BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Duke)	
Energy Ohio, Inc., for Approval of its)	Case No. 16-576-EL-POR
Energy Efficiency and Peak Demand)	
Reduction Portfolio of Programs.)	

DUKE ENERGY OHIO, INC.'S APPLICATION FOR ENERGY EFFICIENCY AND PEAK DEMAND REDUCTION PORTFOLIO OF PROGRAMS

I. Introduction

Now comes Duke Energy Ohio, Inc, (Duke Energy Ohio) pursuant to R.C. 4928.66, as amended by Substitute Senate Bill Number 310 (SB310) and Rule 4901:1-39-04, Ohio Administrative Code (O.A.C.), and submits its proposed portfolio of energy efficiency and demand reduction programs. Duke Energy Ohio is an electric distribution utility as defined in R.C. 4928.01(A)(6), and is therefore required by R.C. 4928.66, *et seq.*, to implement energy efficiency and peak demand reduction programs designed to achieve energy savings.

Duke Energy Ohio submitted its last energy efficiency and peak demand reduction portfolio for approval by the Public Utilities Commission of Ohio (Commission) on April 15, 2013. The Commission approved the portfolio on December 4, 2013 and it was effective through 2016.

A. Background and History and Executive Summary

Duke Energy Ohio has been offering energy efficiency programs since as early as 1992. In 1992, Duke Energy Ohio formed a collaborative to develop and implement energy efficiency programs to help reduce the electrical demand of customers. The Company has worked

effectively with its Collaborative since then and has continuously offered energy efficiency programs for its customers.

In 2006, Duke Energy Ohio filed an application with the Public Utilities Commission of Ohio (Commission), seeking approval to implement a new expanded set of energy efficiency programs. On July 11, 2007, the Commission approved the new set of energy efficiency programs for implementation. As part of the proceeding on the Company's Electric Security Plan (ESP) in 2008, the Company filed an application for approval to implement its save-a-watt set of energy efficiency programs. As noted earlier, the Company filed the proposed programs on July 31, 2008, and the Commission subsequently approved the save-a-watt set of programs on December 17, 2008, for implementation for the years 2009 through 2011. On December 29, 2009, the Company filed an updated portfolio plan for approval. The portfolio, except for prepaid metering, was approved on December 15, 2010, for implementation through April 15, 2013.

In 2011, in an earlier attempt to bridge the gap between the misalignment of its portfolio plan approved in Case No. 09-1999-EL-POR, and its expiring save-a-watt recovery model, Duke Energy Ohio submitted an energy efficiency portfolio and cost recovery mechanism to the Commission for its approval in Case No. 11-4393-EL-RDR, *et al.* The Company was able to resolve most of the substantive issues in its application with most of the parties, in a Stipulation and Recommendation that was filed with the Commission in November, 2011. After receiving

¹ In the Matter of the Application for Recovery of Costs, Lost Margin, and Performance Incentive Associated with the Implementation of Electric Residential Demand Side Management Programs by the Cincinnati Gas & Electric Company, Case No. 06-91-EL-UNC, Application (January 24, 2006)

² *Id.* Opinion and Order, (July 11, 2007)

³ In re Duke Energy Ohio's Application for an SSO, Case No. 08-920-EL-SSO, et seq., Application, (July 31, 2008) ⁴ In re Duke Energy Ohio's Application for an SSO, Case No. 08-920-EL-SSO, et seq., Opinion and Order, (December 17, 2008)

⁵ In re Duke Energy Ohio's Application for a POR, Case No. 09-1999-EL-POR, Application, (December 29, 2009) ⁶ In re Duke Energy Ohio's Application for a POR, Case No. 09-1999-EL-POR, Opinion and Order, (December 15, 2010)

further direction from the Commission in its May 9, 2012 Opinion and Order, the Company requested the Commission grant it a waiver of a Rule in Chapter 4901:1-39, O.A.C., and approve its application based upon the information contained. The waiver was granted on August 15, 2012, within the Order approving the implementation of three new programs, as well as a shared savings cost recovery mechanism. The three new approved programs were, 1) Low Income Neighborhood Program, 2) Appliance Recycling, and 3) Home Energy Solutions. Duke Energy Ohio filed a portfolio including a Market Assessment and Action plan⁷, for program years 2014 – 2016.

With this Application, the Company seeks approval pursuant to 4901:1-39-04, O.A.C., for a new portfolio of energy efficiency and peak demand reduction programs. In support of its Application, Duke Energy Ohio also submits testimony in this proceeding. Duke Energy Ohio witness Trisha A. Haemmerle provides an overview of the Application, the relevant incentive and recovery mechanism, and the Company's intent to participate in the PJM Capacity Auction. This testimony also describes the details of the new portfolio with respect to cost effectiveness and measurement and verification of outcomes. Duke Energy Ohio witness Kevin A. Bright explains residential and non-residential program implementation, and Duke Energy Ohio witness James E. Ziolkowski testifies concerning revenue requirements and rate implementation.

The programs included herein were proposed and approved by the Commission in the Company's program portfolio plan, Case No. 13-0431-EL-POR, and are currently being offered.⁸ In addition to the approved portfolio a new program, Small Business Energy Saver, was filed and approved on September 10, 2014 in Case No. 14-964-EL-POR, as well as, a Weatherization Pilot approved on May 15, 2013 in Case No. 13-662-EL-UNC. The Company

-

⁷ Case No. 13-0431-EL-POR

⁸ In re Duke Energy Ohio's Application for a RDR, Case No. 13-0431-EL-POR, Opinion and Order, (December 4, 2013)

proposes to continue most of these programs, and proposes to add additional measures to many of the existing programs.

Residential Programs

Prior Program Name	New Program Name	Program Description
		The Energy Education Program for Schools is designed to
		educate students on the value of energy efficient behavior,
		promote on-site school audits and encourage students to
Energy Efficiency Education Program for Schools	Energy Efficiency Education Program for Schools	install energy efficiency measures in the home.
		Compares household electric usage to similar, neighboring
		homes, and provides recommendations to lower energy
Home Energy Comparison Report	My Home Energy Report (MyHER)	consumption
		Takes a non-traditional approach to serving income-
		qualified areas of the Duke Energy Ohio service territory by
		providing weatherization services, home audits and
Low Income Neighborhood Program	Low Income Neighborhood Program	installation of energy efficiency measures.
		A free on-site energy audit designed to help residential
		customers realize cost savings on their monthly energy
Residential Energy Assessments	Residential Energy Assessments	bills through a more energy efficient home.
		Offers customers a variety of energy conservation
		measures designed to increase energy efficiency in their
Smart \$aver® Residential	Smart \$aver® Residential	homes.
		The Low Income Weatherization Pay for Performance
		program is designed to help Duke Energy Ohio income-
		qualified customers reduce their energy consumption and
Weatherization Pilot	Pay for Performance Weatherization	lower their energy cost.
Power Manager	Power Manager®	Residential Load Control Program
NEW PROGRAM	Power Manager® for Apartments	Residential Load Control Program

Smart \$aver® Residential – This program includes measures for lighting, HVAC Equipment and Services, Save Water and Energy Kits, and Multifamily products and services.

Residential Lighting

The Residential Lighting measures within the Smart \$aver® Program provides customers with a variety of energy efficient lighting options that can be leveraged through three delivery channels, a Free LED offer, an online Specialty Lighting offer and a retail-based LED lighting offer.

HVAC Equipment and Services

The HVAC Equipment and Services measures within the Smart \$aver® Program offers incentives to customers for installing high efficiency HVAC measures including attic insulation and sealing, duct insulation and sealing, heat pump water heaters, and variable speed pool

pumps. In addition to the current program, a smart thermostat has been added to fill out the measures and make the program even more comprehensive.

Save Energy and Water Kit

The Save Energy and Water Kit ("SEWK") is designed to increase the energy efficiency of residential customers associated with the use of heated water by offering customers Insulated Pipe Tape and Low Flow Water Fixtures to install in high-use fixtures within their homes.

Multifamily Energy Efficiency Products & Services

The Multifamily Energy Efficiency Products & Services is a component of the program Duke Energy Ohio offers to target multifamily apartment complexes with energy efficiency products including, but not limited to efficient lighting and water saving measures.

Residential Energy Assessments – Residential Energy Assessments provides customers with a free in-home assessment designed to help them reduce energy usage and energy cost. An energy specialist completes a 60 to 90 minute walk through assessment of the home and analyzes energy usage specific to the home to identify energy saving opportunities. The Building Performance Institute ("BPI") certified energy specialist provides and reviews a customized report with the customer that contains the findings and identifies actions the customer can take to increase energy efficiency in their home. The recommendations will range from behavioral changes to equipment modifications that can save energy and reduce cost. The primary goal is to empower customers to better manage their energy usage.

Participating customers also receive an Energy Efficiency Kit that features a number of measures that can be directly installed by the energy specialist at the time of the assessment. The kit may include measures such as energy efficient lighting, low flow water measures, outlet/switch gaskets, weather stripping and energy saving tips.

Home Energy Comparison Report (My Home Energy Report – MyHER) - The My Home Energy Report ("MyHER") is an energy efficiency program based on behavioral science to motivate and enable energy efficient behavior. This program utilizes a peer group of homes similar in size, age, type of heating fuel and geography to highlight the customer's variance in energy use when compared to the "Average Home" and "Efficient Home" to engage the customer. The energy usage data features easy to read charts and visuals that illustrate how a customer's home performed in the last month and trended over the year as compared to the sample set via print and online channels. Further social motivation is introduced by establishing a value for an "Energy Efficient Home" within the peer group, as customers closest to the average are unlikely to be motivated to change their behavior. After engaging customers around their energy usage the reports provide customers with actionable energy efficiency tips and guidance, enabling them to become more energy efficient and lower their electric bills.

Currently the MyHER is only available to customers living in single family homes. The Company is developing a My Home Energy Report for multifamily homes as well. The report will be similar in the comparison data provided; however, multifamily dwellings will be compared to other multifamily dwellings and the tips on the report will be tailored to the behavior changes and efficiency changes a multifamily dwelling can make.

Energy Efficiency Education for Schools - The Energy Efficiency Education Program for Schools is available to students K-8 enrolled in public and private schools, who reside in households served by Duke Energy Ohio. The primary goal of this program is to educate students on the importance of energy conservation and teach them how to save energy in their homes. This program includes both an energy saving curriculum for the school classroom and an Energy Efficiency Starter kit provided to participating student household at no direct cost.

Low Income Neighborhood Program - The Low Income Neighborhood Program, known as Neighborhood Energy Saver or NES, assists low-income customers in reducing energy costs through energy education and installation of energy efficient measures. The primary goal of this program is to empower low-income customers to better manage their energy usage.

Customers participating in this program will receive a walk-through energy assessment and oneon-one education. Additionally, the customer receives an easy to install package of energy efficient measures.

Power Manager® - Power Manager® is a residential load control program. It is used to reduce electricity demand by controlling residential air conditioners and electric water heaters during periods of peak demand. A load control device is attached to the outdoor air conditioning unit of participating customers. For water heaters, the device is installed on or near the appliance. The device enables Duke Energy Ohio to cycle central air conditioning systems off and on when the load on Duke Energy Ohio's system reaches peak levels. The water heater device will enable Duke Energy Ohio to cycle off electric water heaters during times of high electric demand—year round.

Low Income Weatherization (Pay For Performance) - The Low Income Weatherization – Pay for Performance program is designed to help Duke Energy Ohio income-qualified customers reduce their energy consumption and lower their energy cost. This Program will specifically focus on customers that meet the income qualification level (*i.e.*, income below 200% of the federal poverty level). The weatherization program will also educate customers on their energy usage and other opportunities that can help reduce energy consumption and lower energy costs.

Duke Energy will work with Community agencies to leverage the Ohio Home Weatherization Assistance Program to provide customers with weatherization services and other energy efficient measures such as refrigerators, water saving devices and efficient lighting. Agencies will be reimbursed a set amount per measure installed in Duke Energy customers' homes based on the average kWh savings per measure.

Low Income Services – The Weatherization and Refrigerator Replacement program is available to all customers within Duke Energy's service territory, with a household income up to 200% of the federal poverty level and who have not participated in the program within the past 10 years. Due to vendor negotiations, the program will no longer be a standalone program however income qualified customers will be eligible to receive refrigerator replacement and weatherization through the Low Income Weatherization Pay for Performance program. Duke Energy Ohio will continue to evaluate a standalone program.

New Residential Program: Power Manager® for Apartments - Power Manager® for **Apartments** is residential load control program focused Apartment Complexes/Communities. It is used to reduce electricity demand by controlling residential air conditioners and when available, electric water heaters during periods of peak demands. A load control switch is attached to the outdoor air conditioning unit and water heater of participating customers. This enables Duke Energy Ohio to cycle central air conditioning systems off and on when the load on Duke Energy Ohio's system reaches peak levels during the cooling season. In addition, this program enables Duke Energy Ohio to cycle the electric water heaters off when the load on the system reaches peak levels—any time of year.

Discontinued Residential Programs:

Appliance Recycling Program - The Appliance Recycling Program promotes the removal and responsible disposal of operating refrigerators and freezers from Duke Energy Ohio residential customers. This program recycles approximately 95% of the material from the harvested appliances. The refrigerator or freezer must have a capacity of at least 10 cubic feet but not more than 30 cubic feet. This program includes a free pick up at the customer's home and provides a cash incentive for qualified appliances.

On November 19, 2015, JACO, the implementation vendor, went into receivership and abruptly discontinued operations. Duke Energy analyzed the long-term design and viability of the program as well as the potential to issue a request for proposal for an alternative program vendor. Unfortunately, given the verified impacts compared to the cost of the program, Duke Energy Ohio will not be including Appliance Recycling in its portfolio, but will continue to research the program and determine if a cost effective approach to reaching this opportunity for efficiency can be developed.

Home Energy Solutions - Home Energy Solutions (HES), which is formally being marketed as HōMTM Energy Manager, provides customers with up to 2 free Wi-Fi enabled, programmable thermostats with professional installation. They also have full access to an online customer engagement portal that is accessible through mobile devices, tablets and PCs with Internet access. The portal allows customers to control their energy usage by adjusting their temperature settings, viewing energy efficiency tips and reviewing their historical energy usage compared to similar homes and neighbors.

Due to the verified impacts and the on-going cost of the program, Duke Energy Ohio is not planning on offering this program beyond 2016. The Company will review and evaluate the Assessment of Potential Study results to determine if this program can be offered in a modified format that will allow it to be cost-effective. In the interim, because the Company offers customers Power Manager[®] and will be offering a smart thermostat within Smart \$aver[®] Residential, Duke Energy Ohio is providing customers with alternative approaches to realize a portion of the Home Energy Solutions benefits.

Non-Residential Programs

Prior Program Name	New Program Name	Program Description	
		Provides incentives to commercial and industrial	
		consumers for installation of high efficiency equipment in	
		applications involving new construction, retrofit, and	
Smart \$aver® Prescriptive	Smart \$aver® Prescriptive	replacement of failed equipment.	
		The purpose of this program is to encourage the	
		installation of high efficiency equipment in new and	
Smart \$aver® Custom	Smart \$aver® Custom	existing nonresidential establishments	
		The purpose of this program is to reduce energy usage	
		through the direct installation of energy efficiency	
		measures within qualifying small non-residential customer	
Small Business Energy Saver	Small Business Energy Saver	facilities	
		Duke Energy Ohio's Non-Residential Peak Load	
PowerShare®	PowerShare®	Management Program	
		Duke Energy Ohio's Non-Residential Peak Load	
NEW PROGRAM	Power Manager® for Business	Management Program	

Smart \$aver® Prescriptive - The Smart \$aver® Non-Residential Prescriptive Incentive provides incentives to commercial and industrial consumers for installation of energy efficient equipment in applications involving new construction, retrofit, and replacement of failed equipment. This program also uses incentives to encourage maintenance and operations of existing equipment in a manner that allows its efficiency to be enhanced in order to reduce energy usage. Incentives are provided based on Duke Energy Ohio's cost effectiveness modeling to assure cost effectiveness over the life of the measure.

Smart \$aver® Custom - Duke Energy's Smart \$aver® Non-Residential Custom Incentive offers financial assistance to qualifying commercial, industrial and institutional customers to enhance their ability to adopt and install cost-effective electrical energy efficiency projects.

This program is designed to meet the needs of Duke Energy customers with electrical energy saving projects involving more complicated or alternative technologies, or those measures not covered by standard Prescriptive Smart \$aver[®] Incentives.

Small Business Energy Saver - The objective of the Small Business Energy Saver ("SBES") is to enable the installation of high efficiency equipment in existing small non-residential facilities. SBES is designed to offer a convenient, turn-key process for non-residential customers with energy usage below a certain threshold. SBES launched in November, 2014 in Ohio and has been popular and successful with small business customers since inception. Small business owners typically lack the time, upfront capital, and technical expertise to facilitate the retrofit or replacement of older equipment within their facilities. This program effectively removes these barriers by offering a turn-key energy efficiency offering which facilitates the direct installation of energy efficiency measures, and minimizes financial obstacles with significant upfront incentives from Duke Energy Ohio which offset the cost of projects.

PowerShare[®] - PowerShare[®] is Duke Energy Ohio's demand response program geared toward Commercial and Industrial customers. The primary offering under PowerShare[®] is named CallOption and it provides customers a variety of offers that are based on their willingness to shed load during times of peak system usage. These credits are received regardless of if an event is called or not. Energy credits are also available for participation (shedding load) during curtailment events. The notice to curtail under these offers is 30 minutes (to be consistent with

the timing of an emergency event called by PJM) and there are penalties for non-compliance during an event.

New Non-Residential Program: Power Manager® for Business - Power Manager® for Business is a non-residential program that provides business customers with the opportunity to participate in demand response, earn incentives and realize optional energy efficiency benefits. This program is designed as a flexible offer that provides small-to-medium size business customers with options on device types as well as level of demand response participation. Customers first select the type of device from two available options: thermostat or switch. Customers who opt for the thermostat will have the ability to manage their thermostat remotely via computer, tablet or smartphone. The thermostat comes with presets designed to help the business manager/owner set an efficient schedule that works for their business. This realizes additional benefits in the form of EE impacts/savings. Customers then select one of three levels of summer demand response ("DR") participation, and earn an incentive based upon that selection.

Both thermostat and switch customers have the same DR participation options, and receive the same DR incentives.

