas Heat]	C&I	C&I Retrofit	Large Retail	RET	N	0.005	0.016	0.032	0.051	0.079	0.082	0.084	0.084	0.085	0.086
3514	Cool Roof ,Com, G - Heat [Building w Gas Heat]	C&I	C&I New Construction	Large Retail	NC	N	0.005	0.029	0.108	0.296	0.552	0.639	0.670	0.678	0.677	0.675
3515	Cool Roof ,Com, G - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Large Retail	RET	N	0.005	0.016	0.032	0.051	0.079	0.082	0.084	0.084	0.085	0.086
3516	Optimized Chiller Sys ,Com, E - Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3517	Optimized Unitary AC Sys ,Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Large Retail	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3518	Optimized Unitary AC Sys ,Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Large Retail	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3519	Optimized Unitary AC Sys ,Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3520	Optimized Unitary AC Sys ,Com, G - Heat [Building w Gas Heat]	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.417	0.523	0.634	0.644	0.652	0.656	0.658	0.657	0.656
3521	Controls for Unitary AC ,Com, E - Cool	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.071
3522	DCV ,Com, E - Cool [Building w Elec Heat]	C&I	C&I Retrofit	Large Retail	RET	Y	0.03	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
3523	DCV ,Com, E - Heat [Building w Elec Heat]	C&I	C&I Retrofit	Large Retail	RET	Y	0.03	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
3524	DCV ,Com, E - Vent [Building w Gas Heat]	C&I	C&I Retrofit	Large Retail	RET	Y	0.03	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
3525	DCV ,Com, E - Cool [Building w Gas Heat]	C&I	C&I Retrofit	Large Retail	RET	Y	0.03	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
3526	DCV ,Com, G - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Large Retail	RET	Y	0.03	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
3527	DCV ,Com, E - Vent [Building w Gas Heat]	C&I	C&I Retrofit	Large Retail	RET	Y	0.03	0.041	0.052	0.060	0.067	0.075	0.075	0.075	0.076	0.077
3528	AC Tuneup ,Com, E - Cool [ASHP]	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.071
3529	AC Tuneup ,Com, E - Heat [ASHP]	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.071
3530	AC Tuneup ,Com, E - Cool [Unitary AC]	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.053	0.062	0.060	0.054	0.053	0.056	0.062	0.069	0.071
3531	Unitary Equipment Economizer ,Com, E - Cool	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.047	0.053	0.056	0.060	0.066	0.066	0.067	0.067	0.068
3532	PTAC ,Com, E - Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.24	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
3533	PTAC ,Com, E - Heat	C&I	C&I Retrofit	Large Retail	RET	N	0.011	0.008	0.011	0.012	0.006	0.008	0.006	0.006	0.006	0.006
3534	PTAC ,Com, E - Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.24	0.296	0.356	0.412	0.464	0.449	0.425	0.424	0.421	0.417
3535	Eff Unitary AC ,Com, E - Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.4875	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
3536	Eff Unitary AC ,Com, E - Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.008	0.012	0.020	0.034	0.048	0.049	0.047	0.048	0.050	0.051
3537	Eff Unitary AC ,Com, E - Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.4875	0.517	0.561	0.607	0.636	0.606	0.562	0.569	0.576	0.582
3538	Minsplit Ductless AC ,Com, E - Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.12	0.218	0.323	0.435	0.559	0.576	0.586	0.591	0.592	0.593
3539	Minsplit Ductless AC ,Com, E - Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.0025	0.004	0.006	0.009	0.011	0.013	0.015	0.017	0.018	0.019
3540	Minsplit Ductless AC ,Com, E - Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.12	0.215	0.315	0.425	0.549	0.573	0.595	0.598	0.599	0.581
3541	Computer Room Air Conditioner ,Com, E - Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.5625	0.562	0.587	0.614	0.644	0.669	0.691	0.712	0.732	0.753
3542	Computer Room Air Conditioner ,Com, E - Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.5625	0.586	0.618	0.653	0.691	0.726	0.757	0.788	0.819	0.850
3543	Chiller Tuneup ,Com, E - Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.06	0.064	0.068	0.070	0.070	0.069	0.065	0.063	0.063	0.063
3544	Chiller Systems ,Com, E - Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.72	0.721	0.755	0.781	0.803	0.803	0.802	0.801	0.801	0.800
3545	Chiller Systems ,Com, E - Cool	C&I	C&I Retrofit	Large Retail	RET	N	0.027	0.039	0.059	0.070	0.089	0.083	0.056	0.050	0.045	0.040
3546	Chiller Systems ,Com, E - Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	N	0.72	0.698	0.684	0.641	0.580	0.499	0.416	0.331	0.244	0.156
3547	Com Room AC ,Com, E - Cool	C&I	C&I New Construction	Large Retail	NC	Y	0.24	0.321	0.451	0.575	0.676	0.765	0.764	0.764	0.763	0.770
3548	Com Room AC ,Com, E - Cool	C&I	C&I Retrofit	Large Retail	RET	Y	0.12	0.112	0.075	0.043	0.043	0.050	0.052	0.052	0.053	0.053
3549	Com Room AC ,Com, E - Cool	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.24	0.252	0.313	0.367	0.556	0.772	0.837	0.845	0.853	0.861
3550	Com ES Dehumidifier ,Com, E - Appl	C&I	C&I New Construction	Large Retail	NC	Y	0.24	0.254	0.288	0.339	0.409	0.477	0.506	0.519	0.525	0.527
3551	Com ES Dehumidifier ,Com, E - Appl	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.24	0.265	0.303	0.361	0.439	0.517	0.554	0.575	0.587	0.595
3552	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3553	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3554	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3555	Clothes Washer Elec WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3556	Clothes Washer Elec WH ,Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3557	Clothes Washer Elec WH ,Com, E - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3558	Clothes Washer Gas WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3559	Clothes Washer Gas WH ,Com, E - Appl [unit w/ elec dry - Washer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3560	Clothes Washer Gas WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.450	0.518	0.590	0.600	0.603	0.609	0.615	0.621
3561	Clothes Washer Gas WH ,Com, E - Appl [unit w/ elec dry - Dryer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.473	0.551	0.634	0.650	0.660	0.667	0.674	0.680
3562	Clothes Washer Gas WH ,Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
3563	Clothes Washer Gas WH ,Com, G - HWat [unit w/ elec dry - Water Heater]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
3564	Clothes Washer Gas WH ,Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.615	0.621
3565	Clothes Washer Gas WH ,Com, E - Appl [unit w/ gas dry - Washer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
3566	Clothes Washer Gas WH ,Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
3567	Clothes Washer Gas WH ,Com, G - Oth [unit w/ gas dry - Dryer]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
3568	Clothes Washer Gas WH ,Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I New Construction	Large Retail	NC	Y	0.35	0.390	0.449	0.519	0.592	0.601	0.603	0.609	0.614	0.618
3569	Clothes Washer Gas WH ,Com, G - HWat [unit w/ gas dry - Water Heater]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.35	0.406	0.472	0.552	0.636	0.652	0.661	0.667	0.672	0.677
3570	Ozone Laundry ,Com, E - HWat	C&I	C&I Retrofit	Large Retail	RET	Y	0.0075	0.016	0.026	0.040	0.056	0.060	0.062	0.063	0.063	0.064
3571	Ozone Laundry ,Com, E - HWat	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
3572	Dishwasher ,Com, E - Appl [Building w elec WH]	C&I	C&I New Construction	Large Retail	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3573	Dishwasher ,Com, E - Appl [Building w elec WH]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3574	Dishwasher ,Com, E - HWat [Building w elec WH]	C&I	C&I New Construction	Large Retail	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3575	Dishwasher ,Com, E - HWat [Building w elec WH]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3576	Dishwasher ,Com, E - Appl [Building w gas WH]	C&I	C&I New Construction	Large Retail	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3577	Dishwasher ,Com, E - Appl [Building w gas WH]	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3578	Dishwasher ,															

3640	Griddles, Com, G - Cook	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.21	0.295	0.386	0.488	0.602	0.626	0.643	0.653	0.661	0.667
3641	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Large Retail	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3642	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3643	Motors, Com, E - Oth	C&I	C&I New Construction	Large Retail	NC	Y	0.0175	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
3644	Motors, Com, E - Oth	C&I	C&I Retrofit	Large Retail	RET	Y	0.005	0.009	0.012	0.015	0.021	0.025	0.029	0.033	0.038	0.039
3645	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.6375	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
3646	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Large Retail	RET	Y	0.0125	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
3647	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Large Retail	RET	Y	0.04	0.050	0.058	0.066	0.074	0.083	0.084	0.084	0.085	0.086
3648	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.04	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
3649	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3650	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.04	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
3651	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3652	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.04	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
3653	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3654	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