4901:1-39-04(C) (1) Executive Summary Continued

This portfolio of programs represents a comprehensive peak demand reduction and energy efficiency plan of action. The approach being pursued through the continuation of existing programs, introduction of new proposed programs and the addition of multiple new measures will provide market access for cost-effective demand reduction and energy efficiency

for all customer classes. In addition to the Company proposed programs, Duke Energy Ohio also offers the Self Direct program available to qualifying Mercantile customers.

Implementation of Duke Energy Ohio's portfolio of programs is expected to enable Duke Energy Ohio to meet or exceed the statutory benchmarks for peak demand reduction and energy efficiency for the timeframe of this portfolio, January 1, 2017 – December 31, 2019.

In compliance with the requirements of 4901:1-39, O.A.C, Duke Energy Ohio is in the process of having an Assessment of Potential study completed. Duke Energy Ohio will file the completed energy efficiency market potential study that is being prepared by Nexant to address any potential gaps in its program offerings. Duke Energy Ohio respectfully requested a waiver⁹ for Rule 4901:1-39-04(A) and requested an October 15, 2016 due date. The Commission ruled that an extension would be granted to June 15, 2016. This expedited date will not allow enough time for Nexant to complete its thorough assessment of potential study that will be utilized to make sure its portfolio is comprehensive and consistent with the changes made to the counting of energy efficiency savings that were instituted with the passage of Ohio SB 310 in 2014. Duke Energy Ohio respectfully requested an extension 10 to file the assessment of potential study to October 15, 2016 along with the opportunity to adjust the portfolio with the results from the study including the historical performance versus the baselines. On June 13, 2016 the Commission ordered the assessment of potential study to be filed on August 15, 2016. Duke Energy Ohio will file the study on or before August 15 and will integrate the findings into its programs and amend its filing as necessary by October 15, 2016 as discussed with the Duke Energy Community Partnership (Collaborative).

_

⁹ Case No. 16-0576-EL-POR

¹⁰ Case No. 16-1017-FL-WVR

4901:1-39-03 Program Planning Requirements

(A) Assessment of potential.

Prior to proposing its comprehensive energy efficiency and peak-demand reduction program portfolio plan, an electric utility shall conduct an assessment of potential energy savings and peak-demand reduction from adoption of energy efficiency and demand-response measures within its certified territory, which will be included in the electric utility's program portfolio filing pursuant to rule 4901:1-39-04 of the Administrative Code. An electric utility may collaborate with other electric utilities to co-fund or conduct such an assessment on a broader geographic basis than its certified territory. However, such an assessment must also disaggregate results on the basis of each electric utility's certified territory. Such assessment shall include, but not be limited to, the following:

(1) Analysis of technical potential. Each electric utility shall survey and characterize the energy-using capital stock located within its certified territory and quantify its actual and projected energy use and peak demand. Based upon the survey and characterization, the electric utility shall conduct an analysis of the technical potential for energy efficiency and peak-demand reduction obtainable from applying alternate measures.

Duke Energy contracted with Nexant to perform a Market Potential Study which includes an analysis of technical potential based on the current state of energy-using equipment located in the Duke Energy Ohio territory. This Market Potential study is expected to be completed by August 15, 2016 and the results of this study will be used to further refine the EE and DR portfolio submitted by the Company in this filing.

(2) Analysis of economic potential. For each alternate measure identified in its assessment of technical potential, the electric utility shall conduct an assessment of cost-effectiveness using the Total Resource Cost test.

As part of the Market Potential Study referenced above, Nexant will also provide an analysis of the Economic Potential as calculated using the total resource cost test.

(3) Analysis of achievable potential. For each alternate measure identified in its analysis of economic potential as cost-effective, the electric utility shall conduct an analysis of achievable potential. Such analysis shall consider the ability of the program design to overcome barriers to customer adoption, including, but not limited to, appropriate bundling of measures.

As part of the Market Potential Study referenced above, Nexant will provide an analysis of a set of bundled measures that will be designed to overcome barriers to customer adoption.

(4) For each measure considered, the electric utility shall describe all attributes relevant to assessing its value, including, but not limited to potential energy savings or peak-demand reduction, cost, and non-energy benefits.

This information will be included within the final version of the Market Potential Study. Duke Energy Ohio will use this information to adjust the portfolio with the results from the study including the historical performance versus the baselines.

4901:1-39-04(C) (2) Stakeholder Participation

As noted above, Duke Energy Ohio works closely and cooperatively with external stakeholders through the Collaborative process. The Company's energy efficiency Collaborative first began in 1992. Since that time, the Company has continued to engage with its Collaborative members on the design and operation of existing programs as well as ideas for new programs. Duke Energy Ohio seeks to obtain consensus approval from the Collaborative on proposals to be

filed with the Commission. This same approach was employed in the development of the Company's current programs, which were filed and subsequently approved by the Commission for implementation through December 31, 2016, and is being used with respect to the portfolio of programs that the Company is requesting approval of in this application. Duke Energy has had meetings with external stakeholders and a Duke Energy Collaborative meeting to discuss the portfolio.

4901:1-39-04 (C) (3) Other Public Utilities' Programs

Although Duke Energy Ohio does not coordinate its programs with the other public utilities, it does participate in ongoing dialogue with some of the other utilities to understand both the successes and challenges associated with each company's portfolios of programs. The Company does coordinate the design and implementation of its programs with its affiliate utility located in Northern Kentucky as well as with all other utility affiliates of Duke Energy (Duke Energy Kentucky, Duke Energy Indiana, and Duke Energy Carolinas).

4901:1-39-04 (C) (4) Existing Programs

Duke Energy Ohio began implementation of its existing programs on August 15, 2012. Below, the Company provides the response to the requested items for each of the existing previously approved programs as well as a description of a proposed program and additional information as required by O.A.C. 4901:1039-04(C)(5).

New Proposed Programs

The Company is proposing two new programs within this application. The programs are a residential program called "Power Manager[®] for Apartments" and a non-residential program called "Power Manger[®] for Business". Both programs were presented to the Collaborative in the second quarter 2016 meeting. Information related to these new proposed programs is discussed in the testimony of Duke Energy Ohio witness Kevin A. Bright, included with this Application.

Descriptions Applicable to All Programs

In Rule 4901:1-39-04 (C)(5)(a) to (l), O.A.C., there are a few elements for which the response is essentially the same for all of the existing and new programs. These are the information requests under Rule 4901:1-39-04 (C)(5)(b), (d), (e), (k), (l), O.A.C. The common responses are provided below.

Rule 4901:1-39-04(C)(5)(b) O.A.C.: ¹¹ Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

Rule 4901:1-39-04(C)(5)(d) O.A.C.: The Company is seeking implementation approval of three years duration for each program.

Rule 4901:1-39-04(C)(5)(e) O.A.C.: An estimate of the level of program participation is included in the table provided in response to Rule 4901:1-39-04(C)(5)(b) O.A.C.

Rule 4901:1-39-04(C)(5)(k), O.A.C.: For the proposed market transformation activities, if any, which have been identified and proposed to be included in the program portfolio plan, the common response is:

Promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue

¹¹ For Energy Efficiency Programs

to examine the level of free ridership in each of these programs as a potential indicator of market transformation.

Rule 4901:1-39-04(C)(5)(I) O.A.C.: The evaluation, measurement, and verification plans for each program are provided in Exhibit TAH1, that is included with the testimony of Trisha A. Haemmerle.

4901:1-39-04 (B) - Cost Effectiveness of Programs

The cost-effectiveness test results for the new programs are provided below in Table 1 below. Following the table are descriptions of each of the programs proposed for inclusion with the Company's Portfolio.

Table 1:

Program/Portfolio Cost Effectiveness - 2017-2019					
Program	UCT	TRC	RIM	РСТ	
	UCI	TIC	IVIIVI	FCI	
Residential Programs - EE Energy Efficiency Education Program for Schools	3.22	4.51	2.03		
Home Energy Comparison Report	1.73	1.73	1.06		
Low Income Neighborhood Program	0.64	1.34	0.58		
Power Manager®	7.46	15.10	7.46		
Power Manager® for Apartments	2.08	3.14	2.08		
Residential Energy Assessments	1.15	1.26	0.94		
Smart Saver Residential	1.75	1.69	1.26	4.55	
Low Income Weatherization - Pay for Performance	4.99	4.99	2.67		
Total	3.24	3.76	2.39	7.53	
Non-Residential Programs					
Mercantile Self-Direct	3.69	0.73	2.59	1.24	
Power Manager® for Business	3.07	4.84	3.02		
PowerShare®	2.71	10.52	2.71		
Small Business Energy Saver	3.05	1.82	2.45	2.53	
Smart \$aver Non Residential Custom	2.81	0.80	2.10	1.47	
Smart \$aver Non Residential Prescriptive	1.94	1.13	1.62	1.96	
Total	2.63	1.40	2.18	1.92	
Overall Portfolio Total	2.94	2.17	2.30	2.85	

^{*}Programs without a Participant Test Score (PCT) are programs without participant costs resulting in a null participant score.

The following descriptions are in response to the requirements set forth in Rule 4901:1-39-04 (C) (4).

Program Name: Smart \$aver® Residential

(a) This program includes measures for lighting, HVAC Equipment and Services, Save Water and Energy Kits, and Multifamily products and services. The Residential Lighting measures within the Smart \$aver® Program have three basic components, a Free LED offer, an online Specialty Lighting offer and a retail-based LED lighting offer.

The HVAC Equipment and Services measures offers incentives to customers for installing high efficiency HVAC measures including attic insulation and sealing, duct insulation and sealing, heat pump water heaters, and variable speed pool pumps. In addition to the current program, a smart thermostat has been added as an available measure.

The Save Energy and Water Kit ("SEWK") is designed to increase the energy efficiency of residential customers by offering customers Low Flow Water Fixtures and Insulated Pipe Tape to install in high-use fixtures within their homes.

The Multifamily Energy Efficiency Products & Services will allow Duke Energy Ohio to utilize an alternative delivery channel which targets multifamily apartment complexes.

(b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact

results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	3,395	6,825	10,165
kWh	31,860,748	63,902,026	94,788,297
Participants	1,009,178	2,050,379	2,955,537

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participants (refers to number of measures installed)

- (c) Residential
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) Duke Energy Ohio served homeowners or renters currently residing or building a single family residence, condominium, duplex, apartment, or mobile home.

The Multifamily Energy Efficiency Products & Services program is available to Duke Energy Ohio served apartments on a residential rate.

- (g) The Program will be promoted by, but not limited to:
 - a. Email
 - b. Bill Messages
 - c. Bill Envelopes
 - d. Social Media
 - e. Direct Mail
 - f. Printed Collateral
 - g. Earned Media¹²
 - h. Other Duke Energy Program collaboration efforts
- (h) Third party vendors will be used

¹² Earned media refers to favorable publicity gained through promotional efforts other than advertising.

(i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$7,879,154	\$7,726,410	\$7,065,579

- (i) Varies by measure
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (1) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Residential Energy Assessments

(a) Residential Energy Assessments is a free in-home assessment designed to help customers reduce energy usage and energy cost. An energy specialist completes a 60 to 90 minute walk through assessment of the home and analyzes energy usage specific to the home to identify energy saving opportunities. The Building Performance Institute ("BPI") certified energy specialist provides and discusses a customized report to the customer that identifies actions the customer can take to increase energy efficiency in their home. The recommendations will range from behavioral changes to equipment modifications that can save energy and reduce cost. The primary goal is to empower customers to better manage their energy usage.

Customers receive an Energy Efficiency Kit with a variety of measures that can be directly installed by the energy specialist at the time of the assessment. The kit may include measures such as energy efficient lighting, low flow water measures,

outlet/switch gaskets, weather stripping and energy saving tips. Customers may also be eligible for additional energy efficient lighting.

(b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	204	409	617
kWh	1,670,100	3,356,901	5,060,402
Participants	17,500	35,175	53,025

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participants (refers to number of households participating)

- (c) Residential
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) Available to individually metered residential customers receiving concurrent service from the Company. On-site assessments are only available to owner-occupied single family residences with at least 4 months of billing history.
- (g) Program participation is primarily driven through targeted mailings to pre-qualified residential customers. To supplement this activity and keep acquisition costs low, e-mail marketing will be used when targeted customers have elected to receive offers

electronically. Utilizing two different marketing channels will increase awareness levels of the program, thus potentially increasing program participation.

Home Energy House Call program information and an online assessment request form is available at http://www.duke-energy.com/ohio/savings/home-energy-house-call.asp.

- (h) Various third party vendors are contracted for program administration, customer service/call center support and scheduling, and fulfillment of the energy efficiency kits. A Building Performance Institute (BPI) certified energy specialist conducts the in-home assessment.
- (i) The projected program budget:

	2017	,	2018	2019
Annual Utility Costs	\$ 1,033	,319 \$	\$ 1,057,844	\$ 1,063,925

- (j) Not applicable
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: My Home Energy Report

(a) The My Home Energy Report ("MyHER") is an energy efficiency program based on behavioral science to motivate energy efficient behavior. This program uses peer group of homes of similar size, age, type of heating fuel and geography to highlight the customer's variance in energy use when compared to the "Average Home" and "Efficient Home" of the peer group to engage the customer. The energy usage data

features easy to read charts and visuals that illustrate how a customer's home performed in the last month and trended over the year as compared to the sample set via print and online channels. Further social motivation is introduced by establishing a value for an "Energy Efficient Home" within the peer group, as customers closest to the average are unlikely to be motivated to change their behavior.

Currently the MyHER is only available to customers living in single family homes. The Company is developing a My Home Energy Report for multifamily homes as well. The report will be similar in the comparison data provided; however, multifamily dwellings will be compared to other multifamily dwellings and the tips on the report will be tailored to the behavior changes and efficiency changes a multifamily dwelling can make.

(b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	25,019	25,177	25,201
kWh	97,847,412	98,463,103	98,559,874
Participants	400,052	400,853	401,661

 $kW-Gross\ Cumulative\ Summer\ Coincident\ kW\ w/losses.\ kWh-Gross\ Cumulative\ kWh\ w/losses.$ $Participants-Cumulative\ Participants\ (refers\ to\ number\ of\ households\ participating)$

- (c) Residential
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) The audience is Duke Energy Ohio customers who are identified through demographic information as likely to decrease energy usage in response to the information contained in the My Home Energy Report document. These customers reside in individually-metered, single-family or multi-family residences receiving concurrent service from the Company.
- (g) The Program will be marketed through direct mail. The reports are also available to customers on-line or via mobile channels.
- (h) The My Home Energy Report is sent via direct mail and online to targeted Duke Energy Ohio customers with desirable characteristics who are likely to respond to the information. The reports are distributed up to 12 times per year; however delivery may be interrupted during the off-peak energy usage months in the fall and spring.

(i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$ 4,622,106	\$ 4,708,403	\$ 4,745,667

- (j) Not applicable
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Energy Efficiency Education Program for Schools

- (a) This program educates students in the classroom about sources of energy and energy efficiency in homes, and it provides students the ability to conduct an energy audit of their homes. After completing a home energy survey, participants receive an Energy Efficiency Starter Kit. The program is promoted to teachers and school administrators. Classroom material is enhanced by live theatre performances delivered to the entire school.
- (b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	863	1,727	2,590
kWh	3,209,568	6,419,136	9,628,704
Participants	6,000	12,000	18,000

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participants (refers to number of households participating)

- (c) Residential
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) Eligible participants include Duke Energy Ohio residential customers who reside in households with school-age children enrolled in public and private schools.
- (g) The Program will be promoted by, but not limited to:

- a. Direct mail
- b. Email
- c. Printed Collateral
- d. Social Media
- e. Earned media¹³

The program focuses on core educational concepts, including:

- o How electricity and energy are made
- Resources and uses of energy
- Ways energy is wasted
- How to conserve energy
- (h) School principals are the main point of contact and will schedule the performance at their convenience for the entire school. Once the principal has confirmed the performance date and time, two weeks prior to the performance, all materials are delivered to the principal's attention for distribution. Materials include school posters, teacher guides, and classroom and family activity books.
- (i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$ 503,192	\$ 506,039	\$ 507,834

- (j) Not applicable
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and

¹³ Earned media refers to favorable publicity gained through promotional efforts other than advertising.

behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.

(l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Power Manager®

- (a) Power Manager® is a residential load control program. It is used to reduce electricity demand by controlling residential air conditioners and electric water heaters during periods of peak demand. A load control switch is attached to the outdoor air conditioning unit of participating customers. For water heaters, the switch is installed on or near the appliance. The device enables Duke Energy Ohio to cycle central air conditioning systems off and on when the load on Duke Energy Ohio's system reaches peak levels. The water heater switch will enable Duke Energy Ohio to cycle off electric water heaters during times of high electric demand—year round.
- (b) Regarding the basis for the load impacts of Power Manager[®] and PowerShare[®], which have been evaluated annually for several years, Duke Energy Ohio has contracted third-party EM&V consultants to provide annual evaluations. These evaluations follow recommended industry practices, PJM guidelines, and/or are based on primary data collected from DR devices attached to the customers' air conditioner, data loggers, and interval/AMI meters. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	48,589	49,800	50,859
kWh	-	-	-
Participants	45,447	46,894	48,188

kW – Cumulative Summer Coincident kW w/losses. Participants – kW load reduction at the meter and prior to operability adjustments.

- (c) Residential
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) This program is available to Duke Energy Ohio residential customers residing in owner-occupied, single-family residences with a functioning outdoor air conditioning unit and/or eligible electric water heaters.
- (g) The Program may be promoted by, but not limited to:
 - a. Direct mail
 - b. Telemarketing
 - c. Promotion through other Duke Energy programs
 - d. Electronic channels such as Duke Energy's website and email.
- (h) A device is installed on participating customer air conditioning units and/or water heaters by a vendor contracted by Duke Energy Ohio. Once installed, the customer's A/C unit can be cycled off and back on during Power Manager events (May September).
- (i) The projected program budget:

	201	.7	2018	2019
Annual Utility Costs	\$ 2,05	8,344	\$ 1,984,209	\$ 2,039,294

- (j) Not applicable
- (k) The Company believes promoting investment in energy efficiency and demand response measures and customer engagement will advance the adoption of energy efficiency and demand response measures and behavior.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Low Income Neighborhood Program

- (a) The Duke Energy Ohio Neighborhood Program takes a non-traditional approach to serving income-qualified areas of the Duke Energy Ohio service territory. The program engages targeted customers with personal interaction in a familiar setting. Ultimately, the program aims to reduce energy consumption by directly installing measures and educating the customer on better ways to manage their energy bills.
- (b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	184	367	551
kWh	600,001	1,200,001	1,800,002
Participants	1,339	2,678	4,017

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participants (refers to number of households participating)

- (c) Low Income Residential
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) This program will be available to both homeowners and renters occupying single family and multi-family dwellings in the target neighborhoods that have electric service provided by Duke Energy Ohio.

- (g) The marketing strategy for this program will focus on a grassroots approach. The Program will be promoted by, but not limited to:
 - a. Direct mail
 - b. Social media
 - c. Door hangers
 - d. Press releases
 - e. Community presentations and partnerships
 - f. Inclusion in community publications such as newsletters, etc.
- (h) Third party vendors will be used
- (i) The projected program budget:

	2017		2018		2019	
Annual Utility Costs	\$	587,106	\$	588,437	\$	590,590

- (i) Not applicable
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Low Income Weatherization - Pay for Performance

(a) The Low Income Weatherization - Pay for Performance program is designed to help Duke Energy Ohio income-qualified customers reduce their energy consumption and lower their energy cost. This Program will specifically focus on customers that meet the income qualification level (*i.e.*, income below 200% of the federal poverty level). The

weatherization program will also educate customers on their energy usage and other opportunities that can help reduce energy consumption and lower energy costs.

Duke Energy will partner with the Ohio Home Weatherization Assistance Program to provide customers with weatherization services and other energy efficient measures such as refrigerators, water saving devices and efficient lighting. Agencies will be reimbursed a set fee per measure installed in Duke Energy customers' homes based on the average kWh savings per measure.

(b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	1,040	2,080	3,119
kWh	4,922,709	9,845,418	14,768,128
Participants	15,685	31,369	47,054

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participants (refers to per measure installed)

- (c) Low Income Residential
- (d) Three years (2017 2019)
- (e) See above (b)

- (f) This program will be available to both homeowners and renters occupying single family and multi-family dwellings that have electric service provided by Duke Energy Ohio.
- (g) The marketing strategy for this program will focus on utilizing low income agencies as the primary method for recruiting and informing customers of this program. Additional marketing will include mailers, flyers and direct contact between agencies and customers.
- (h) Third party vendors will be used
- (i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$ 890,149	\$ 893,994	\$ 896,213

- (i) Not applicable
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Non-Residential Smart \$aver® Prescriptive

(a) The Smart \$aver® Prescriptive program consists of over 250 measures including but not limited to the five broad technology categories of: Lighting, HVAC, Motors/Pumps/Drives, Energy Star Food Service Equipment, Process Equipment, and Information Technology. The incentives offered are designed to offset a portion of the capital cost of moving to higher efficiency equipment. Incentives are also offered to offset the cost of proactive maintenance on existing equipment. The incentive amounts are known to the customer

before they undertake their project, so the customer can proceed with their project and submit documentation after installation.

(b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	6,001	12,123	18,225
kWh	40,844,357	82,505,601	124,303,798
Participants	608,471	1,229,112	1,858,886

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participant (refers to number of measures installed)

- (c) Commercial, industrial and government facilities
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) All non-residential customers served by Duke Energy in Ohio are eligible for the Smart \$aver® program. Although customers may choose to opt-out of the Duke Energy program and energy efficiency rider.
- (g) The Program will be promoted by, but not limited to:
 - a. Existing market channels, equipment providers and contractors.
 - b. Email
 - c. Newsletters

- d. Direct Mail
- e. Duke Energy website
- f. Account and Segment Managers
- (h) The program offers predefined incentives based on current market assumptions and Duke Energy's engineering analysis. The eligible measures, incentives and requirements for both equipment and customer eligibility are listed in the applications posted on Duke Energy Ohio's Business and Large Business websites for each technology type.

(i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$ 6,562,791	\$ 6,725,816	\$ 6,878,144

- (i) Varies by measure
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Smart \$aver® Custom

(a) The Smart \$aver[®] Custom program is intended to capture quantifiable energy savings from projects that do not fit into the Prescriptive portfolio. A key difference between the Prescriptive and Custom programs is that the current Custom program requires that the customer submit an application before they begin their project. Proposed energy efficiency measures may be eligible for Custom Incentives if they clearly reduce electrical consumption and/or demand. Application forms are available on the Duke Energy

website under the Smart \$aver® Incentives Business and Large Business tabs. Once a project is submitted, it undergoes a technical review to validate the viability of the technology and the reasonableness of the energy savings claims. After the technical review, the energy savings are modeled against the customers load profile (or a representative load profile) to calculate the avoided energy and avoided capacity associated with the installation. At this point, the customer is tendered an incentive offer. Provided the customer acknowledges acceptance of the offer and completes the project, the customer is issued an incentive check after providing documentation showing completion of the project. Duke Energy Ohio reserves the right to adjust the incentive amount paid either up or down should the installation deviate from what was originally submitted. Potential incentive amounts are based on the avoided energy and avoided capacity produced by the measure(s).

Additionally, Duke Energy continually considers program process improvements that might enable greater participation. One such anticipated change is calculation assistance for customers that have proposed energy efficiency projects of sufficient value, as determined by Duke Energy, but that lack internal or other resources to perform the engineering calculations required by the Custom Incentive program.

Both the Smart \$aver® Prescriptive and Custom programs allow for customers to either receive their incentive checks directly, or to assign them to a vendor, provided the vendor reduces the amount invoiced to the customer by the amount of the incentive.

(b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs.

Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	2,689	4,921	7,220
kWh	23,557,184	43,109,647	63,248,684
Participants	15,702	28,735	42,159

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participants (refers to number of measures installed)

- (c) Commercial, industrial and government facilities
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) All Duke Energy Ohio non-residential customers who have not opted out are eligible to receive Custom Incentives.
- (g) Program promotional channels will include, but not be limited to:
 - a. Equipment providers, contractors, engineering firms and other trade allies.
 - b. Email
 - c. Newsletters
 - d. Direct Mail
 - e. Duke Energy website
 - f. Account and Segment Managers
- (h) The Custom Incentive Program was implemented in 2009 and will continue forward as an ongoing program with processes as described in section (a).
- (i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$ 3,008,863	\$ 2,659,400	\$ 2,751,076

- (j) Varies by measure
- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: Small Business Energy Saver

- (a) The objective of the Small Business Energy Saver ("SBES") is to enable the installation of high efficiency equipment in existing small non-residential facilities. SBES is designed to offer a convenient, turn-key process for small non-residential customers. SBES launched in November, 2014 in Ohio and has been popular and successful with small business customers since inception. Small business owners typically lack the time, upfront capital, and technical expertise to facilitate the retrofit or replacement of older equipment within their facilities. This program effectively removes these barriers by offering a turn-key energy efficiency offering which facilitates the direct installation of energy efficiency measures, and minimizes financial obstacles with significant upfront incentives from Duke Energy Ohio which offset the cost of projects.
- (b) Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs.

Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to update the program and measure impacts. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	5,907	11,617	16,659
kWh	26,257,838	51,639,429	74,051,858
Participants	24,713,200	48,601,700	69,695,700

kW – Gross Cumulative Summer Coincident kW w/losses. kWh – Gross Cumulative kWh w/losses. Participants – Cumulative Participant (refers to number of measures installed)

- (c) Commercial, industrial and government facilities
- (d) Three years (2017 2019)
- (e) See above (b)
- (f) Non-residential small business customers served by Duke Energy in Ohio are eligible for the Small Business Energy Saver Program.
- (g) The Program will be promoted by, but not limited to:
 - a. Existing market channels, equipment providers and contractors.
 - b. Email
 - c. Newsletters
 - d. Direct Mail
 - e. Duke Energy website
 - f. Account and Segment Managers
- (h) The program offers predefined incentives based on current market assumptions and Duke Energy's engineering analysis. The eligible measures, incentives and requirements for both equipment and customer eligibility are listed in the applications posted on Duke Energy Ohio's website.

(i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$ 5,252,572	\$ 5,098,983	\$ 4,524,267

(i) Varies by measure

- (k) The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.
- (l) The EM&V plans for each program are provided in Exhibit TAH1.

Program Name: PowerShare®

- (a) PowerShare[®] is Duke Energy Ohio's demand response program offered to commercial and industrial customers. The program offers various options for customers to choose from.
- (b) Regarding the basis for the load impacts of Power Manager® and PowerShare®, which have been evaluated annually for several years, Duke Energy Ohio has contracted third-party EM&V consultants to provide annual evaluations. These evaluations follow recommended industry practices, PJM guidelines, and/or are based on primary data collected from DR devices attached to the customers' air conditioner, data loggers, and interval/AMI meters. Appendix A includes the measures, impacts, and listing of source documentation.

	2017	2018	2019
kW	46,203	32,160	32,160
kWh	-	-	-
Participants	43,100	30,000	30,000

kW - Cumulative Summer Coincident kW w/losses. Participants - kW load reduction at the meter

(c) Non-residential customers

- (d) Three years (2017 2019)
- (e) See above (b)
- (f) All non-residential customers who are able to meet the load shedding requirements.
- (g) The Program will be promoted by, but not limited to:
 - a. Account and Segment Managers
- (h) In the QuoteOption portion of the program, customers receive notice of a price offer from Duke Energy Ohio to reduce load. Based on the price offered, the customer makes the decision as to whether or not they will reduce load. If a customer elects not to reduce load, there are no penalties for declining participation in the event. Participation is purely voluntary. The customer only receives a credit for the number of kilowatt-hours they reduced during the event, multiplied by the price offered by Duke Energy Ohio.

Under the CallOption program, customers receive a monthly credit for providing Duke Energy Ohio with the right to call on the customers load during emergency situations. Each of the CallOption offers consists of an emergency provision wherein the customer agrees to interruptions for curtailments initiated by the Regional Transmission Operator, PJM Interconnection, Inc., (PJM). For 2017-18, these offers are based upon the PJM program requirements for the years of this portfolio filing. In addition, when there is an emergency event customers receive an event credit based on 85% of the real-time Locational Marginal Price in the DEOK node during the emergency event hours.

(i) The projected program budget:

	2017	2018	2019
Annual Utility Costs	\$ 3,029,934	\$ 2,423,793	\$ 2,447,707

- (j) Not applicable
- (k) The Company believes promoting investment in energy efficiency and demand response measures and customer engagement will advance the adoption of energy efficiency and demand response measures and behavior.
- (1) The EM&V plans for each program are provided in Exhibit TAH1.

Program summaries for each program are available in Appendix B.

The following descriptions are in response to 4901:1-39-04 (C) (5).

Additional Programs

With respect O.A.C. Rule 4901:1-39-03(B) Program Design Criteria:

Power Manager® For Apartments

(1) Cost Effectiveness

Utility Test	TRC Test	RIM Test	Participant
			Test
2.08	3.14	2.08	Not Applicable

- (2) The program pays incentives to both the tenants and the landlord without any charges to customers—so both the landlord and tenants benefit from the program. Since this Demand Response program passes the RIM test (see "1" above) the program benefits are greater than program costs, and thus lowers overall electric rates for non-participating customers in the residential class
- (3) This program offering broadens the availability of the residential demand response program "Power Manager®" to those living in apartments that have central air conditioning or heat pumps. Apartments, on-average, contain few occupants and are less than half the size of a single family home—plus have the additional issue of not being

owner-occupied. It is actually the landlord who owns the appliances that can be controlled, and permission must first be attained from the landlord before a Power Manager[®] device can be installed. For those reasons, some modifications to the program design of Power Manager[®] were required in order to better meet the needs of this segment of the population. There are estimated to be about 30,000 apartment-dwelling customers of Duke Energy Ohio who will be eligible for this program.

Duke Energy Ohio has used a fairly conservative customer adoption rate of 10% cumulative participation of the eligible market through 6 years for the program.

(4) Regarding the basis for the load impacts, program managers and analysts produce the impact estimates using industry information from a variety of sources, including but not limited to, Morgan Marketing Partners, CleaResult, and/or other utility program information and evaluations. Over time, as impact and process evaluations are performed on this program, information and input specifically related to this program will be used within future cost-effectiveness analyses. Based on the projected participation, the forecasted peak demand reduction associated with the Power Manager® for Apartments program are summarized in the table below:

	2017	2018	2019
kW	67	399	792
kWh	-	-	-
Participants	94	476	915

kW -Cumulative Summer Coincident kW w/losses. Participants -kW load reduction at the meter.

The EM&V plans for each program are provided in Exhibit TAH1.

(5) Apartment landlords can use the program availability as a differentiation in the market for prospective tenants—showing an attention to energy and environment issues as well as reducing costs for tenants.

- (6) Given the nature of the program, the Power Manager[®] for Apartments program is solely targeted at residential customers. Other demand response offers are included in this application for business customers. The intention is that this program will help improve the opportunity for this segment of the residential customer group to participate in demand response programs.
- (7) The Power Manager[®] for Apartments program will primarily benefit retrofitting existing capital stock—the existing base of apartments in the Duke Energy Ohio service area. There is also the potential for participation for new apartments built in the service area to house participants.
- (8) Duke Energy Ohio sees synergistic opportunities with the Multifamily Energy Efficiency program, as both efforts address the same market—landlords who care about providing savings to their tenants through reduction in their electric bill.
- (9) Adding control of electric water heating for those who accept an air conditioning control device is the example of how this program "bundles" measures to attain peak reductions that would not be cost-effective on its own.
- (10) This program leverages equipment, installation and software vendors already used in the existing Power Manager[®] program—which has over 40,000 current participants. This combination of existing program resources and capabilities makes adding the focus of apartment dwellers and landlords much more cost-effectively than if the program did not have access to those existing resources.
- (11) This program was developed to overcome the major barriers preventing current apartment tenants from participating in the existing Power Manager[®] program. The largest barrier was that current "customers" are tenants and require permission from the

landlord to have equipment installed on the landlord's appliances. In the existing Power Manager® program, there were no monetary benefits to participating in the program for the landlord. Splitting the participation and installation incentives between the landlord and tenant was seen as necessary to overcome this issue. In addition, marketing the program to landlords should be more cost-effective from both a customer-acquisition as well installation cost perspective.

(12) This program was developed based on the several years of experience with the existing Power Manager[®] program. While apartments are smaller in size and have fewer occupants—which results in lower potential for peak demand savings, they also provide opportunities for efficiencies in installation and marketing costs. In addition, the current vendors working with Power Manager have experience with apartment-focused program in other jurisdictions and were able to help Duke Energy Ohio find a program design that both leveraged the existing program capabilities and overcome barriers for this segment.

(13) The Company believes promoting investment in peak demand reduction measures and customer engagement will advance the adoption of demand response measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.

Power Manager® For Business

(1) Cost Effectiveness

Utility Test	TRC Test	RIM Test	Participant
			Test
3.07	4.84	3.02	Not Applicable

- (2) The program pays incentives to participants without any charges to customers—so both participants benefit from the program. Since this Demand Response program passes the RIM test (see "1" above) the program benefits are greater than program costs, and thus lowers overall electric rates for non-participating customers in the non-residential class.
- (3) This program offering broadens the availability of a demand response program to those in a small or medium size commercial establishment. The existing PowerShare[®] program has a minimum size requirement of providing 100 kW of curtailable load. It is estimated that there are almost 60,000 eligible customers for this program. Duke Energy Ohio has used a fairly conservative customer adoption rate of just over 5% cumulative participation of the eligible market through six years for the program.
- (4) Regarding the basis for the load impacts, program managers and analysts produce the impact estimates using industry information from a variety of sources, including but not limited to, Morgan Marketing Partners, CleaResult, and/or other utility program information and evaluations. Over time, as impact and process evaluations are performed on this program, information and input specifically related to this program will be used within future cost-effectiveness analyses. Based on the projected participation, the forecasted peak demand reduction associated with the Power Manager® for Business program are summarized in the table below:

	2017	2018	2019
kW	270	3,183	7,332
kWh	62,631	739,414	1,705,046
Participants	138	1,625	3,745

kW -Cumulative Summer Coincident kW w/losses. Participants -kW load reduction at the meter.

The EM&V plans for each program are provided in Exhibit TAH1.

- (5) Customers may receive a Wi-Fi-enabled thermostat that they may access via a mobile or computer application. This provides the ability to remotely manage temperature conditions in an improved manner for many small business customers.
- (6) Given the nature of the program, the Power Manager® for Business program is solely targeted at non-residential customers. Other demand response offers are included in this application for business customers. The intention is that this program will help improve the opportunity for this segment of the non-residential customer group to participate in demand response programs.
- (7) The Power Manager® for Business program will primarily benefit retrofitting existing capital stock—the existing base of businesses in the Duke Energy Ohio service area. There is also the potential for participation for new business built in the service area to participate.
- (8) Duke Energy Ohio sees synergistic opportunities with the Small Business Energy Efficiency program, as both efforts address the same market—smaller business customers who care about achieving savings through reduction in their electric bill.
- (9) Currently the program only involves control of central cooling equipment, but in the future it may provide the basis to cost effectively control water heating, lighting or other applications. At this time, those measures are not pursued due to uncertainty in their cost-effectiveness. Duke Energy Ohio will continue to monitor the situation as conditions change over time.
- (10) This program leverages equipment, installation and software vendors already used in Duke Energy's operating companies in the Carolinas as well as Duke Energy Ohio. This

enables some of the IT related investment to be spread across multiple jurisdictions and improve the cost-effectiveness of this program.

- (11) This program provides savings to customers for no investment on their part. The intention is to leverage activity from the Small Business Energy Saver program that will provide efficiencies in marketing and build upon the trust developed from the EE program implementation.
- (12) This program was developed based on the several years of experience with the existing Power Manager[®] and PowerShare[®] programs in Duke Energy Ohio. In addition, a program called "EnergyWise for Business" was introduced into Duke Energy's service areas in the Carolinas during 2016. This program is substantially the same as the proposed Power Manager for Business program.
- (13) The Company believes promoting investment in peak demand reduction measures and customer engagement will advance the adoption of energy efficient demand response measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market transformation.

Other Programs:

Prior Program Name	New Program Name	Program Description
		Captures energy efficiency and peak demand
		reduction projects committed to the
		Company by Mercantile customers as
Mercantile Self-Direct	Mercantile Self-Direct	provided for by O.R.C. 4928.01 and 4928.66
		Capture savings achieved through various
NA	T&D Improvements	T&D projects that reduce line losses.
		Smart grid investment programs, provided
		that such programs are demonstrated to be
NA	Smart Grid	cost-beneficial

The Duke Energy Ohio Self-Direct program was proposed in accordance with PUCO Rule 4901:1-39-05(G). O.A.C., and the Commission's Order in Case No.10-834-EL-POR. Mercantile and national/regional accounts customers with aggregate annual usage of 700,000 kWh or greater are eligible for the program. The Program became a permanent Ohio program on July 17, 2013. Duke Energy Ohio will continue to support the program and claim impacts towards meeting it energy efficiency benchmarks.