3655	Deep Energy Retrofit, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
3656	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.15	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
3657	Integrated Building Design, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.15	0.166	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
3658	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
3659	Commissioning, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
3660	RCX, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.01	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3661	RCX, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.01	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3662	RCX, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.015	0.015	0.020	0.025	0.031	0.031	0.031	0.031	0.032	0.032
3663	Data Center, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.025	0.046	0.085	0.153	0.238	0.313	0.373	0.427	0.477	0.527
3664	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
3665	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.025	0.046	0.085	0.153	0.238	0.313	0.373	0.427	0.477	0.527
3666	Data Center, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
3667	Data Center, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.025	0.046	0.084	0.154	0.239	0.313	0.374	0.427	0.476	0.525
3668	Data Center, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.026	0.026	0.034	0.044	0.050	0.056	0.061	0.064	0.066	0.067
3669	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3670	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3671	Pneumatic to DDC, Com, G - TotG (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3672	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Large Retail	NC	Y	0.18	0.191	0.211	0.236	0.252	0.236	0.189	0.094	0.048	0.000
3673	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Large Retail	RET	Y	0.0075	0.017	0.026	0.036	0.037	0.038	0.038	0.038	0.041	0.045
3674	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.18	0.194	0.210	0.227	0.238	0.248	0.169	0.082	0.033	0.000
3675	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I New Construction	Large Retail	NC	Y	0.12	0.13	0.153	0.178	0.214	0.269	0.349	0.437	0.555	0.693
3676	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Large Retail	RET	Y	0.000	0.001	0.002	0.005	0.012	0.019	0.026	0.032	0.035	0.035
3677	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.12	0.138	0.160	0.188	0.230	0.292	0.381	0.498	0.612	0.717
3678	Computer Power Management, Com, E - Plug	C&I	C&I Retrofit	Large Retail	RET	Y	0.01	0.019	0.029	0.037	0.044	0.048	0.050	0.052	0.056	0.061
3679	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Large Retail	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
3680	Vending Machine Controls, Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Large Retail	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
3681	Duct Sealing Regulated, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.005	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3682	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.0025	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3683	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.0025	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3684	Duct Sealing Regulated, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.0025	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3685	Duct Sealing Regulated, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.0025	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3686	Duct Sealing Regulated, Com, E - Cool (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.0025	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3687	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.24	0.305	0.382	0.465	0.559	0.676	0.788	0.891	0.991	1.091
3688	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
3689	Kitchen DCV, Com, E - Vent (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.24	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
3690	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.24	0.305	0.382	0.465	0.559	0.676	0.788	0.891	0.991	1.091
3691	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
3692	Kitchen DCV, Com, E - Heat (Building w Elec Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.24	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
3693	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.24	0.305	0.382	0.465	0.559	0.676	0.788	0.891	0.991	1.091
3694	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.028	0.035	0.038	0.040	0.042	0.039	0.039	0.040	0.040
3695	Kitchen DCV, Com, E - Vent (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.24	0.302	0.367	0.429	0.490	0.475	0.452	0.463	0.471	0.479
3696	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	Y	0.24	0.305	0.381	0.466	0.561	0.577	0.587	0.590	0.591	0.590
3697	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	Y	0.02	0.028	0.035	0.038	0.041	0.042	0.039	0.039	0.040	0.040