In accordance with Sec. 4928.662, the Commission shall count energy efficiency savings and peak demand reductions associated with transmission and distribution infrastructure improvements that reduce line losses. No energy efficiency or peak demand reduction achieved under division (E) of this section shall qualify for shared savings. Duke Energy Ohio will include impacts achieved towards meeting its energy efficiency benchmarks. Smart grid means capital improvements to an electric distribution utility's distribution infrastructure that improve reliability, efficiency, resiliency, or reduce energy demand or use, including, but not limited to, advanced metering and automation of system functions.

A utility is permitted to use Smart Grid investment programs, provided that such programs are demonstrated to be cost-beneficial towards compliance. Duke Energy Ohio will include impacts achieved from Smart Grid programs towards meeting its energy efficiency benchmarks.

Baselines: Sec. 4928.66.(a) states the baseline is the average of the total kilowatt hours the electric distribution utility sold in the preceding three calendar years. The baseline for a peak demand reduction under division (A)(1)(b) of this section shall be the average peak demand on the utility in the preceding three calendar years, except that the commission may reduce either

baseline to adjust for new economic growth in the utility's certified territory. Neither baseline shall include the load and usage of any of the following customers:

- (i) Beginning January 1, 2017, a customer for which a reasonable arrangement has been approved under section 4905.31 of the Revised Code;
- (ii) A customer that has opted out of the utility's portfolio plan under section 4928.6611 of the Revised Code;
- (iii) A customer that has opted out of the utility's portfolio plan under Section 8 of S.B.310 of the 130th general assembly.

The baseline also shall be normalized for changes in numbers of customers, sales, weather, peak demand, and other appropriate factors so that the compliance measurement is not unduly influenced by factors outside the control of the electric distribution utility.

S.B. 310 Percentage EE/PDR Benchmarks:

Table 2 provides the cumulative percentage EE/PDR Benchmarks

Table 2:14

Year	Energy Consumption MWh	Peak Demand MW
2017	6.20%	7.00%
2018	7.20%	7.75%
2019	9.20%	9.25%

-

¹⁴ As defined in Sec. 4928.66

Table 3 provides the Duke Energy Ohio S.B. 310 EE and PDR Reduction Requirements

Table 3:15

Year	Energy Efficiency Benchmarks Percentage	Cumulative Required Energy Efficiency Savings MWh	Peak Demand Reduction Benchmarks Percentage	Cumulative Required Peak Demand Reductions MW
2017	6.20%	1,489,662	7.00%	303.7
2018	7.20%	1,692,875	7.75%	334.6
2019	9.20%	2,100,064	9.25%	396.2

COST RECOVERY: Duke Energy Ohio proposes to recover the costs and lost revenues incurred to deliver energy efficiency and peak demand reduction and the ability to earn an incentive, based upon its ability to exceed its efficiency savings targets that are required of all electric distribution customers by Ohio law. In the case that Duke Energy Ohio reaches the required level of energy savings, it shall be eligible to retain a percentage of the after-tax net system benefits (avoided costs less the costs of delivering the efficiency) as an incentive. The Company's after-tax shared savings incentive shall entitle it to 10% of the after-tax net benefit, which means that 90% of the benefit achieved will be retained by Duke Energy Ohio's customers.

The incentive that the Company is eligible to earn will be calculated on a shared savings pool which is based upon the net system benefits that are delivered by Duke Energy Ohio's approved portfolio of programs in a given year, excluding any impacts from the Self-Direct Mercantile Program, as well as the benefits realized through smart grid and transmission and distribution investments.

51

 $^{^{15}}$ Table 3 is based on the 2016 Long-Term Forecast Report in Case No. 16-588-EL-FOR

The proposed 10% after-tax shared savings mechanism proposed by the Company is consistent with other incentive mechanisms that have been approved by the Commission.

Waiver Request:

Rule 4901:1-39-05(C), Ohio Administrative Code, requires electric utilities to submit their compliance filings by March 15th. Duke Energy Ohio respectfully requests that its annual compliance filing, as well as, its annual energy efficiency rider true-up be submitted by May 15th annually through program year 2019. Extending the date will allow additional time for data collection, the receipt or EM&V results and analysis, as well as align the rider with the compliance filing.

Conclusion:

THEREFORE, consistent with the information provided above as supported by the Company witnesses in testimony included with this Application, Duke Energy Ohio respectfully requests that the Commission approve the cost recovery mechanism proposed, along with the new energy efficiency and peak demand reduction programs for inclusion within its existing portfolio.

Respectfully submitted,

Duke Energy Ohio, Inc.

Amy B. Spiller (0047277)

Deputy General Counsel

Elizabeth H. Watts (0031092)

Associate General Counsel

139 E. Fourth Street, 1303-Main

Cincinnati, Ohio 45201-0960

Telephone: (513) 287-4359 Facsimile: (513)-287-4385

Amy.Spiller@duke-energy.com

Elizabeth.Watts@duke-energy.com

		Target Annual								
Measure Name	Target Annual kWh Savings	NonCoincident kW (Summer Coincident kW	Winter Coincident kW Meas	The state of the s		e Unit of Measure	Customer Type	Source Type	Source Author
Energy Education Program for Schools	499.00	9999.00	.oincident kW 0.13	0.13	7 Energy Education Program for Schools	K12PRF	per participant	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - ACR Insulation SC Only EH per home	203.77	9999.00	9999.00	9999.00	25 Weatherization - Pay Per KWH	WTZKWH	per home	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - ACR Insulation SC Only_NonEH per home	203.77	9999.00	9999.00	9999.00	25 Weatherization - Pay Per KWH	WTZKWH	per home	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - ACR Insulation SH Only_EH per home	1018.87	9999.00	9999.00	9999.00	25 Weatherization - Pay Per KWH	WTZKWH	per home	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Air Sealing SC Only_EH per home WTZKWH - Air Sealing SC Only_NonEH per home	61.61 61.61	9999.00 9999.00	9999.00 9999.00	9999.00 9999.00	15 Weatherization - Pay Per KWH 15 Weatherization - Pay Per KWH	WTZKWH WTZKWH	per home per home	Residential Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Cadmus Cadmus
WTZKWH - Air Sealing St. Only_NoneH per nome WTZKWH - Air Sealing SH Only_EH per home	842.04	9999.00	9999.00	9999.00	15 Weatherization - Pay Per KWH 15 Weatherization - Pay Per KWH	WTZKWH	per nome per home	Residential	Duke Energy Onio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - CFL_EH	35.25	0.00	0.01	0.00	5 Weatherization - Pay Per KWH	WTZKWH	Per CFL	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - CFL_NonEH	51.36	0.01	0.01	0.01	5 Weatherization - Pay Per KWH	WTZKWH	Per CFL	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Energy Efficient Shower Head_EH	161.73	9999.00	9999.00	9999.00	5 Weatherization - Pay Per KWH	WTZKWH	Per Showerhead	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Energy Efficient Shower Head_NonEH	161.73	9999.00	9999.00	9999.00	5 Weatherization - Pay Per KWH	WTZKWH	Per Showerhead	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Faucet Aerator_EH WTZKWH - Faucet Aerator NonEH	18.74 18.74	9999.00 9999.00	9999.00 9999.00	9999.00 9999.00	5 Weatherization - Pay Per KWH 5 Weatherization - Pay Per KWH	WTZKWH WTZKWH	Per Aerator Per Aerator	Residential Residential	Duke Energy Ohio EM&V Evaluation	Cadmus Cadmus
WTZKWH - Floor Insulation SH Only_EH per home	503.45	9999.00	9999.00	9999.00	25 Weatherization - Pay Per KWH	WTZKWH	per home	Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Foundation Insulation SH Only_EH per home	1731.66	9999.00	9999.00	9999.00	25 Weatherization - Pay Per KWH	WTZKWH	per home	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Refrigerator Replacement_EH	838.62	0.10	0.10	0.10	8 Weatherization - Pay Per KWH	WTZKWH	Per Refrigerator	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Refrigerator Replacement_NonEH	1276.65	0.15	0.15	0.15	8 Weatherization - Pay Per KWH	WTZKWH	Per Refrigerator	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Wall Insulation SC Only_EH per home WTZKWH - Wall Insulation SC Only NonEH per home	223.75 223.75	9999.00 9999.00	9999.00 9999.00	9999.00 9999.00	25 Weatherization - Pay Per KWH 25 Weatherization - Pay Per KWH	WTZKWH WTZKWH	per home per home	Residential Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Cadmus Cadmus
WTZKWH - Wall Insulation St Only_Notice per Notice WTZKWH - Wall Insulation SH Only_Notice per Notice	1200.13	9999.00	9999.00	9999.00	25 Weatherization - Pay Per KWH	WTZKWH	per home	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Water Heater Pipe Insulation_EH	235.67	9999.00	9999.00	9999.00	10 Weatherization - Pay Per KWH	WTZKWH	Per Water Heater	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Water Heater Pipe Insulation_NonEH	235.67	9999.00	9999.00	9999.00	10 Weatherization - Pay Per KWH	WTZKWH	Per Water Heater	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Water Heater Replacement Electric_EH	124.48	9999.00	9999.00	9999.00	13 Weatherization - Pay Per KWH	WTZKWH	Per Water Heater	Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
WTZKWH - Water Heater Replacement Electric_NonEH WTZKWH - Water Heater Tank Wrap_EH	124.48 193.74	9999.00	9999.00	9999.00	13 Weatherization - Pay Per KWH 5 Weatherization - Pay Per KWH	WTZKWH WTZKWH	Per Water Heater Per Water Heater	Residential Residential	Duke Energy Ohio EM&V Evaluation	Cadmus Cadmus
WTZKWH - Water Heater Tank Wrap_EH WTZKWH - Water Heater Tank Wrap_NonEH	193.74	9999.00	9999.00	9999.00	5 Weatherization - Pay Per KWH 5 Weatherization - Pay Per KWH	WTZKWH WTZKWH	Per Water Heater	Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Cadmus
My Home Energy Report - Online	286.10	9999.00	9999.00	9999.00	1 My Home Energy Report	HECR	per participant	Residential	Original Estimates (Based on EM&V evaluation report)	Duke Energy
Home Energy House Call - Additional LED	27.00	9999.00	9999.00	9999.00	12 Residential Energy Assessments	HEHC	per bulb	Residential	Original Estimates (Based on EM&V evaluation report)	Duke Energy
Home Energy House Call - Kit (LEDs)	460.83	9999.00	0.06	9999.00	14 Residential Energy Assessments	HEHC	per house	Residential	Original Estimates (Based on EM&V evaluation report)	Duke Energy
LED - Retail Fixture	36.72	9999.00	9999.00	9999.00	12 Smart \$aver® Residential	RTLLED	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
LED - Retail Reflector Outdoor LED - Retail Reflector Track Lighting	118.30 22.78	9999.00 9999.00	9999.00 9999.00	9999.00 9999.00	15 Smart \$aver® Residential 12 Smart \$aver® Residential	RTLLED RTLLED	per bulb per bulb	Residential Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study) Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy Duke Energy
LED - Retail Specialty 3 Way	43.96	9999.00	9999.00	9999.00	12 Smart Saver® Residential	RTLLED	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
LED - Retail Specialty Decorative Candelabra	18.06	9999.00	9999.00	9999.00	15 Smart Saver® Residential	RTLLED	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
LED - Retail Specialty Globe	17.61	9999.00	9999.00	9999.00	12 Smart \$aver® Residential	RTLLED	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
Multifamily MyHER	111.00	9999.00	9999.00	9999.00	1 My Home Energy Report	HECR	per participant	Residential	Original Estimates (Based on EM&V evaluation report)	Duke Energy
Multifamily MyHER Interactive	124.00	9999.00	9999.00	9999.00	1 My Home Energy Report	HECR PMAPT	per participant per Summer Peak kW	Residential Residential	Original Estimates (Based on EM&V evaluation report) Original Estimates (Based on EM&V evaluation report)	Duke Energy
Power Manager for Apartments Power Manager for Water Heaters			0.33	1.00	15 Power Manager® for Apartments 15 Power Manager®	PMAPI	per Summer Peak kW	Residential Residential	Original Estimates (Based on EM&V evaluation report) Original Estimates (Based on PJM estimates)	Duke Energy Duke Energy
Power Manager Water Heaters for Apartments			0.33	1.00	15 Power Manager® for Apartments	PMAPWH	per Winter Peak kW	Residential	Original Estimates (Based on PIM estimates)	Duke Energy
PowerManager			1.00		15 Power Manager®	PWRMGR	per KW net of line losses	Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
RCFLSP - Specialty Bulbs 3 Way LED	43.96				12 Smart Şaver® Residential	RCFLSP	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
RCFLSP - Specialty Bulbs Candelabra LED	18.06	0.02	0.00	0.00	15 Smart \$aver® Residential	RCFLSP	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
RCFLSP - Specialty Bulbs Globe LED RCFLSP - Specialty Bulbs Recessed Outdoor LED	17.61 118.30	0.07	0.00	0.00	12 Smart \$aver® Residential 15 Smart \$aver® Residential	RCFLSP RCFLSP	per bulb per bulb	Residential Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study) Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
RLED - Free LED Phase 1	28.69	0.04	0.00	0.00	12 Smart Saver® Residential	RLED	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study) Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy Duke Energy
RLED - Free LED Phase 2	7.83	0.01	0.00	0.00	12 Smart Saver® Residential	RLED	per bulb	Residential	Original Estimates (Based on Ohio TRM and KEMA-XENERGY CFL Metering Study)	Duke Energy
Faucet Aerators SF DIY 1.0 GPM - bath	96.00	0.01	0.01	9999.00	10 Smart Şaver® Residential	SFEEAR	per aerator	Residential	Engineering Estimates	Morgan Marketing Partners
Faucet Aerators SF DIY 1.0 GPM - kitchen	79.00	0.01	0.01	9999.00	10 Smart Şaver® Residential	SFEEAR	per aerator	Residential	Engineering Estimates	Morgan Marketing Partners
LF Showerhead SF DIY 1.5 GPM	171.00	0.02	0.01	9999.00	10 Smart \$aver® Residential	SFEESH	per showerhead	Residential	Engineering Estimates	Morgan Marketing Partners
Pipe Wrap SF DIY Smart Saver - Attic Insul & Air Sealing - Non-Referred	46.00 1162.00	0.01 9999.00	0.00 9999.00	9999.00 9999.00	13 Smart Şaver® Residential 20 Smart Saver® Residential	SFEEPW SSAISN	per linear foot per HVAC	Residential Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners Morgan Marketing Partners
Smart Saver - Attic Insul & Air Sealing - Referred	1162.00	9999.00	9999.00	9999.00	20 Smart Şaver® Residential	SSAISR	per HVAC	Residential	Engineering Estimates	Morgan Marketing Partners
Smart Saver - Duct Insulation - Non-Referred	876.00	9999.00	9999.00	9999.00	20 Smart Şaver® Residential	SSDINN	per HVAC	Residential	Engineering Estimates	Morgan Marketing Partners
Smart Saver - Duct Insulation - Referred	876.00	9999.00	9999.00	9999.00	20 Smart \$aver® Residential	SSDINR	per HVAC	Residential	Engineering Estimates	Morgan Marketing Partners
Smart Saver - Duct Sealing - Non-Referred Smart Saver - Duct Sealing - Referred	410.00 410.00	9999.00 9999.00	9999.00 9999.00	9999.00 9999.00	18 Smart \$aver® Residential 18 Smart \$aver® Residential	SSDSEN SSDSER	per HVAC per HVAC	Residential Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners Morgan Marketing Partners
Heat Pump Water Heater	1763.00	0.20	0.14	9999.00	10 Smart Saver® Residential	HPWH	per Heat Pump Water Heater	Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Faucet Aerators MF Direct 1.0 GPM - bath	58.75	0.16	0.01	0.01	10 Smart Şaver® Residential	MFEEAR	per aerator	Residential	Duke Energy Ohio EM&V Evaluation	Navigant
Faucet Aerators MF Direct 1.0 GPM - kitchen	116.81	0.32	0.02	0.02	10 Smart \$aver® Residential	MFEEAR	per aerator	Residential	Duke Energy Ohio EM&V Evaluation	Navigant
Faucet Aerators MF DIY 1.0 GPM - bath	44.68	0.12	0.01	0.01	10 Smart Şaver® Residential	MFEEAR	per aerator	Residential	Duke Energy Ohio EM&V Evaluation	Navigant
Faucet Aerators MF DIY 1.0 GPM - kitchen LF Showerhead MF Direct 1.5 GPM	90.34 339.05	0.25 0.93	0.01	0.02 0.04	10 Smart \$aver® Residential 10 Smart \$aver® Residential	MFEEAR	per aerator per showerhead	Residential Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Navigant Navigant
LF Showerhead MF DIY 1.5 GPM	259.75	0.93	0.03	0.04	10 Smart Saver® Residential	MFEESH	per showerhead	Residential	Duke Energy Onio EM&V Evaluation	Navigant
Pipe Wrap MF Direct	51.48	9999.00	0.01	0.01	13 Smart Saver® Residential	MFEEPW	per linear foot	Residential	Duke Energy Ohio EM&V Evaluation	Navigant
Pipe Wrap MF DIY	46.50	9999.00	0.01	0.01	13 Smart Şaver® Residential	MFEEPW	per linear foot	Residential	Duke Energy Ohio EM&V Evaluation	Navigant
Property Manager 13WCFL	44.94	0.05	0.01	0.01	5 Smart \$aver® Residential	RCFLPM	per 13W cfl bulb	Residential	Duke Energy Ohio EM&V Evaluation	Navigant
My Home Energy Report Quality Installation - Non-Referred	255.79 214.95	9999.00	9999.00	9999.00	1 My Home Energy Report 10 Smart Saver® Residential	HECR SSOINR	per participant per Installation	Residential Residential	Duke Energy Ohio EM&V Evaluation Engineering Estimates	Navigant
Quality Installation - Non-Referred Quality Installation - Referred	214.95	9999.00	0.06	0.02	10 Smart Saver® Residential	SSOIR	per Installation	Residential	Engineering Estimates Engineering Estimates	Navigant Navigant
Smart Saver - Central Air Conditioner Tier 1 - Non-Referred	412.62	9999.00	0.21	0.04	13 Smart Saver® Residential	SSAC1N	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Central Air Conditioner Tier 1 - Referred	412.62	9999.00	0.21	0.04	13 Smart Şaver® Residential	SSAC1R	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Central Air Conditioner Tier 2 - Non-Referred	344.66	9999.00	0.20	0.03	15 Smart \$aver® Residential	SSAC2N	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Central Air Conditioner Tier 2 - Referred	344.66	9999.00	0.20	0.03	15 Smart \$aver® Residential	SSAC2R	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Central Air Conditioner Tier 3 - Non-Referred Smart Saver - Central Air Conditioner Tier 3 - Referred	450.06 450.06	9999.00 9999.00	0.26 0.26	0.04 0.04	15 Smart \$aver® Residential 15 Smart \$aver® Residential	SSAC3N SSAC3R	per HVAC per HVAC	Residential Residential	Engineering Estimates Engineering Estimates	Navigant Navigant
Smart Saver - Heat Pump Tier 1 - Non-Referred	776.48	9999.00	0.12	0.15	12 Smart Saver® Residential	SSHP1N	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Heat Pump Tier 1 - Referred	776.48	9999.00	0.12	0.15	12 Smart \$aver® Residential	SSHP1R	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Heat Pump Tier 2 - Non-Referred	512.06	9999.00	0.08	0.13	15 Smart \$aver® Residential	SSHP2N	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Heat Pump Tier 2 - Referred	512.06	9999.00	0.08	0.13	15 Smart \$aver® Residential	SSHP2R	per HVAC	Residential	Engineering Estimates	Navigant
Smart Saver - Heat Pump Tier 3 - Non-Referred Smart Saver - Heat Pump Tier 3 - Referred	436.78 436.78	9999.00	0.12	0.11 0.11	15 Smart Saver® Residential 15 Smart Saver® Residential	SSHP3N SSHP3R	per HVAC	Residential Residential	Engineering Estimates Engineering Estimates	Navigant
Smart Saver - Heat Pump Tier 3 - Referred Smart Thermostat - Non-Referred	436.78 493.23	9999.00	0.12	0.11	15 Smart Saver® Residential 11 Smart Saver® Residential	SSHP3R	per HVAC per Thermostat	Residential Residential	Engineering Estimates Engineering Estimates	Navigant Navigant
Smart Thermostat - Referred	493.23	9999.00	0.00	0.00	11 Smart Saver® Residential	SSSTR	per Thermostat	Residential	Engineering Estimates	Navigant
Low Income Neighborhood	418.00	0.14	0.13	9999.00	8 Low Income Neighborhood	HWLI	per participant	Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
LED - Retail General Purpose A Line	24.50	9999.00	9999.00	9999.00	12 Smart \$aver® Residential	RTLLED	per bulb	Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
LED - Retail Reflector Recessed	43.40	9999.00	9999.00	9999.00	12 Smart \$aver® Residential	RTLLED	per bulb	Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
RCFLSP - Specialty Bulbs A Line LED RCFLSP - Specialty Bulbs Recessed LED	24.50 43.40	0.03 0.04	0.00	0.00	12 Smart \$aver® Residential 12 Smart \$aver® Residential	RCFLSP RCFLSP	per bulb per bulb	Residential Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	TecMarket Works TecMarket Works
Pool Pump	43.40 1580.00	0.04	0.00	0.00	10 Smart Şaver® Residential	PEEPVS	per buib per pool	Residential	Engineering Estimates	VEIC
ECM Case Motors	333.54	0.04	0.04	9999.00	15 Food Service Products	NRFS	per motor	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
Exterior HID replacement above 175W to 250W HID retrofit	791.00	0.19	0.00	0.00	12 Lighting	NRLTG	per fixture	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus

Exterior HID replacement above 250W to 400W HID retrofit	1425.00	0.34	0.00	0.00	12 Lighting	NRLTG	per fixture	Non-Residential		Cadmus
Exterior HID replacement above 250W to 400W HID retrofit Exterior HID replacement above 400W HID retrofit	1425.00 2193.00	0.34	0.00	0.00	12 Lighting 12 Lighting	NRLIG NRLTG	per fixture per fixture	Non-Residential Non-Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Cadmus
Exterior HID replacement to 175W HID retrofit	588.00	0.48	0.00	0.00	12 Lighting	NRLTG	per fixture	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
Garage HID replacement above 175W to 250W HID retrofit	1578.00	0.14	0.19	0.19	6 Lighting	NRLTG	per fixture	Non-Residential	Duke Energy Onio EM&V Evaluation	Cadmus
Garage HID replacement above 250W to 400W HID retrofit	2755.00	0.36	0.36	0.36	6 Lighting	NRLTG	per fixture	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
Garage HID replacement above 400W HID retrofit	6065.00	0.69	0.69	0.69	6 Lighting	NRLTG	per fixture	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
Garage HID replacement to 175W HID retrofit	916.00	0.11	0.11	0.11	6 Lighting	NRLTG	per fixture	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
Guest Room Energy Management, Electric Heating	669.48	0.19	0.14	0.14	8 HVAC	NRHVAC	per unit	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
High Efficiency Pumps 1.5HP	221.67	0.08	0.00	0.00	15 Pumps and Drives	NRP&M	per pump	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
High Efficiency Pumps 15HP	3283.93	0.82	0.64	0.00	15 Pumps and Drives	NRP&M	per pump	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
High Efficiency Pumps 20HP	4378.57	1.09	0.85	0.00	15 Pumps and Drives	NRP&M	per pump	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
High Efficiency Pumps 5HP	957.81	0.27	0.21	0.00	15 Pumps and Drives	NRP&M	per pump	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
High Efficiency Pumps 7.5HP	960.55	0.41	0.00	0.00	15 Pumps and Drives	NRP&M	per pump	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
LED Downlight	264.00	0.08	0.06	0.00	15 Lighting	NRLTG	per lamp	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
LED Lamps	288.00	0.07	0.05	0.05	8 Lighting	NRLTG	per lamp	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
VSD Air Compressors	561.14	0.11	0.10	0.10	15 Process Equipment	NRPROC	per HP	Non-Residential	Duke Energy Ohio EM&V Evaluation	Cadmus
Air Cooled Chiller_Any greater than 150 tons	70.31	9999.00	0.09	0.00	20 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	CleaResults
Air Cooled Chiller_Any less than 150 tons	71.72	9999.00	0.09	0.00	20 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	CleaResults
Combination Oven_10 pan	6501.92	1.48	1.20	1.04	12 Food Service Products	NRFS	per oven	Non-Residential	Engineering Estimates	CleaResults
Combination Oven_20 pan	12391.13 100.00	2.83 0.01	2.29	1.98	12 Food Service Products 4 Information Technology	NRFS NRIT	per oven	Non-Residential Non-Residential	Engineering Estimates	CleaResults CleaResults
Controlled Plug Strip						NRII	per power strip		Engineering Estimates	
Convection Oven Full-Sized	2083.14	0.48	0.39	0.33	12 Food Service Products		per oven	Non-Residential	Engineering Estimates	CleaResults
ECM for HVAC fan_ 1 HP ECM for HVAC fan 3 grtr HP	2895.00 2171.25	0.66 0.50	0.66 0.50	0.67 0.51	15 HVAC 15 HVAC	NRHVAC NRHVAC	per motor per motor	Non-Residential Non-Residential	Engineering Estimates Engineering Estimates	CleaResults CleaResults
ECM for HVAC fan _ 3 qrtr HP ECM for HVAC fan half HP	21/1.25 1447.50	0.50	0.50	0.51	15 HVAC 15 HVAC	NRHVAC	per motor per motor	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
ECM for HVAC fannan HP	723.75	0.33	0.33	0.34	15 HVAC	NRHVAC	per motor	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
	723.75 955.35	0.17	0.17	0.17	15 HVAC 15 HVAC	NRHVAC	per motor per motor	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
ECM for HVAC fan_ third HP	955.35 2659.00	0.22	0.22	0.22	12 Food Service Products	NRHVAC	per frver	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
Fryer (Large Vat) Fryer (Standard Vat)	1057.00	0.61	0.49	0.42	12 Food Service Products 12 Food Service Products	NRFS NRFS	per fryer per fryer	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
HT ES Multi-Tank - CNV DW New -rplc on Burnout	30412.00	4.63	3.75	3.24	20 Food Service Products	NRFS NRFS	per tryer per dishwasher	Non-Residential		CleaResults
HT ES Multi-Tank - CNV DW New -rpic on Burnout HT ES Multi-Tank - CNV DW w-Boost Htr (Elec) New -repl on BO	30412.00	4.63		3.24	20 Food Service Products 20 Food Service Products	NRFS	per dishwasher per dishwasher	Non-Residential	Engineering Estimates	CleaResults
			3.75		20 Food Service Products 20 Food Service Products	NRFS NRFS			Engineering Estimates	
HT ES Multi-Tank - CNV DW w-Boost Htr (Gas) New -repl on BO HT ES PotPanUtl DW (Elec) New -replc on Burnout	21168.00 3702.00	3.22 0.56	2.61 0.46	2.26 0.39	20 Food Service Products 10 Food Service Products	NRFS NRFS	per dishwasher per dishwasher	Non-Residential Non-Residential	Engineering Estimates Engineering Estimates	CleaResults CleaResults
HT ES POTPANUTI DW (EIEC) NEW -repic on Burnout HT ES PotPanUti DW (Gas) New -repic on Burnout	2498.00	0.38	0.46	0.39	10 Food Service Products 10 Food Service Products	NRFS	per dishwasher per dishwasher	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
HT ES POTPANUTI DW (Gas) New -repic on Burnout HT ES PotPanUtl DW New -repic on Burnout	2498.00 3702.00	0.38	0.31	0.27	10 Food Service Products 10 Food Service Products	NRFS NRFS	per dishwasher per dishwasher	Non-Residential		CleaResults
	10003.00	1.52	1.23	1.07	20 Food Service Products	NRFS NRFS	per dishwasher per dishwasher	Non-Residential	Engineering Estimates	CleaResults
HT ES Sngl Tank - CNV DW New -rplc on Burnout				1.07		NRFS NRFS			Engineering Estimates	
HT ES Sngl Tank - CNV DW w-Boost Htr (Elec) New -repl on BO	10003.00	1.52	1.23	0.81	20 Food Service Products	NRFS NRFS	per dishwasher	Non-Residential	Engineering Estimates	CleaResults
HT ES Sngl Tank - CNV DW w-Boost Htr (Gas) New -repl on BO	7567.00		0.93		20 Food Service Products		per dishwasher	Non-Residential	Engineering Estimates	CleaResults
HT ES Sngl Tank - Door DW New -repl on Burnout	13167.00	2.00	1.62	1.40	15 Food Service Products	NRFS	per dishwasher	Non-Residential	Engineering Estimates	CleaResults
HT ES Sngl Tank - Door DW w-Boost Htr (Elec) New -repl on BO	13167.00	2.00	1.62	1.40	15 Food Service Products	NRFS NRFS	per dishwasher	Non-Residential	Engineering Estimates	CleaResults
HT ES Sngl Tank - Door DW w-Boost Htr (Gas) New -repl on BO	9154.00	1.39	1.13	0.98	15 Food Service Products 10 Food Service Products	NRFS NRFS	per dishwasher	Non-Residential	Engineering Estimates	CleaResults CleaResults
HT ES UC DW New -replc on Burnout	3371.55	0.51	0.42			NRFS NRFS	per dishwasher	Non-Residential	Engineering Estimates	
HT ES UC DW w-Boost Htr (Elec) New -repl on BO	3372.00	0.51	0.42	0.36	10 Food Service Products		per dishwasher	Non-Residential	Engineering Estimates	CleaResults
HT ES UC DW w-Boost Htr (Gas) New -repl on BO Icemaker (100 to 500 lbs day)	2753.00 564.45	0.42 0.06	0.34 0.06	0.29 0.06	10 Food Service Products 10 Food Service Products	NRFS NRFS	per dishwasher per ice maker	Non-Residential Non-Residential	Engineering Estimates	CleaResults CleaResults
	564.45 1129.33	0.06	0.06	0.06		NRFS NRFS			Engineering Estimates	CleaResults
Icemaker (501 to 1000 lbs_day)	3541.25		0.13	0.13	10 Food Service Products	NRFS NRFS	per ice maker per ice maker	Non-Residential Non-Residential	Engineering Estimates	CleaResults
Icemaker (Greater Than 1000 lbs_day)		0.40 0.01	0.40	0.40	10 Food Service Products	NRFS NRLTG	per ice maker per fixture		Engineering Estimates	CleaResults
LED 2ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 2ft Tube 2-LED, replacing or in lieu of T8 fluorescent	32.22 52.36	0.01	0.01	0.00	15 Lighting 15 Lighting	NRLTG	per fixture	Non-Residential Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
LED 2ft Tube 2-LED, replacing or in lieu of 18 fluorescent LED 2ft Tube 3-LED, replacing or in lieu of T8 fluorescent	52.36 68.47	0.01	0.01	0.00		NRLTG	per fixture	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
			0.01	0.00	15 Lighting 15 Lighting	NRLIG		Non-Residential		CleaResults
							per fixture	Non-Residential	Engineering Estimates	
LED 2ft Tube 4-LED, replacing or in lieu of T8 fluorescent	76.53	0.02						Many Description (Col.)		
LED 4ft Case Lights, T8 to LED	86.51	0.02	0.02	0.00	15 Lighting	NRLTG	per fixture	Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls	86.51 115.65	0.02 0.02	0.02 0.02	0.00 0.00	15 Lighting 15 Lighting	NRLTG NRLTG	per fixture w_control	Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent	86.51 115.65 48.33	0.02 0.02 0.01	0.02 0.02 0.01	0.00 0.00 0.00	15 Lighting 15 Lighting 15 Lighting	NRLTG NRLTG NRLTG	per fixture w_control per fixture	Non-Residential Non-Residential	Engineering Estimates Engineering Estimates	CleaResults CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent	86.51 115.65 48.33 80.55	0.02 0.02 0.01 0.02	0.02 0.02 0.01 0.02	0.00 0.00 0.00 0.00	15 Lighting 15 Lighting 15 Lighting 15 Lighting 15 Lighting	NRLTG NRLTG NRLTG NRLTG	per fixture w_control per fixture per fixture	Non-Residential Non-Residential Non-Residential	Engineering Estimates Engineering Estimates Engineering Estimates	CleaResults CleaResults CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls LEO 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent	86.51 115.65 48.33 80.55 112.78	0.02 0.02 0.01 0.02 0.03	0.02 0.02 0.01 0.02 0.02	0.00 0.00 0.00 0.00 0.00	15 Lighting 15 Lighting 15 Lighting 15 Lighting 15 Lighting	NRLTG NRLTG NRLTG NRLTG NRLTG	per fixture w_control per fixture per fixture per fixture per fixture	Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates Engineering Estimates Engineering Estimates Engineering Estimates	CleaResults CleaResults CleaResults CleaResults
LED 4ft Case Lights, T8 to LED LEO 4ft Case Lights, T8 to LED - With Controls LEO 4ft Tube - LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent	86.51 115.65 48.33 80.55 112.78 145.00	0.02 0.02 0.01 0.02 0.03 0.04	0.02 0.02 0.01 0.02 0.02 0.03	0.00 0.00 0.00 0.00 0.00 0.00	15 Lighting 15 Lighting 15 Lighting 15 Lighting 15 Lighting 15 Lighting	NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG	per fixture w_control per fixture per fixture per fixture per fixture	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates Engineering Estimates Engineering Estimates Engineering Estimates Engineering Estimates	CleaResults CleaResults CleaResults CleaResults CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED	86.51 115.65 48.33 80.55 112.78 145.00 109.27	0.02 0.02 0.01 0.02 0.03 0.04 0.02	0.02 0.02 0.01 0.02 0.02 0.03 0.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00	15 Lighting	NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG	per fixture w_control per fixture per fixture per fixture per fixture per fixture per fixture	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls LEO 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05	0.02 0.02 0.01 0.02 0.03 0.04 0.02	0.02 0.02 0.01 0.02 0.02 0.03 0.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG	per fixture w_control per fixture	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED - With Controls LED 5ft Case Lights, T8 to LED - With Controls LED Canopy replacing T6-E-SOW HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.02 0.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls LEO 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LEO 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LEO 5ft Case Lights, T8 to LED - With Controls LED Canopy replacing 15-16 VIOW HID LED Canopy replacing 25-16 VIOW HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fature w_control per fature w_control per fature per fature	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, 18 to LED LED 4ft Case Lights, 18 to LED - With Controls LED 4ft Tube 1-LED, replacing or in lieu of 18 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of 18 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of 18 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of 18 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of 18 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of 18 fluorescent LED 5ft Case Lights, 18 to LED - With Controls LED 5ft Case Lights, 18 to LED - With Controls LED Canopy replacing 176-250W HID LED Canopy replacing 251-400W HID LED Canopy replacing up to 127W HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED - With Controls LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing to in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 175-250W HID LED Canopy replacing 251-400W HID LED Canopy replacing 251-400W HID LED Canopy replacing 251-400W HID LED Canopy see floring or ILO NICO or FL display case Ltng	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.02 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fature w_control per fature	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 251-400W HID LED Canopy replacing up to 1579W HID LED Display Case (pilorg or ILD 0HCD or FL display case Ltng) LED FLD Pringer or ILD GRT 100W HAL, INCD, or HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.02 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fature w_control per fature	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing to T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5th Case Lights, T8 to LED LED Canopy replacing 175-250W HID LED Canopy replacing 251-400W HID LED Canopy replacing 251 - 400W HID LED LED FLO FLORE (princ) or ILD MCD or FL display case Ltng) LED FLD pricing or ILD G8ft 100W HAL, INCLO, or HID LED FLD FLORE or ILD US ID ID HAL LED FLD FLORE OR ILD US ID LED FLD FLORE OR ILD US ID LED FLD FLORE OR ILD US ID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fature w_control per fature	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing 10 in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED - With C controls LED 6anopy replacing 176-250W HID LED Canopy replacing 251-400W HID LED Canopy replacing up to 157W HID LED fluorescent Collection of LIGHT CONTROL OF HID LED Fluorescent Collection of LIGHT CONTROL OF HID LED Fluorescent Collection of LIGHT CONTROL OF HID LED Fluorescent Collection of LIGHT CONTROL HID LED Fluorescent Collection of LIGHT CONTROL HID LED Fluorescent Collection of LIGHT CONTROL HID LED Highbay replacing 251-040W HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.02 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fature w_control per fature	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing to T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5th Case Lights, T8 to LED LED Canopy replacing 175-250W HID LED Canopy replacing 251-400W HID LED Canopy replacing 251 - 400W HID LED LED FLO FLORE (princ) or ILD MCD or FL display case Ltng) LED FLD pricing or ILD G8ft 100W HAL, INCLO, or HID LED FLD FLORE or ILD US ID ID HAL LED FLD FLORE OR ILD US ID LED FLD FLORE OR ILD US ID LED FLD FLORE OR ILD US ID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fature w_control per fature	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED Canopy replacing 253-400W HID LED Canopy replacing 253-400W HID LED Display Case (rplorg or ILO INCD or FL display case Ltng) LED FLD rplorg or ILO g6ft 100W HAL, INCD, or HID LED HIGH TUBE OF ILO UN TO LOW HAL INCD, or HID LED Highbay replacing 253-400W HID LED Highbay replacing 253-400W HID LED Highbay replacing 253-400W HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED - With Controls LED 5ft Case Lights, T8 to LED - With Controls LED 6ct Case Lights, T8 to LED - With Controls LED 6ct Case Lights, T8 to LED - With Controls LED Canopy replacing 251-400W HID LED Canopy replacing 251-400W HID LED LED 7LD 7plcng or LLO BY 100W HAL, INCD, or HID LED FLD 7plcng or ILO GRT 100W HAL, INCD, or HID LED Highbay replacing 251-400W HID LED Highbay replacing 251-400W HID LED Highbay replacing 251-400W HID LED Highbay replacing 254-400W HID LED Highbay replacing 254-400W HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.26 0.48	0.02 0.02 0.01 0.02 0.03 0.02 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	15 Lighting	NRLTG	per fature w_control per fature	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing 10 lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED - With Controls LED 5ft Case Lights, T8 to LED - With Controls LED Canopy replacing 251-400W HID LED Canopy replacing 251-400W HID LED Canopy replacing up to 175W HID LED Display Case (priong or ILD INCD or FL display case Ltng) LED FLD rpicing or ILD GRT 100W HAL, INCD, or HID LED FLD rpicing or ILD up to 100W HAL, INCD, or HID LED Highbay replacing 251-400W HID LED Highbay replacing 251-400W HID LED Lowbay replacing 257-W-250W HID LED Lowbay replacing up to 175W HID LED Lowbay replacing up to 175W HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.04	0.02 0.02 0.01 0.02 0.03 0.02 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 176-250W HID LED Canopy replacing or ILD WICD or FL display case Ltng) LED LED Lights or ILD GRT JOWN HID LED LIGH Tuber or ILD GRT JOWN HID LED Highbay replacing ye to 10 SW HID LED Highbay replacing 25-40W HID LED Highbay replacing 25-40W HID LED Highbay replacing 25-40W HID LED Lowbay replacing 176-250W HID LED Lowbay replacing 176-250W HID LED Lowbay replacing 176-250W HID LED Lowbay replacing 157-05-250W HID	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.26 0.48 0.18	0.02 0.02 0.01 0.02 0.03 0.02 0.03 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	15 Lighting	NRLTG	per fature w_control per fature	Non-Residential	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED - With Controls LED 5ft Case Lights, T8 to LED - With Controls LED Canopy replacing 176-250W HID LED Canopy replacing 1951-400W HID LED Canopy replacing up to 175W HID LED LED Fluor plicing or LIG SHT 100W HAL, INCD, or HID LED FLD right or LIG SHT 100W HAL, INCD, or HID LED FLD plicing or LIG SHT 100W HAL, INCD, or HID LED Highbay replacing 251-400W HID LED Light plicing or LIG SHT 100W HID LED Light plicing processing present than 400W HID LED Light plicing up to 175W HID LED Lowbay replacing process that the second shall be LED Panel 1x4 replacing or in lieu of T8 FL LED Panel 1x4 replacing or in lieu of T8 FL LED Panel 1x4 replacing or to 150 HID LED Panel 1x4 replacing to 150 HID LED Panel 1x4 replacing or to 150 HID LED Panel 1x4 replacing or to 150 HID LED Panel 1x4 replacing to 150 HID LED Panel 1x4 replacing to 150 HID LED LED TABLE 2x5 replacing to 150 HID LED LED LED TABLE 2x5 replacing to 150 HID LED LED LED TABLE 2x5 replacing to 150 HID LED TABLE 2x5 replacing to	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.04 0.04 0.04 0.05 0.01 0.01 0.01 0.02	0.02 0.02 0.01 0.02 0.03 0.02 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 176-250W HID LED Canopy replacing or ILD WICD or FL display case Ltng) LED LED Canopy or ILD GRT JOUN HAL, INCD, or HID LED HID pfcng or ILD GRT JOUN HAL, INCD, or HID LED Highbay replacing 25-40W HID LED Highbay replacing 25-40W HID LED Highbay replacing 25-40W HID LED Lowbay replacing 160W HID LED Lowbay replacing 176-250W HID LED Lowbay replacing 176-250W HID LED Lowbay replacing 176-250W HID LED Lowbay replacing 176-050W HID LED Panel 2x2 replacing or in lieu of T8 FL LED Panel 2x2 replacing or in lieu of T8 FL LED Panel 2x2 replacing or in lieu of T8 FL	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.12 0.18 0.08 0.02 0.14 0.04 0.26 0.48 0.18 0.12	0.02 0.02 0.01 0.02 0.02 0.03 0.02 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 176-250W HID LED Canopy replacing or ID 175W HID LED Lights Case (princip or LID WICD or FL display case Ltng) LED Light Case (princip or LID WICD or FL display case Ltng) LED HID princip or LID GHT JOWN HID LED Highbay replacing greater than 400W HID LED Highbay replacing 176-250W HID LED Lowbay replacing 176-250W HID LED Lowbay replacing 1576-250W HID LED Panel 2x2 replacing or in lieu of T8 FL LED Panel 2x2 replacing or in lieu of T8 FL LED Parable Task Lights (princip or ILD NLD, HAL, or CFL task Ltng) LED Shelf-monatored Task Lights (pricing or ILD INCD, HAL, or CFL task Ltng) LED Shelf-monatored Task Lights (pricing or ILD ILD, Lask Ltng)	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.26 0.48 0.18 0.12 0.00 0.12 0.00 0.00 0.00 0.00 0.00	0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 176-250W HID LED Canopy replacing or ILD WICD or FL display case Ltng) LED Canopy replacing up to 175W HID LED Light Desplacing up to 175W HID LED Light Desplacing up to 100 KID or FL display case Ltng) LED FL pricing or ILD GHT JODW HAL, INCD, or HID LED Highbay replacing 176-250W HID LED Light Desplacing 176W-250W HID LED Lowbay replacing 157W-250W HID LED Lowbay replacing 157W-250W HID LED Lowbay replacing 157W-250W HID LED Dendel 2x2 replacing or in lieu of T8 FL LED Panel 2x2 replacing or in lieu of T8 FL LED Parable Task Lights (riploring or ILD INCD, HAL, or CFL task Ltng) LED Tsek-Limonuted Task Lights (riploring or ILD INCD, HAL, or CFL task Ltng) LED Tsek-Limonuted Task Lights (riploring or ILD INCD, HAL, GH, or HD) Track Ltng (Incline) BOD Leve-Temp (SS Multi-Tank- C.WD New-ergel DO BO	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 193.99	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.012 0.18 0.08 0.02 0.14 0.04 0.04 0.05	0.02 0.01 0.02 0.01 0.02 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 176-250W HID LED Canopy replacing or ILD WICD or FL display case Ltng) LED Canopy replacing up to 175W HID LED Light Desplacing up to 175W HID LED Light Desplacing up to 100 KID or FL display case Ltng) LED FL pricing or ILD GHT JODW HAL, INCD, or HID LED Highbay replacing 176-250W HID LED Light Desplacing 176W-250W HID LED Lowbay replacing 157W-250W HID LED Lowbay replacing 157W-250W HID LED Lowbay replacing 157W-250W HID LED Dendel 2x2 replacing or in lieu of T8 FL LED Panel 2x2 replacing or in lieu of T8 FL LED Parable Task Lights (riploring or ILD INCD, HAL, or CFL task Ltng) LED Tsek-Limonuted Task Lights (riploring or ILD INCD, HAL, or CFL task Ltng) LED Tsek-Limonuted Task Lights (riploring or ILD INCD, HAL, GH, or HD) Track Ltng (Incline) BOD Leve-Temp (SS Multi-Tank- C.WD New-ergel DO BO	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1993.84 73.90 1466.12 80.18 50.44 186.58 93.82 19.39	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.04 0.04 0.04 0.05 0.01 0.02 0.01 0.03 0.01 0.00 0.00 0.00 0.00 0.00	0.02 0.02 0.01 0.02 0.02 0.02 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting	NRLTG	per fixture w control per fixture w fixture per fixtur	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 176-250W HID LED Canopy replacing up to 175W HID LED Lights Case (riplacing up to 175W HID LED Lights Case (riplacing up to 175W HID LED Highbay replacing 25-L90W HID LED Highbay replacing 25-L90W HID LED Highbay replacing 25-L90W HID LED Lights Case (riplacing 176W HID LED Lights Case (riplacing 176W LID LED Lights Lights Case (riplacing 176W LID LED Lowbay replacing 157W LID LED Lowbay replacing 157W LID LED Panel 2x2 replacing or in lieu of T8 FL LED Panel 2x2 replacing or in lieu of T8 FL LED Panel 2x4 replacing or in lieu of T8 FL LED Farak Lights (riplacing or ILD INCD), HAL, or CFL task Ling) LED Track Ling (riplacing or ILD INCD), HAL, CFL, or HID track Ling) LED Track Ling (riplacing or ILD INCD), HAL, or CFL task Ling) LED Track Ling (riplacing or ILD INCD), HAL, or CFL task Ling)	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 193.99	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.012 0.18 0.08 0.02 0.14 0.04 0.04 0.04 0.05 0.05 0.03 0.01 0.01 0.05 0.08 0.09	0.02 0.01 0.02 0.01 0.02 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w control per fixture w fixture per fixtur	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED - With Controls LED 6ft Case Lights, T8 to LED - With Controls LED Canopy replacing 251-400W HID LED Canopy replacing 251-400W HID LED Canopy replacing up to 175W HID LED LID Fluor placing up to 175W HID LED Fluor place or ILO GRT 100W HAL, INCD, or HID LED Fluor place or ILO GRT 100W HAL, INCD, or HID LED Highbay replacing 254-00W HID LED Lib Lib place place 254-00W HID LED Lib Lib Canopy replacing 154W-250W HID LED Lib Lib Lib Canopy replacing 154W-250W HID LED Panel 2x4 replacing or in lieu of T8 FL LED Panel 2x4 replacing or in lieu of T8 FL LED Panel 2x4 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8 FL LED Panel 2x6 replacing or in lieu of T8	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 977.32 420.48 74.04 519.63 152.92 1036.16 1093.64 73.901 466.12 80.18 50.44 186.58 93.82 19.39 19.759 22305.00 3011.00	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.26 0.48 0.12 0.02 0.01 0.05 0.03 0.01 0.05 0.06 0.07 0.07 0.07 0.07 0.07 0.08 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED Canopy replacing 176-250W HID LED Canopy replacing 176-250W HID LED Canopy replacing up to 175W HID LED Lights Case (riplacing up to 175W HID LED Lights Case (riplacing up to 175W HID LED Highbay replacing 25-L90W HID LED Highbay replacing 25-L90W HID LED Highbay replacing 25-L90W HID LED Lights Case (riplacing 176W HID LED Lights Case (riplacing 176W LID LED Lights Lights Case (riplacing 176W LID LED Lowbay replacing 157W LID LED Lowbay replacing 157W LID LED Panel 2x2 replacing or in lieu of T8 FL LED Panel 2x2 replacing or in lieu of T8 FL LED Panel 2x4 replacing or in lieu of T8 FL LED Farak Lights (riplacing or ILD INCD), HAL, or CFL task Ling) LED Track Ling (riplacing or ILD INCD), HAL, CFL, or HID track Ling) LED Track Ling (riplacing or ILD INCD), HAL, or CFL task Ling) LED Track Ling (riplacing or ILD INCD), HAL, or CFL task Ling)	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 77.04 510.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 193.91 197.59 22305.00 3011.00 200.00	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.012 0.18 0.08 0.02 0.14 0.04 0.04 0.04 0.05 0.05 0.03 0.01 0.01 0.05 0.08 0.09	0.02 0.02 0.01 0.02 0.02 0.03 0.03 0.03 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Case Lights, T8 to LED - With Controls LED Canopy replacing 251-400W HID LED Canopy replacing up to 175W HID LED Canopy replacing up to 175W HID LED Fluoren or ILO GRT 100W HID LED Fluoren or ILO GRT 100W HID LED Fluoren or ILO GRT 100W HID LED Highbay replacing greater than 400W HID LED Highbay replacing 15W-DSOW HID LED Lowbay replacing 15W-DSOW HID LED Lowbay replacing 15W-DSOW HID LED Lowbay replacing 15W-DSOW HID LED Dender 15W replacing or in lieu of T8 FL LED Panel 25d replacing or in lieu of T8 FL LED Panel 25d replacing or in lieu of T8 FL LED Panel 25d Lights (pricing or ILO INOC), HAL, Cr, Cr H task Ltng) LED Shelf-mounted Task Lights (pricing or ILO IPO, HAL, Cr, CPL task Ltng) LED Track Ltng (pricing or ILO INOC), HAL, Cr, Cr H to Task Ltng) LED Track Ltng (pricing or ILO INOC), HAL, CR, Cr H to Task Ltng) Low-Temp ES Multi-Tank - CNV DW New -repl on BO Low-Temp ES ULO WN New -repl on Burnout CP Oveer Management from Network Water Cooled Chiler _Centrifugal at least 150 tons and less than 300 tons	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 200.00	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.08 0.02 0.14 0.04 0.26 0.48 0.12 0.02 0.01 0.05 0.03 0.01 0.05 0.06 0.07 0.07 0.07 0.07 0.07 0.08 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.02 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w control per fixture per dishwasher per computer and monitor controlled	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 6map replacing 15-1400W HID LED Canopy replacing 15-1400W HID LED Canopy replacing up to 175W HID LED Canopy replacing up to 175W HID LED LID Flore or ILO GHT 100W HAL, INCD, or HID LED FLD ripcing or ILO GHT 100W HAL, INCD, or HID LED Highbay replacing 15-4500W HID LED Highbay replacing 15-4500W HID LED Lid budy replacing 15-4500W HID LED Fluorescent 15-4500W HID LED Fluo	86.51 48.33 80.55 112.78 145.00 109.27 142.05 666.08 77.23 420.48 73.04 151.63 152.92 1036.16 1903.64 733.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 29.88 29.88 29.88 29.88 29.88	0.02 0.02 0.01 0.02 0.03 0.04 0.04 0.05 0.03 0.04 0.04 0.04 0.04 0.06 0.07 0.07 0.07 0.07 0.07 0.07 0.07	0.02 0.02 0.01 0.02 0.02 0.03 0.03 0.03 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring or ILO 6ft 1000 Mta) LED 6ft Case (Floring Case (Floring or ILO 1000 Mta) LED 6ft Case (Floring Case (Floring or ILO 1000 Mta) LED 6ft Case (Floring or ILO 1000 Mta) LED 7ft Case (Floring or ILO 1000 Mta) LED 7ft Case (Floring or ILO 1000 Mta) LED 7ft Case (Floring or ILO 1000 Mta) Low-Temp ES Multi-Tank - CNV DW New - repl on BO Low-Temp ES DU DW New - repl on Bumout PC Power Management from Network Water Cooled Chiller _Centrifugal at least 500 tons and less than 500 tons Water Cooled Chiller _Centrifugal at least 500 tons and less than 500 tons Water Cooled Chiller _Centrifugal at least 500 tons and less than 500 tons Water Cooled Chiller _Centrifugal at least 500 tons and less than 500 tons	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1093.64 739.01 466.12 80.18 50.44 186.58 93.82 103.90	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.12 0.18 0.02 0.14 0.04 0.26 0.48 0.12 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fature w control per fature w control per fature per dishwasher per computer and monitor controlled per ton per ton	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 6map replacing 25-1400W HID LED Canopy replacing 25-1400W HID LED Display Case (pricing or ILD INCD or FL display case Ltng) LED FID Typing or ILG GHT 100W HAL, INCD, or HID LED Highbay replacing 25-1400W HID LED Highbay replacing 25-1400W HID LED Lights (Proplacing 1576-250W HID LED Lowbay replacing or in lieu of T8 FL LED Panel 232 replacing or in lieu of T8 FL LED Paralel 24 Replacing or in lieu of	86.51 48.33 80.55 112.78 145.00 109.27 142.05 666.08 77.232 420.48 73.04 151.05 152.92 1036.16 1903.64 733.01 466.12 80.18 50.44 188.58 93.82 19.39 197.59 22305.00 3011.00 29.88 29	0.02 0.02 0.01 0.02 0.03 0.04 0.04 0.05 0.08 0.09 0.04 0.04 0.04 0.06 0.07 0.08 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.02 0.03 0.03 0.03 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case (Floring or LEO 18ft Case) LED 6ft Case (Floring or LEO 18ft Case) LED 6ft Case (Floring or LEO 18ft Case) LED 7ft Case (Floring or LEO 18ft Cas	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1003.64 739.01 466.12 80.18 50.44 186.58 93.82 103.90 22365.00 3011.00 200.00 29.88 29.88 29.88 33.62 40.34 36.61 43.78	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.01 0.02 0.03 0.01 0.02 0.04 0.02 0.04 0.02 0.04 0.05 0.06 0.06 0.07 0.06 0.07 0.07 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w control per fixture per fixture per fixture per fixture per fixture per fixture w fixture per fixture w fixture per fixture w fixture per fixture pe	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 5ft Case Lights, T8 to LED LED 6map replacing 25-1400W HID LED Canopy replacing 25-1400W HID LED Display Case (pricing or ILD INCD or FL display case Ltng) LED FID Typing or ILG GHT 100W HAL, INCD, or HID LED Highbay replacing 25-1400W HID LED Highbay replacing 25-1400W HID LED Lights (Proplacing 1576-250W HID LED Lowbay replacing or in lieu of T8 FL LED Panel 232 replacing or in lieu of T8 FL LED Paralel 24 Replacing or in lieu of	86.51 48.33 80.55 112.78 145.00 109.27 142.05 666.08 77.23 420.48 73.04 510.63 152.92 1036.16 1903.64 733.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 20.00 29.88 29.88 29.88 29.88 29.88 40.34 43.66 14.78 40.44 40.	0.02 0.02 0.01 0.02 0.03 0.04 0.04 0.05 0.08 0.09 0.04 0.04 0.04 0.06 0.07 0.08 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.02 0.03 0.03 0.03 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Food Service Products 10 Fo	NRLTG	per fixture w_control per fixture	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 7ft Case (Florica) LED LED 7ft Case	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 200.00 29.88 29.88 33.62 40.34 36.61 43.78 44.83 31319.69	0.02 0.02 0.01 0.02 0.03 0.03 0.04 0.02 0.03 0.01 0.02 0.18 0.02 0.14 0.04 0.02 0.14 0.04 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lig	NRLTG	per fixture w control per fixture per fixture per fixture per fixture per fixture per fixture w fixture per fixture w fixture per fixture w fixture per fixture pe	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 7ft Case Lights, T8 to LED Li	86.51 48.33 80.55 112.78 145.00 109.27 142.05 666.08 77.23 420.48 73.04 510.63 152.92 1036.16 1903.64 733.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 20.00 29.88 29.88 29.88 29.88 29.88 40.34 43.66 14.78 40.44 40.	0.02 0.02 0.01 0.02 0.03 0.04 0.04 0.05 0.03 0.04 0.06 0.08 0.02 0.01 0.08 0.02 0.01 0.08 0.02 0.01 0.08 0.02 0.01 0.05 0.03 0.01 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.02 0.02 0.01 0.02 0.02 0.03 0.03 0.03 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lighting 19 Lighting 10 Food Service Products 10 Food Service Products 10 Food Service Products 20 HVAC	NRLTG	per fixture w_control per fixture per fixt	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 7ft Case (Florica) LED LED 7ft Case	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 200.00 29.88 29.88 33.62 40.34 36.61 43.78 44.83 31319.69	0.02 0.02 0.01 0.02 0.03 0.03 0.04 0.02 0.03 0.01 0.02 0.18 0.02 0.14 0.04 0.02 0.14 0.04 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.01 0.02 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lig	NRLTG	per fixture w control per fixture per fixture per fixture per fixture per fixture per fixture we fixture we fixture we fixture we fixture we fixture we fixture per fixture pe	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 10 Canopy replacing 251-400W HID LED Canopy replacing 251-400W HID LED Canopy replacing 251-400W HID LED 10 Floring or ILO GRT 100W HAL, INCD, or HID LED Floring or ILO GRT 100W HAL, INCD, or HID LED Highbay replacing greater than 400W HID LED Highbay replacing greater than 400W HID LED 10 Lowbay replacing 1576-250W HID LED Lowbay replacing 1576-250W HID LED Lowbay replacing to 175W HID LED Panel 232 replacing or in lieu of T8 FL LED Panel 232 replacing or in lieu of T8 FL LED Panel 240 Multi-Tank - CNU DN New -replo no Burnout PC Power Management from Network Water Cooled Chiller_Centrifugal at least 300 tons and less than 500 tons Water Cooled Chiller_Centrifugal at least 350 tons and less than 500 tons Water Cooled Chiller_Centrifugal at least 350 tons and less than 500 tons Water Cooled Chiller_Centrifugal at least 300 t	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.56 1739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 20.00 29.88 29.88 29.88 29.88 29.88 29.88 33.62 40.34 36.61 43.78 44.83	0.02 0.02 0.01 0.02 0.03 0.04 0.04 0.05 0.03 0.04 0.06 0.08 0.02 0.01 0.08 0.02 0.01 0.08 0.02 0.01 0.08 0.02 0.01 0.05 0.03 0.01 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.02 0.02 0.02 0.01 0.02 0.02 0.03 0.03 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lighting 19 Lighting 10 Food Service Products 10 Food Service Products 10 Food Service Products 20 HVAC	NRLTG	per fixture w control per fixture per fixt	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 7ft Case Lights, T8 to LED LED 7ft Case (TID 6ft Case Lights) LED 7ft Case Lights, T8 to LED LED 7ft Cas	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 200.00 29.88 29.88 33.62 40.34 36.61 43.78 44.83 1319.69 1400.02 649.89	0.02 0.02 0.01 0.02 0.03 0.03 0.04 0.02 0.03 0.01 0.02 0.13 0.04 0.02 0.14 0.04 0.05 0.03 0.01 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.02 0.02 0.01 0.02 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w control per fixture per fixt	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6conpoy replacing 15-1-400W HID LED Canopy replacing 25-1-400W HID LED Canopy replacing 25-1-400W HID LED Canopy replacing 25-1-400W HID LED Floring or ILO 6ft T00W HAL, INCD, or HID LED Floring or ILO 6ft T00W HAL, INCD, or HID LED Highbay replacing 251-400W HID LED Highbay replacing 251-400W HID LED Lights (South 100 HID) LED Highbay replacing preater than 400W HID LED Lights (South 100 HID) LED Lights (South 100 HID) LED Highbay replacing 251-400W HID LED Lights (South 100 HID) LED Lights (South 100 HID) LED Highbay replacing 251-400W HID LED Lights (South 100 HID) LED Lights (South 100 HID) LED Floring 15 HID LIGHT (South 100 HID) LED Floring 15 HID LIGHT (South 100 HID) LED Lights (South 100 HID) LED Floring 15 HID LIGHT (Sout	86.51 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 402.48 73.04 1519.63 152.92 1036.16 1903.564 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 20.00 29.88 29.88 29.88 29.88 29.88 29.88 44.83 33.62 40.34 46.61 43.78 46.61 43.78 44.83 31.31,62 40.34 46.61	0.02 0.02 0.01 0.02 0.03 0.04 0.04 0.05 0.03 0.04 0.08 0.02 0.14 0.04 0.06 0.07 0.08 0.02 0.01 0.08 0.02 0.01 0.08 0.02 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.03 0.01 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w_control per fixture per fixt	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Candoy replacing 176-250W HID LED Candoy replacing 176-250W HID LED Candoy replacing 175-250W HID LED LED 6ft Case (Lights, T8 to LED) LED 6ft Case (Lights, T8 to LED) LED 6ft Case (Lights, T8 to LED) LED 7ft prices or LED 6ft Case (Lights) LED 7ft prices (Lights) LED	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 200.00 20.88 29.88 23.62 40.34 36.61 43.78 44.83 1319.69 1400.02 649.89 803.61 774.78	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.04 0.04 0.05 0.04 0.06 0.06 0.07 0.07 0.07 0.07 0.07 0.07	0.02 0.02 0.01 0.02 0.03 0.03 0.05 0.00 0.00 0.00 0.00 0.01 0.05 0.01 0.09 0.02 0.01 0.04 0.05 0.05 0.06 0.06 0.06 0.06 0.07 0.07 0.08 0.08 0.09 0.09 0.00 0.00 0.01 0.04 0.05 0.05 0.06 0.06 0.06 0.06 0.06 0.06	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w control per fixture per fixt	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 6ft Case Lights, T8 to LED LED 1000	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22365.00 3011.00 22.88 22.88 23.86 24.034 36.61 43.78 44.83 1319.69 1400.02 649.89 803.61 774.78	0.02 0.02 0.01 0.02 0.03 0.04 0.04 0.05 0.03 0.04 0.08 0.02 0.03 0.04 0.08 0.02 0.03 0.04 0.08 0.02 0.03 0.03 0.04 0.04 0.05 0.03 0.07 0.05 0.03 0.07 0.05 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w_control per fixture per fixt	Non-Residential Non-Residentia	Engineering Estimates	CleaResults
LED 4ft Case Lights, T8 to LED LED 4ft Case Lights, T8 to LED LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 1-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 2-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 3-LED, replacing or in lieu of T8 fluorescent LED 4ft Tube 4-LED, replacing or in lieu of T8 fluorescent LED 5ft Case Lights, T8 to LED LED 6ft Candoy replacing 176-250W HID LED Candoy replacing 176-250W HID LED Candoy replacing 175-250W HID LED Candoy replacing 10 to 10 NCD or FL display case Ltng) LED 6ft Candoy replacing 10 to 10 NCD or FL display case Ltng) LED 10 plong or ILC 0 HID 10 NCD or FL display case Ltng) LED 10 plong or ILC 0 HID 10 NCD or HID LED Highbay replacing 156-250W HID LED Highbay replacing 176-250W HID LED Lowbay replacing 176-250W HID LED Florescent 176-250W HID LED Lowbay replacing 176-180W HID LED Florescent 176-250W HID LED Florescent 176-	86.51 115.65 48.33 80.55 112.78 145.00 109.27 142.05 666.08 972.32 420.48 74.04 519.63 152.92 1036.16 1903.64 739.01 466.12 80.18 50.44 186.58 93.82 19.39 197.59 22305.00 3011.00 200.00 20.88 29.88 29.88 29.88 33.62 40.34 36.61 43.78 44.83 3119.69 1400.02 649.89 803.61 774.78 937.13 694.34	0.02 0.02 0.01 0.02 0.03 0.04 0.02 0.03 0.01 0.08 0.02 0.03 0.01 0.04 0.04 0.04 0.04 0.06 0.08 0.09 0.01 0.05 0.03 0.01 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.02 0.02 0.01 0.02 0.03 0.03 0.05 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lig	NRLTG	per fixture w control per fixture per fixt	Non-Residential Non-Residentia	Engineering Estimates	CleaResults CleaRe