3698	Kitchen DCV, Com, G - Heat (Building w Gas Heat)	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.24	0.302	0.366	0.430	0.492	0.476	0.452	0.462	0.470	0.477
3699	VFD on HVAC system, Com, E - Vent	C&I	C&I Retrofit	Large Retail	RET	Y	0.048	0.04	0.048	0.057	0.067	0.074	0.094	0.075	0.096	0.071
3700	ECM Furnace Motors, Com, E - Vent	C&I	C&I Retrofit	Large Retail	RET	Y	0.016	0.022	0.027	0.038	0.046	0.072	0.074	0.077	0.077	0.077
3701	Motors and Fans, Com, E - Vent	C&I	C&I New Construction	Large Retail	NC	Y	0.6375	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
3702	Motors and Fans, Com, E - Vent	C&I	C&I Retrofit	Large Retail	RET	Y	0.005	0.009	0.012	0.016	0.020	0.025	0.028	0.030	0.028	0.026
3703	Motors and Fans, Com, E - Vent	C&I	C&I Equipment Replacement	Large Retail	REPL	Y	0.6375	0.636	0.636	0.625	0.611	0.585	0.558	0.530	0.502	0.476
3704	Window Film, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.01	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3705	Window Film, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.01	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3706	Window Film, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.01	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3707	Window Film, Com, G - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Large Retail	RET	N	0.01	0.022	0.034	0.043	0.051	0.050	0.050	0.050	0.051	0.051
3708	Windows, Com, E - Cool (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	N	0.18	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
3709	Windows, Com, E - Heat (Building w Elec Heat)	C&I	C&I New Construction	Large Retail	NC	N	0.18	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
3710	Windows, Com, E - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	N	0.18	0.210	0.265	0.351	0.471	0.546	0.592	0.613	0.622	0.626
3711	Windows, Com, G - Heat (Building w Gas Heat)	C&I	C&I New Construction	Large Retail	NC	N	0.18	0.210	0.264	0.352	0.473	0.547	0.592	0.613	0.621	0.623
3712	Steam Trap Maintenance, Com, G - Heat	C&I	C&I Retrofit	Large Retail	RET	N	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
3713	Infrared Heater, Com, G - Heat	C&I	C&I New Construction	Large Retail	NC	Y	0.18	0.206	0.241	0.281</						

3775	LED Tube Repl. Com, E/G - Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.1	0.182	0.171	0.161	0.154	0.150	0.147	0.155	0.166	0.177
3776	Un LED Fixture, Com, E - Intl [No Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.06	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3777	Un LED Fixture, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Warehouse	RET	N	0.01	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
3778	Un LED Fixture, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.06	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3779	Un LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.06	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3780	Un LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Warehouse	RET	N	0.01	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
3781	Un LED Fixture, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.06	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
3782	Un LED Fixture, Com, E/G - Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.06	0.117	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3783	Un LED Fixture, Com, E/G - Intl.	C&I	C&I Retrofit	Warehouse	RET	N	0.01	0.012	0.014	0.012	0.009	0.007	0.004	0.004	0.002	0.002
3784	Un LED Fixture, Com, E/G - Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.06	0.119	0.221	0.313	0.437	0.548	0.619	0.693	0.731	0.744
3785	Repl Scrs Com, E - Intl [No Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.4875	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3786	Repl Scrs Com, E - Intl [No Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.1	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3787	Repl Scrs Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.4875	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3788	Repl Scrs Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.4875	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3789	Repl Scrs Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.1	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3790	Repl Scrs Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.4875	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3791	Repl Scrs Com, E/G - Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.4875	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3792	Repl Scrs Com, E/G - Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.1	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3793	Repl Scrs Com, E/G - Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.4875	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3794	LED Hilo Bay, Com, E - Intl [No Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3795	LED Hilo Bay, Com, E - Intl [No Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
3796	LED Hilo Bay, Com, E - Intl [No Heat]	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
3797	LED Hilo Bay, Com, E - Intl [Electric Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659	
3798	LED Hilo Bay, Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
3799	LED Hilo Bay, Com, E - Intl [Electric Heat]	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
3800	LED Hilo Bay, Com, E/G - Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.075	0.126	0.218	0.310	0.433	0.542	0.609	0.641	0.654	0.659
3801	LED Hilo Bay, Com, E/G - Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.039	0.056	0.062	0.066	0.060	0.055	0.063	0.072	0.072
3802	LED Hilo Bay, Com, E/G - Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.075	0.123	0.202	0.267	0.340	0.382	0.380	0.394	0.388	0.377
3803	Ext Sgn ReTrf. Com, E - Intl [No Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.040	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
3804	Ext Sgn ReTrf. Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
3805	Ext Sgn ReTrf. Com, E/G - Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.035	0.040	0.048	0.059	0.069	0.071	0.072	0.073	0.074	0.074
3806	Int Ltg Ctrls. Com, E - Intl [No Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
3807	Int Ltg Ctrls. Com, E - Intl [Electric Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
3808	Int Ltg Ctrls. Com, E/G - Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.02	0.024	0.028	0.033	0.039	0.045	0.049	0.054	0.059	0.064
3809	Ext Ltg Dsgn. Com, E - Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.03	0.029	0.038	0.048	0.067	0.087	0.097	0.107	0.117	0.127
3810	Ext Ltg Ctrls. Com, E - Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.05	0.082	0.092	0.106	0.125	0.145	0.164	0.183	0.202	0.221
3811	Street Ltg. Com, E - Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.44	0.468	0.519	0.540	0.570	0.598	0.614	0.622	0.625	0.626
3812	Street Ltg. Com, E - Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.025	0.030	0.036	0.044	0.050	0.049	0.045	0.048	0.049	0.051
3813	Street Ltg. Com, E - Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.44	0.459	0.493	0.487	0.479	0.463	0.434	0.449	0.461	0.472
3814	Ext Area Ltg. Com, E - Intl.	C&I	C&I New Construction	Warehouse	NC	Y	0.612	0.595	0.607	0.611	0.612	0.612	0.612	0.611	0.610	0.610
3815	Ext Area Ltg. Com, E - Intl.	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.025	0.030	0.035	0.038	0.036	0.034	0.038	0.041	0.045
3816	Ext Area Ltg. Com, E - Intl.	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.591	0.591	0.586	0.588	0.542	0.515	0.486	0.511	0.578	0.625
3817	Minisplit Ductless HP, Com, E - Cool	C&I	C&I Retrofit	Warehouse	RET	Y	0.0025	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
3818	Minisplit Ductless HP, Com, E - Cool	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.12	0.225	0.335	0.452	0.579	0.593	0.597	0.593	0.586	0.575
3819	Minisplit Ductless HP, Com, E - Heat	C&I	C&I Retrofit	Warehouse	RET	Y	0.0025	0.004	0.006	0.009	0.011	0.013	0.016	0.017	0.019	0.020
3820	Minisplit Ductless HP, Com, E - Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.12	0.225	0.335	0.452	0.579	0.593	0.597	0.593	0.586	0.575
3821	PTHP, Com, E - Cool	C&I	C&I New Construction	Warehouse	NC	Y	0.24	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
3822	PTHP, Com, E - Cool	C&I	C&I Retrofit	Warehouse	RET	N	0.011	0.028	0.041	0.058	0.078	0.102	0.125	0.152	0.183	0.214
3823	PTHP, Com, E - Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.24	0.296	0.356	0.412	0.464	0.499	0.425	0.460	0.494	0.528
3824	PTHP, Com, E - Heat	C&I	C&I New Construction	Warehouse	NC	Y	0.24	0.290	0.353	0.420	0.497	0.512	0.521	0.525	0.527	0.527
3825	PTHP, Com, E - Heat	C&I	C&I Retrofit	Warehouse	RET	N	0.008	0.011	0.019	0.033	0.047	0.049	0.048	0.053	0.058	0.062
3826	PTHP, Com, E - Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.24	0.296	0.356	0.412	0.464	0.499	0.425	0.460	0.494	0.528
3827	Unitary HP, Com, E - Cool	C&I	C&I New Construction	Warehouse	NC	N	0.4875	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
3828	Unitary HP, Com, E - Cool	C&I	C&I Retrofit	Warehouse	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
3829	Unitary HP, Com, E - Cool	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.4875	0.517	0.561	0.607	0.636	0.656	0.562	0.596	0.629	0.663
3830	Unitary HP, Com, E - Heat	C&I	C&I New Construction	Warehouse	NC	N	0.4875	0.507	0.557	0.623	0.692	0.709	0.715	0.716	0.716	0.715
3831	Unitary HP, Com, E - Heat	C&I	C&I Retrofit	Warehouse	RET	N	0.008	0.012	0.020	0.034	0.048	0.050	0.048	0.053	0.057	0.060
3832	Unitary HP, Com, E - Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.4875	0.517	0.561	0.607	0.636	0.656	0.562	0.596	0.629	0.663
3833	Com GSPH, Com, E - Cool	C&I	C&I Retrofit	Warehouse	RET	N	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