DX RTU Tune-up_ AC_ Fixed Orifice_ +15% chg adj	141.26	9999.00	0.15	0.00	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up AC Fixed Orifice +20% chg adj	200.11	9999.00	0.22	0.00	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ Fixed Orifice_ +25% chg adj	326.94	9999.00	0.36	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_AC_ Fixed Orifice_ +30% chg adj	470.11	9999.00	0.51	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ Fixed Orifice_ +5% chg adj	42.13	9999.00	0.05	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ Fixed Orifice20% chg adj	24.76	9999.00	0.03	0.00	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ TXV_ +10% chg adj	42.13	9999.00	0.05	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ TXV_ +15% chg adj	51.09	9999.00	0.06	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ TXV_ +20% chg adj	60.25	9999.00	0.07	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ TXV_ +25% chg adj	79.17	9999.00	0.09	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ TXV_ +30% chg adj	109.15	9999.00	0.12	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ TXV_ +5% chg adj	24.76	9999.00	0.03	0.00	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ AC_ TXV20% chg adj	33.35	9999.00	0.04	0.00	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ Fixed Orifice_ +10% chg adj	383.67	9999.00	0.10	0.10	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ Fixed Orifice_ +15% chg adj	609.36	9999.00	0.15	0.16	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ Fixed Orifice_ +20% chg adj	863.26	9999.00	0.22	0.22	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ Fixed Orifice_ +25% chg adj	1410.39	9999.00	0.36	0.36	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ Fixed Orifice_ +30% chg adj	2027.96	9999.00	0.51	0.52	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ Fixed Orifice_ +5% chg adj	181.74	9999.00	0.05	0.05	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ Fixed Orifice20% chg adj	106.79	9999.00	0.03	0.03	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ TXV_ +10% chg adj	181.74	9999.00	0.05	0.05	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ TXV_ +15% chg adj	220.41	9999.00	0.06	0.06	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ TXV_ +20% chg adj	259.90	9999.00	0.07	0.07	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ TXV_ +25% chg adj	341.51	9999.00	0.09	0.09	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ TXV_ +30% chg adj	470.87	9999.00	0.12	0.12	10 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ TXV_ +5% chg adj	106.79	9999.00	0.03	0.03	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
DX RTU Tune-up_ HP_ TXV20% chg adj	143.88	9999.00	0.04	0.04	10 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
EC Plug Fan_ 20 HP	65076.65	7.43	0.00	0.00	10 Information Technology	NRIT	per 20HP Fan	Non-Residential Engineering Estimates	CleaResults
EC Plug Fan_ 3 HP	10143.23	1.16	0.00	0.00	10 Information Technology	NRIT	per 3HP Fan	Non-Residential Engineering Estimates	CleaResults
EC Plug Fan_ 5 HP	16905.39	1.93	0.00	0.00	10 Information Technology	NRIT	per 5HP Fan	Non-Residential Engineering Estimates	CleaResults
EC Plug Fan_10 HP	32999.61	3.77	0.00	0.00	10 Information Technology	NRIT	per 10HP Fan	Non-Residential Engineering Estimates	CleaResults
EC Plug Fan_15 HP	48807.49	5.57	0.00	0.00	10 Information Technology	NRIT	per 15HP Fan	Non-Residential Engineering Estimates	CleaResults
EC Plug Fan_2 HP	6996.68	0.80	0.00	0.00	10 Information Technology	NRIT	per 2HP Fan	Non-Residential Engineering Estimates	CleaResults
EC Plug Fan_7.5 HP	24940.09	2.85	0.00	0.00	10 Information Technology	NRIT	per 7.5HP Fan	Non-Residential Engineering Estimates	CleaResults
FHAC_No Variable Speed_1975-1985	623.08	9999.00	0.09	0.09	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHAC_No Variable Speed_1985-1996	471.58	9999.00	0.07	0.07	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHAC_No Variable Speed_1996-2003	300.89	9999.00	0.04	0.04	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHAC_No Variable Speed_less than 1975	620.59	9999.00	0.09	0.09	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHAC_Variable Speed_1975-1985	890.55	9999.00	0.12	0.12	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHAC_Variable Speed_1985-1996	890.55	9999.00	0.12	0.12	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHAC_Variable Speed_1996-2003	890.55	9999.00	0.12	0.12	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHAC_Variable Speed_less than 1975	890.55	9999.00	0.12	0.12	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_No Variable Speed_1975-1985	1165.63	9999.00	0.16	0.16	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_No Variable Speed_1985-1996	669.22	9999.00	0.09	0.09	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_No Variable Speed_1996-2003	452.27	9999.00	0.06	0.06	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_No Variable Speed_less than 1975	1156.98	9999.00	0.16	0.16	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_Variable Speed_1975-1985	1266.22	9999.00	0.18	0.18	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_Variable Speed_1985-1996	841.98	9999.00	0.12	0.12	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_Variable Speed_1996-2003	577.90	9999.00	0.08	0.08	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
FHWC_Variable Speed_less than 1975	1256.99	9999.00	0.17	0.17	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
Floating Suction_1975-1985	282.63	9999.00	0.00	0.00	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
Floating Suction_1985-1996	222.57	9999.00	0.00	0.00	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
Floating Suction_1996-2003	197.69	9999.00	0.00	0.00	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
Floating Suction_less than 1975	280.00	9999.00	0.00	0.00	16 Food Service Products	NRFS	per HP	Non-Residential Engineering Estimates	CleaResults
HVAC DX AC 135-240kBtuh 11.7 EER (Tier 0_1)	80.43	9999.00	0.06	0.00	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX AC 135-240kBtuh 12.2 EER (Tier 2)	119.98	9999.00	0.09	0.00	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX AC 240-760kBtuh 10.5 EER (Tier 0_1)	76.82	9999.00	0.06	0.00	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX AC 240-760kBtuh 10.8 EER (Tier 2)	106.69	9999.00	0.08	0.00	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX AC 65-135kBtuh 11.7 EER (Tier 0_1)	61.42	9999.00	0.05	0.00	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX AC 65-135kBtuh 12.2 EER (Tier 2) HVAC DX AC greater than 760kBtuh 10.4 EER (Tier 2)	100.97 102.86	9999.00 9999.00	0.08	0.00	15 HVAC 15 HVAC	NRHVAC NRHVAC	per ton per ton	Non-Residential Engineering Estimates Non-Residential Engineering Estimates	CleaResults CleaResults
HVAC DX AC greater than 760kBtuh 10.4 EER (Tier 2) HVAC DX AC greater than 760kBtuh 9.9 EER (Tier 0 1)	48.03	9999.00	0.08	0.00	15 HVAC	NRHVAC	per ton per ton		CleaResults
	62.04	9999.00		0.00	15 HVAC	NRHVAC			CleaResults
HVAC DX AC less than 65kBtuh 14 SEER (Tier 0_1) HVAC DX AC less than 65kBtuh 15 SEER (Tier 2)	115.82	9999.00	0.05 0.10	0.00	15 HVAC 15 HVAC	NRHVAC	per ton per ton	Non-Residential Engineering Estimates Non-Residential Engineering Estimates	CleaResults
HVAC DX AC less trial backetin 15 SEEK (Tier 2) HVAC DX HP 135-240kBtuh 10.9 EER 3.3 COP (Tier 1)	143.73	9999.00	0.10	0.00	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates Non-Residential Engineering Estimates	CleaResults
HVAC DX HP 135-240kBtuh 10.9 EER 3.3 COP (Tier 1) HVAC DX HP 65-135kBtuh 11.3 EER 3.4 COP (Tier 1)	143.73 123.32	9999.00	0.09	0.02	15 HVAC 15 HVAC	NRHVAC	per ton per ton	Non-Residential Engineering Estimates Non-Residential Engineering Estimates	CleaResults CleaResults
HVAC DX HP greater than 240 kBtuh 10.3 EER 3.3 COP (Tier 1)	130.44	9999.00	0.08	0.02	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX HP greater triair 240 kBtuli 10.5 EER 5.5 COP (Net 1) HVAC DX HP Packaged less than 65kBtuli 14 SEER 8 HSPF (Tier 1)	103.71	9999.00	0.05	0.02	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates Non-Residential Engineering Estimates	CleaResults
HVAC DX HP Packaged less than 65kBtuh 15 SEER 8.5 HSPF (Tier 2)	90.60	9999.00	0.05	0.03	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX HP Split less than 65kBtuh 14 SEER 8.5 HSPF (Tier 1)	166.62	9999.00	0.05	0.08	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX HP Split less than 65kBtuh 15 SEER 9 HSPF (Tier 2)	146.52	9999.00	0.05	0.07	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split AC 15 SEER	115.82	9999.00	0.10	0.00	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split AC 16 SEER	179.15	9999.00	0.14	0.00	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split AC 18 SEER	265.41	9999.00	0.21	0.00	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split AC 20 SEER	334.42	9999.00	0.26	0.00	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split HP 15 SEER 8.5 HSPF	90.60	9999.00	0.05	0.03	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split HP 16 SEER 8.5 HSPF	137.65	9999.00	0.09	0.03	15 HVAC	NRHVAC	perton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split HP 18 SEER 9.6 HSPF	331.40	9999.00	0.16	0.12	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX mini split HP 20 SEER 9.6 HSPF	394.14	9999.00	0.21	0.12	15 HVAC	NRHVAC	per ton	Non-Residential Engineering Estimates	CleaResults
HVAC DX PTAC 12000 Btuh 10.7 EER	51.73	9999.00	0.04	0.00	15 HVAC	NRHVAC	per unit	Non-Residential Engineering Estimates	CleaResults
HVAC DX PTAC 15000 Btuh 9.8 EER	77.44	9999.00	0.06	0.00	15 HVAC	NRHVAC	per unit	Non-Residential Engineering Estimates	CleaResults
HVAC DX PTAC 7600 Btuh 12.2 EER	34.60	9999.00	0.03	0.00	15 HVAC	NRHVAC	per unit	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 10HP	23003.87	2.63	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 10HP w Economizer	11381.83	1.30	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 15HP	34023.46	3.88	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 15HP w Economizer	16834.09	1.92	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 20HP	45364.62	5.18	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 20HP w Economizer	22445.46	2.56	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 25HP w Economizer	27876.97	3.18	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 30HP w Economizer	33274.61	3.80	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 40HP w Economizer	44366.15	5.06	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 50HP w Economizer			0.00	0.00	10 Information Technology	NRIT	per pump		CleaResults
VPDs on chined water pumps 50HP w economizer	55222.95	6.30	0.00		10 illioritation recitiology	INDII	per pump	Non-Residential Engineering Estimates	
VFDs on chilled water pumps 5HP	11784.66	1.35	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates Non-Residential Engineering Estimates	CleaResults
	11784.66 5830.80								
VFDs on chilled water pumps 5HP	11784.66	1.35	0.00	0.00	10 Information Technology	NRIT	per pump	Non-Residential Engineering Estimates	CleaResults
VFDs on chilled water pumps 5HP VFDs on chilled water pumps 5HP w Economizer	11784.66 5830.80	1.35 0.67	0.00 0.00	0.00	10 Information Technology 10 Information Technology	NRIT NRIT	per pump per pump	Non-Residential Engineering Estimates Non-Residential Engineering Estimates	CleaResults CleaResults