3834	Com GSPH, Com, E - Cool	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
3835	Com GSPH, Com, E - Heat	C&I	C&I Retrofit	Warehouse	RET	N	0.005	0.016	0.031	0.051	0.068	0.063	0.057	0.052	0.046	0.042
3836	Com GSPH, Com, E - Heat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.005	0.029	0.108	0.280	0.482	0.509	0.480	0.431	0.374	0.315
3837	Cool Roof, Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Warehouse	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
3838	Cool Roof, Com, E - Cool [Building w Elec Heat]	C&I	C&I Retrofit	Warehouse	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
3839	Cool Roof, Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Warehouse	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
3840	Cool Roof, Com, E - Heat [Building w Elec Heat]	C&I	C&I Retrofit	Warehouse	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
3841	Cool Roof, Com, E - Heat [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	N	0.005	0.029	0.108	0.295	0.550	0.638	0.669	0.679	0.678	0.678
3842	Cool Roof, Com, E - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Warehouse	RET	N	0.005	0.016	0.032	0.054	0.079	0.082	0.084	0.084	0.085	0.086
3843	Cool Roof, Com, G - Heat [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	N	0.005	0.029	0.108	0.295	0.552	0.639	0.670	0.678	0.677	0.675
3844	Cool Roof, Com, G - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Warehouse	RET	N	0.005	0.016	0.032	0.055	0.079	0.082	0.084	0.084	0.085	0.086
3845	Optimized Unitary AC Sys, Com, E - Cool [Building w Elec Heat]	C&I	C&I New Construction	Warehouse	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3846	Optimized Unitary AC Sys, Com, E - Heat [Building w Elec Heat]	C&I	C&I New Construction	Warehouse	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3847	Optimized Unitary AC Sys, Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	N	0.325	0.417	0.524	0.632	0.642	0.651	0.656	0.658	0.659	0.659
3848	Optimized Unitary AC Sys, Com, G - Heat [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.325	0.417	0.523	0.634	0.644	0.652	0.656	0.658	0.657	0.656
3849	Controls for Unitary AC, Com, E - Cool	C&I	C&I Retrofit	Warehouse	RET	Y	0.04	0.053	0.062							

3910	Heat Pump Water Heater, Com, E - HWat	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.52	0.08	0.130	0.153	0.180	0.212	0.245	0.274	0.295	0.305
3911	Gas Storage Water Heater, Com, G - HWat	C&I	C&I New Construction	Warehouse	NC	N	0.54	0.534	0.552	0.580	0.608	0.627	0.641	0.653	0.664	0.675
3912	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Retrofit	Warehouse	RET	N	0.045	0.043	0.046	0.051	0.053	0.051	0.048	0.053	0.059	0.063
3913	Gas Storage Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.534	0.534	0.534	0.534	0.534	0.534	0.534	0.534	0.534	0.534
3914	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I New Construction	Warehouse	NC	N	0.06	0.080	0.103	0.131	0.164	0.200	0.251	0.301	0.310	0.328
3915	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Retrofit	Warehouse	RET	N	0.006	0.008	0.012	0.016	0.023	0.030	0.036	0.041	0.040	0.038
3916	Gas Tankless Water Heater, Com, G - HWat	C&I	C&I Equipment Replacement	Warehouse	REPL	N	0.06	0.082	0.106	0.133	0.164	0.199	0.236	0.270	0.270	0.264
3917	Clothes Dryer, Com, E - Appl	C&I	C&I New Construction	Warehouse	NC	Y	0.35	0.390	0.450	0.518	0.590	0.660	0.603	0.603	0.603	0.602
3918	Clothes Dryer, Com, E - Appl	C&I	C&I Retrofit	Warehouse	RET	Y	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
3919	Clothes Dryer, Com, E - Appl	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.35	0.384	0.428	0.467	0.493	0.460	0.420	0.390	0.359	0.327
3920	Clothes Dryer, Com, G - Oth	C&I	C&I New Construction	Warehouse	NC	Y	0.35	0.390	0.449	0.519	0.592	0.661	0.603	0.603	0.603	0.602
3921	Clothes Dryer, Com, G - Oth	C&I	C&I Retrofit	Warehouse	RET	N	0.025	0.028	0.036	0.045	0.051	0.047	0.043	0.040	0.037	0.035
3922	Clothes Dryer, Com, G - Oth	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.35	0.384	0.427	0.468	0.495	0.461	0.420	0.390	0.358	0.326
3923	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	0.52	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
3924	ES Refrigerator and Freezer, Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.52	0.544	0.586	0.643	0.703	0.729	0.742	0.751	0.758	0.765
3925	Loading Dock PT Seals, Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	N	0.125	0.152	0.126	0.040	0.585	0.649	0.672	0.679	0.678	0.678
3926	Loading Dock PT Seals, Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	N	0.025	0.025	0.045	0.064	0.077	0.082	0.084	0.084	0.085	0.086
3927	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	0.52	0.523	0.557	0.605	0.655	0.672	0.677	0.679	0.678	0.678
3928	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	N	0.04	0.050	0.058	0.063	0.065	0.059	0.054	0.064	0.073	0.082
3929	ECM Comp Cond Fan Motor, Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.52	0.493	0.492	0.491	0.477	0.453	0.384	0.447	0.510	0.575
3930	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	0.52	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
3931	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	0.04	0.049	0.056	0.059	0.060	0.052	0.047	0.049	0.051	0.053
3932	Evap Fan Motor Replacement, Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.487	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
3933	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	0.52	0.516	0.543	0.583	0.624	0.651	0.667	0.679	0.678	0.678
3934	Evap Fan Speed Controls, Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	0.04	0.054	0.067	0.077	0.085	0.083	0.083	0.084	0.085	0.086
3935	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	0.63	0.627	0.658	0.697	0.738	0.750	0.753	0.754	0.753	0.753
3936	Refrigerated Vending Machine, Com, E - Refr	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.63	0.654	0.692	0.740	0.792	0.813	0.825	0.834	0.842	0.850
3937	Walk In Refrigeration, Com, E - Refr	C&I	C&I New Construction	Warehouse	NC	Y	0.45	0.471	0.514	0.563	0.621	0.640	0.651	0.656	0.658	0.659
3938	Refrigeration Turn Up, Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	0.03	0.031	0.042	0.053	0.064	0.077	0.088	0.097	0.098	0.098
3939	Walk In Cooler Retrofit, Com, E - Refr	C&I	C&I Retrofit	Warehouse	RET	Y	0.015	0.027	0.047	0.068	0.085	0.087	0.088	0.089	0.088	0.089
3940	Ovens, Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3941	Ovens, Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3942	Fryers, Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3943	Fryers, Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3944	Steamers, Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3945	Steamers, Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3946	Griddles, Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3947	Griddles, Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3948	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I New Construction	Warehouse	NC	Y	0.21	0.283	0.367	0.458	0.559	0.576	0.586	0.591	0.592	0.593
3949	Hot Food Holding Cabinet, Com, E - Cook	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.21	0.295	0.387	0.486	0.600	0.624	0.642	0.654	0.662	0.669
3950	Motors, Com, E - Oth	C&I	C&I New Construction	Warehouse	NC	Y	0.6375	0.619	0.622	0.618	0.615	0.605	0.599	0.595	0.594	0.593
3951	Motors, Com, E - Oth	C&I	C&I Retrofit	Warehouse	RET	Y	0.009	0.009	0.012	0.016	0.021	0.025	0.029	0.036	0.038	0.038
3952	Motors, Com, E - Oth	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.6375	0.636	0.636	0.625	0.611	0.585	0.558	0.578	0.600	0.623
3953	ECM Circulators, Com, E - Oth	C&I	C&I Retrofit	Warehouse	RET	Y	0.0125	0.020	0.030	0.044	0.060	0.064	0.066	0.067	0.067	0.068
3954	VFDs on HVAC Pumps, Com, E - Oth	C&I	C&I Retrofit	Warehouse	RET	Y	0.04	0.050	0.058	0.066	0.074	0.083	0.084	0.084	0.085	0.086
3955	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.04	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
3956	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3957	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.04	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.377
3958	EMS, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3959	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.04	0.047	0.061	0.082	0.115	0.161	0.217	0.276	0.330	0.375
3960	EMS, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.009	0.011	0.014	0.018	0.024	0.031	0.037	0.043	0.047	0.051
3961	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
3962	Deep Energy Retrofit, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.001	0.001	0.002	0.002	0.003	0.004	0.006	0.007	0.008	0.009
3963	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.15	0.186	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
3964	Integrated Building Design, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.146	0.186	0.189	0.211	0.237	0.244	0.255	0.270	0.286	0.301
3965	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
3966	Commissioning, Com, E - TotE (Building w Elec Heat)	C&I	C&I New Construction	Warehouse	NC	Y	0.325	0.331	0.348	0.361	0.370	0.373	0.367	0.350	0.329	0.307
3967	RXC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.01	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3968	RXC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.01	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3969	RXC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.01	0.015	0.020	0.025	0.030	0.031	0.031	0.031	0.032	0.032
3970	Pneumatic to DDC, Com, E - TotE (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3971	Pneumatic to DDC, Com, E - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3972	Pneumatic to DDC, Com, G - TotE (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	N	0.008	0.014	0.022	0.032	0.044	0.050	0.054	0.057	0.059	0.060
3973	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I New Construction	Warehouse	NC	Y	0.18	0.191	0.211	0.236	0.252	0.236	0.189	0.094	0.048	0.000
3974	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Retrofit	Warehouse	RET	Y	0.0075	0.017	0.026	0.036	0.037	0.038	0.038	0.038	0.041	0.045
3975	Power Strip, Com, E - Plug (Tier 1)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.18	0.194	0.210	0.227	0.238	0.218	0.169	0.082	0.033	0.000
3976	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I New Construction	Warehouse	NC	Y	0.12	0.133	0.153	0.178	0.214	0.249	0.287	0.317	0.355	0.400
3977	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Retrofit	Warehouse	RET	Y	0.0	0.000	0.001	0.002	0.005	0.012	0.019	0.026	0.032	0.035
3978	Power Strip, Com, E - Plug (Tier 2)	C&I	C&I Equipment Replacement	Warehouse	REPL	Y	0.12	0.138	0.160	0.188	0.230	0.292	0.381	0.498	0.612	0.717
3979	Computer Power Management, Com, E - Plug	C&I	C&I Retrofit	Warehouse	RET	Y	0.01	0.019	0.029	0.037	0.044	0.048	0.050	0.052	0.056	0.061
3980	Vending Machine Controls, Com, E - Plug (Non-Refrigerated)	C&I	C&I Retrofit	Warehouse	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
3981	Vending Machine Controls, Com, E - Plug (Refrigerated)	C&I	C&I Retrofit	Warehouse	RET	Y	0.001	0.002	0.003	0.005	0.009	0.016	0.026	0.035	0.044	0.051
3982	Duct Sealing Regulated, Com, E - Heat (Building w Gas Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.0025	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3983	Duct Sealing Regulated, Com, E - Heat (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.0025	0.005	0.008	0.010	0.013	0.017	0.021	0.024	0.028	0.032
3984	Duct Sealing Regulated, Com, E - Cool (Building w Elec Heat)	C&I	C&I Retrofit	Warehouse	RET	Y	0.0									

4045	Programmable TStat_Com, E - Cool [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.6	0.560	0.486	0.339	0.199	0.122	0.094	0.085	0.085	0.085
4046	Programmable TStat_Com, E - Cool [Building w Gas Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4047	Programmable TStat_Com, G - Heat [Building w Gas Heat]	C&I	C&I New Construction	Warehouse	NC	Y	0.6	0.560	0.485	0.340	0.200	0.122	0.094	0.085	0.085	0.084
4048	Programmable TStat_Com, G - Heat [Building w Gas Heat]	C&I	C&I Retrofit	Warehouse	RET	Y	0.02	0.010	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4049	Indus Pro Drives_Ind, E - Driv	C&I	C&I Retrofit	Industrial	RET	Y	0.04	0.046	0.053	0.059	0.066	0.072	0.079	0.080	0.080	0.081
4050	Indus Pro Motors and VSDs_Ind, E - Motr [Building w Elec Heat]	C&I	C&I Retrofit	Industrial	RET	Y	0.04	0.046	0.053	0.059	0.066	0.072	0.079	0.080	0.080	0.081
4051	Indus Pro Air Compressor System_Ind, E - CAS	C&I	C&I Retrofit	Industrial	RET	Y	0.04	0.046	0.053	0.059	0.066	0.072	0.079	0.080	0.080	0.081
4052	Indus Pro Ele Process Cooling_Ind, E - PrC	C&I	C&I Retrofit	Industrial	RET	Y	0.035	0.040	0.045	0.050	0.055	0.060	0.066	0.066	0.067	0.067
4053	Indus Pro Ele Process Heat_Ind, E - PRH	C&I	C&I Retrofit	Industrial	RET	Y	0.035	0.040	0.045	0.050	0.055	0.060	0.066	0.066	0.067	0.067
4054	Indus Pro Elec Other_Ind, E - Oth	C&I	C&I Retrofit	Industrial	RET	Y	0.04	0.045	0.051	0.057	0.063	0.069	0.075	0.076	0.076	0.077
4055	Indus Pro NG Process Heat_Ind, G - PRH	C&I	C&I Retrofit	Industrial	RET	Y	0.03	0.037	0.053	0.066	0.077	0.075	0.074	0.075	0.075	0.076
4056	Indus Pro NG Process Cool_Ind, G - PrC	C&I	C&I Retrofit	Industrial	RET	Y	0.03	0.037	0.053	0.066	0.077	0.075	0.074	0.075	0.075	0.076
4057	Indus Pro NG Other_Ind, G - Oth	C&I	C&I Retrofit	Industrial	RET	Y	0.03	0.044	0.065	0.079	0.084	0.067	0.054	0.047	0.044	0.044
4058	Indus No_Ind, E - Intl [Electrically Heated Bldg]	C&I	C&I Retrofit	Industrial	RET	Y	0.045	0.053	0.061	0.070	0.079	0.079	0.080	0.080	0.081	0.082
4059	Indus No_Ind, E/G - Intl [NG Heated Bldg]	C&I	C&I Retrofit	Industrial	RET	Y	0.045	0.053	0.061	0.070	0.079	0.079	0.080	0.080	0.081	0.082
4060	Indus Non Pro Ele Space Cool_Ind, E - Cool	C&I	C&I Retrofit	Industrial	RET	Y	0.045	0.055	0.066	0.077	0.088	0.088	0.089	0.090	0.091	0.091
4061	Indus Non Pro Ele Space Heat_Ind, E - Heat	C&I	C&I Retrofit	Industrial	RET	Y	0.03	0.058	0.087	0.097	0.097	0.082	0.077	0.076	0.076	0.077
4062	Indus Non Pro Ele Other_Ind, E - Oth [Building w Elec Heat]	C&I	C&I Retrofit	Industrial	RET	Y	0.04	0.045	0.051	0.057	0.063	0.069	0.075	0.076	0.076	0.077
4063	Indus Non Pro NG Space Heat_Ind, G - Heat	C&I	C&I Retrofit	Industrial	RET	Y	0.03	0.058	0.086	0.097	0.096	0.081	0.076	0.075	0.075	0.076
4064	Indus Non Pro NG Other_Ind, G - Oth	C&I	C&I Retrofit	Industrial	RET	Y	0.03	0.044	0.065	0.079	0.084	0.067	0.054	0.047	0.044	0.044
4065	Indus SEM #1_Ind, E/G - TotE	C&I	C&I Retrofit	Industrial	RET	Y	0.06	0.070	0.075	0.070	0.061	0.058	0.060	0.064	0.071	0.077
4066	Indus SEM #2_Ind, E/G - TotE	C&I	C&I Retrofit	Industrial	RET	Y	0.06	0.070	0.075	0.070	0.061	0.058	0.060	0.064	0.071	0.077
4067	Indus SEM #3_Ind, E/G - TotE	C&I	C&I Retrofit	Industrial	RET	Y	0.06	0.070	0.075	0.070	0.061	0.058	0.060	0.064	0.071	0.077