CleaResults

VFDs on Chilled water pumps 7.5HP w Economizer VFDs on CRAC CRAH AHU fans 10HP	8602.04 22261.96	0.98 2.54	0.00	0.00	10 Information Technology 10 Information Technology	NRIT	per pump per fan	Non-Residential Non-Residential	Engineering Estimates	CleaResults CleaResults
VFDs on CRAC CRAH AHU fans 15HP	32926.15	3.76	0.00	0.00	10 Information Technology	NRIT	per fan		Engineering Estimates Engineering Estimates	CleaResults
VFDs on CRAC CRAH AHU fans 20HP	43901.54	5.01	0.00	0.00	10 Information Technology	NRIT	per fan	Non-Residential	Engineering Estimates	CleaResults
VFDs on CRAC CRAH AHU fans 2HP	4720.05	0.54	0.00	0.00	10 Information Technology	NRIT	per fan	Non-Residential	Engineering Estimates	CleaResults
VFDs on CRAC CRAH AHU fans 3HP	6842.75	0.78	0.00	0.00	10 Information Technology	NRIT	per fan	Non-Residential	Engineering Estimates	CleaResults
VFDs on CRAC CRAH AHU fans 5HP	11404.59	1.30	0.00	0.00	10 Information Technology	NRIT	per fan	Non-Residential	Engineering Estimates	CleaResults
VFDs on CRAC CRAH AHU fans 7.5HP	16824.90	1.92	0.00	0.00	10 Information Technology	NRIT	per fan	Non-Residential	Engineering Estimates	CleaResults
Low Flow Showerhead (DI) - COMM, public use 1.5 gpm	793.00	0.09	0.03	0.03	10 HVAC	NRHVAC	per showerhead		Engineering Estimates	CleaResults
Chilled Water Reset- Air Cooled Chillers, Grocery	17.20	0.02	0.00	0.00	10 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	CleaResults
Chilled Water Reset- Air Cooled Chillers, Other	13.70	0.02	0.00	0.00	10 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	CleaResults
Chilled Water Reset- Air Cooled Chillers, Retail	19.20	0.02	0.00	0.00	10 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	CleaResults
Chilled Water Reset- Water Cooled Chillers, Other	8.35	0.01	0.00	0.00	10 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	CleaResults
Chilled Wtr Reset- Air Cooled Chillers, College or Sm Ofc Chilled Wtr Reset- Air Cooled Chillers. SCH (K-12)	11.90 9.17	0.02	0.00	0.00	10 HVAC 10 HVAC	NRHVAC NRHVAC	per ton per ton	Non-Residential Non-Residential	Engineering Estimates Engineering Estimates	CleaResults CleaResults
Chilled Wtr Reset- Air Cooled Chillers, SCH (K-12) Chilled Wtr Reset- Wtr Cooled Chillers, College or Sm Ofc	7.23	0.02	0.00	0.00	10 HVAC	NRHVAC	per ton per ton	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
Chilled Wtr Reset- Wtr Cooled Chillers, Retail	11.70	0.01	0.00	0.00	10 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	CleaResults
Chilled Wtr Reset- Wtr Cooled Chillers, SCH (K-12)	5.60	0.01	0.00	0.00	10 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	CleaResults
Chilled Wtr Reset-Wtr Cooled Chillers, Grocery	10.50	0.01	0.00	0.00	10 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	CleaResults
Faucet Aerator (DI) - COMM, pvt use 0.5 gpm	224.00	0.03	0.03	0.03	10 HVAC	NRHVAC	per aerator	Non-Residential	Engineering Estimates	CleaResults
Faucet Aerator (DI) - COMM, pvt use 1.0 gpm	158.00	0.02	0.02	0.02	10 HVAC	NRHVAC	per aerator	Non-Residential	Engineering Estimates	CleaResults
Faucet Aerator (DI) - Commercial, public use 0.5 gpm	1597.00	0.18	0.03	0.03	10 HVAC	NRHVAC	per aerator	Non-Residential	Engineering Estimates	CleaResults
Faucet Aerator (DI) - Commercial, public use 1.0 gpm	1127.00	0.13	0.02	0.02	10 HVAC	NRHVAC	per aerator		Engineering Estimates	CleaResults
Faucet Aerator (DI) - School, public use 0.5 gpm	1199.00	0.14	0.03	0.03	10 HVAC	NRHVAC	per aerator	Non-Residential	Engineering Estimates	CleaResults
Faucet Aerator (DI) - School, public use 1.0 gpm	846.00	0.10	0.02	0.02	10 HVAC	NRHVAC	per aerator	Non-Residential	Engineering Estimates	CleaResults
Low Flow Showerhead (DI) - COMM, pvt use 1.5 gpm	396.00	0.05	0.03	0.03	10 HVAC	NRHVAC	per showerhead	Non-Residential	Engineering Estimates	CleaResults
Water Heater Pipe Insulation	77.00	0.01	0.01	0.01	13 HVAC	NRHVAC	per ft	Non-Residential	Engineering Estimates	CleaResults
Walk-In Cooler Automatic Door-Closer Retrofit	668.00	9999.00	0.00	9999.00	8 Food Service Products	NRFS	per automatic door-closer	Non-Residential	Engineering Estimates	CleaResults
Walk-In Freezer Automatic Door-Closer Retrofit CoolRoof New Replace on Burnout College-sq ft	1753.00 0.48	9999.00	0.00	9999.00	8 Food Service Products 15 HVAC	NRFS NRHVAC	per automatic door-closer per so ft	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults CleaResults
CoolRoof New Replace on Burnout College-sq ft CoolRoof New Replace on Burnout Health-sq ft	0.48	9999.00	0.00	9999.00	15 HVAC 15 HVAC	NRHVAC NRHVAC	per sq ft per sq ft	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout Health-sq ft CoolRoof New Replace on Burnout Hotel-sq ft	0.32	9999.00	0.00	9999.00	15 HVAC 15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout Large Office-sq ft	0.45	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout Medium Offic-sq ft	0.21	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout Motel-sq ft	0.06	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout Other-sq ft	0.32	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout Retail-sq ft	0.57	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout School-sq ft	0.41	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
CoolRoof New Replace on Burnout Strip Mall-sq ft	0.45	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
DCV Retrofit Medium Office - per sq ft	0.14	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
DCV Retrofit Motel - per sq ft	0.22	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
DCV Retrofit Restaurant - per sq ft	0.01	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft		Engineering Estimates	CleaResults
DCV Retrofit Retail - per sq ft	0.18	9999.00	0.00	9999.00	15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates	CleaResults
DCV Retrofit School - per sq ft DCV Retrofit Small Office - per sq ft	0.22	9999.00	0.00	9999.00	15 HVAC	NRHVAC NRHVAC	per sq ft		Engineering Estimates Engineering Estimates	CleaResults CleaResults
DCV Retrofit Small Office - per sq ft DCV Retrofit Strip Mall - per sq ft	0.11	9999.00	0.00	9999.00	15 HVAC 15 HVAC	NRHVAC	per sq ft	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
High Bay T8 4ft 2L rplcng 150-249W HID (retrofit only)	512.00	0.13	0.10	0.10	15 HVAC 15 Lighting	NRLTG	per sq rc per fixture	Non-Residential	Engineering Estimates Engineering Estimates	CleaResults
	85.00	0.02	0.02	0.02	8 Lighting	NRLTG	per control	Non-Residential	Engineering Estimates	CleaResults
Switch or Fixture-Mounted Daylight Sensor SRES HVAC AC										
SWITCH OF FIXTURE-MOUNTED DAYLIGHT SERSOR SBES HVAC AC SBES HVAC HP	1.00	9999.00 9999.00	9999.00 9999.00	9999.00 9999.00	15 Small Business Energy Saver	SSBDIR SSBDIR	per kWh		Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy
SBES HVAC AC SBES HVAC HP		9999.00	9999.00	9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver	SSBDIR	per kWh	Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy Duke Energy
SBES HVAC AC	1.00 1.00	9999.00 9999.00	9999.00 9999.00	9999.00 9999.00	15 Small Business Energy Saver	SSBDIR SSBDIR	per kWh per kWh	Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy Duke Energy Duke Energy
SBES HVAC AC SBES HVAC HP SBES Lighting 8760 SBES Lighting Daylighting	1.00 1.00 1.00	9999.00 9999.00 0.0001142	9999.00 9999.00 0.0001142	9999.00 9999.00 0.0001142	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver	SSBDIR SSBDIR SSBDIR	per kWh per kWh per kWh	Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy Duke Energy Duke Energy Duke Energy
SBES HVAC AC SBES HVAC HP SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Dusktobawn SBES OutSensors	1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0002664	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR	per kWh per kWh per kWh per kWh per kWh per kWh	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy
SBES HVAC AC SBES HVAC AP SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting Duskrobawn SBES OccSensors SBES Refrigeration	1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0002664 0.0001142	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR	per kWh	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy
SBES HVAC AC SBES Lything 8760 SBES Lighting Paylighting SBES Lighting Daylighting SBES Lighting DusktoDawn SBES Cockensors SBES Refrigeration Custom Rebate	1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664	9999.00 9999.00 0.0001142 0.0002664 0.000000 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 16 Custom	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC	per kWh	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy ErcMarket Works
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting DusktoDawn SBES Coccensors SBES Refrigeration Custom Rebate PowerShare	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.000000 0.0002664 0.0001142 0.16 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share*	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR	per kWh	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EM&V Evaluation	Duke Energy TecMarket Works TecMarket Works
SBES HVAC AC SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting DusktoDawn SBES Coccensors SBES Selfring Fourthood Custom Rebate PowerShare Remote-Mounted Daylight Sensor	1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142	9999.00 9999.00 0.0001142 0.0002664 0.000000 0.0002664 0.0001142 0.16 1.00 0.10	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share® 8 Lighting	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR NRLTG	per kWh	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	Duke Energy TecMarket Works TecMarket Works Duke Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting bylighting SBES Lighting Dusktobawn SBES Occisenors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBOR Swinch 30% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.000000 0.0002664 0.0001142 0.16 1.00 0.10 2.25	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Lighting 1 Power Manager* for Business	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR NRLTG SBEEDR	per kWh	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME V evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt)	Duke Energy TecMarket Works TecMarket Works Duke Energy Duke Energy Duke Energy Duke Energy
SBES HVAC AC SBES HVAC HP SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting Duskrobawn SBES Occsensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 30% DR SBDR Switch 50% DR SBDR Switch 50% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0002664 0.001142 0.16 1.00 0.10 2.25 3.83	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Lighting 1 Power Manager* for Business 1 Power Manager* for Business 1 Power Business 1 Power Business 1 Power Business	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR	per kWh per poject/facility per KW net of fine losses per control per device per device	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy TecMarket Works TecMarket Works Duke Energy Duke Energy Duke Energy Duke Energy Duke Energy
SBES HVAC AC SBES HVAC AC SBES HVAC AP SBES Lighting B7BG SBES Lighting Daylighting SBES Lighting Dusktobawn SBES Occisenors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 50% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.000000 0.0002664 0.0001142 0.16 1.00 0.10 2.25 3.83 6.08	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Lighting 1 Power Manager* for Business	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR	per kWh per kyni per project/facility per project/facility per control per device per device per device	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS Vealuation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy TecMarket Works TecMarket Works Duke Energy
SBES HVAC AC SBES HVAC HP SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting DusktoDawn SBES Coccensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 30% DR SBDR Switch 50% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0002664 0.0001142 0.16 1.00 0.10 2.25 3.83 6.08 2.01	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Lighting 1 Power Manager* for Business	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR SBEEDR	per kWh per kown p	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy TecMarket Works TecMarket Works Duke Energy
SBES HVAC AC SBES HVAC AC SBES HVAC AP SBES Lighting B7BG SBES Lighting Daylighting SBES Lighting Dusktobawn SBES Occisenors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 50% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.000000 0.0002664 0.0001142 0.16 1.00 0.10 2.25 3.83 6.08	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Lighting 1 Power Manager* for Business	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR	per kWh per kyni per project/facility per project/facility per control per device per device per device	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS Vealuation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy The Energy Duke Energy The Energy The Energy The Energy Duke Energy
SBES HVAC AC SBES HVAC AC SBES Lighting B7BG SBES Lighting B7BG SBES Lighting Duslighting SBES Lighting Duslighting SBES Lighting Duslighting SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 30% DR SBDR Switch 50% DR SBDR Switch 50% DR SBDR Thermotata 50% DR SBDR Thermotata 50% DR SBDR Thermotata 50% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0002664 0.0001142 1.00 0.10 2.25 3.83 6.08 2.01	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Sustom 11 Power Share* 1 Power Manager* for Business	SSBDIR SSBEDR SSBEDR SSBEDR SSBEDR SSBEDR	per kWh per f while losses per control per device per device per device per device per device	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Mavigant Consulting) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy TecMarket Works TecMarket Works Duke Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting Duskrobawn SBES OccSensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 30% DR SBDR Switch 50% DR SBDR Switch 50% DR SBDR Switch 50% DR SBDR Thermostat 30% DR SBDR Thermostat 50% DR SBDR Thermostat 50% DR SBDR Thermostat 50% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1399.50	9999.00 9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0002664 0.0001142 0.16 1.00 0.10 2.25 3.83 6.08 2.01 3.58 5.83	999.00 0.0001142 0.0002664 0.000283 0.0002664 0.0001142 0.16	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Manager* for Business	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR	per kWh per kopin per kWh per project/facility per for device per device per device per device per device per device per device	Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy TecMarket Works TecMarket Works Duke Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES Occisionors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davight Sensor SBDR Switch 50% DR SBDR Switch 50% DR SBDR Switch 50% DR SBDR Thermostat 50% DR	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 0.0001142 0.0002664 0.0002664 0.0001142 0.16 0.10	999.00 0.0001142 0.0002664 0.000012664 0.0001142 0.16 1.00 0.10 2.25 3.83 6.08 2.01 3.58 5.83 9999.00 114.16 0.01	9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.001142 0.16 0.10	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Lighting 1 Power Manager* for Business 1 Outstom 8 Power Manager* for Business 10 Custom	SSBDIR SSBEDIR SSBEEDR SBEEDR	per kWh per project/facility per fwr net of fine losses per control per device	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS Vealuation Duke Energy Ohio EMMS Vealuation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting DusktoDawn SBES Cockensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 30% DR SBDR Switch 50% DR SBDR Switch 57% DR SBDR Thermostat 30% DR SBDR Thermostat 30% DR SBDR Thermostat 57% DR SBDR Thermostat 75% DR SBDR Thermostat 15% DR SB	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 0.0001142 0.0002664 0.000283 0.0002664 0.0001142 0.16 0.10	999.00 0.9999.00 0.0001142 0.000264 0.0000000 0.106 1.00 0.10 2.25 3.83 6.08 2.01 3.58 5.83 9999.00 114.16 0.01 0.04	9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16 0.10	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Manager* for Business 10 Custom 5 Process Equipment 10 Food Service Products	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NEPSC PVMSHR NRLTG SBEEDR	per kWh per ber kWh per project/facility per for the losses per control per device	Non-Residential Non-Residential	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy TecMarket Works TecMarket Works TecMarket Works Duke Energy Morgan Marketing Partners/Franklin Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Bowlighting SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES OctSensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davlight Sensor SBDR Switch 30% DR SBDR Switch 50% DR SBDR Switch 50% DR SBDR Switch 50% DR SBDR Thermotata 50% DR SBDR The	1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	9999.00 0.0001142 0.0002664 0.000283 0.0002664 0.001142 0.16 0.10	9999.00 0.0001142 0.0002664 0.0000000 0.0002164 0.0001142 0.16 1.00 0.10 2.25 3.83 6.08 2.01 3.58 5.83 9999.00 114.16 0.01 0.04	9999.00 0.0001142 0.0002664 0.0002664 0.0002664 0.001142 0.16 0.10	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Manager For Business 10 Custom 5 Process Equipment 10 Food Service Products 12 Lighting	SSBDIR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR NRPSC NRFS NRLTG	per kWh per device per fer device	Non-Residential Non-Re	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ofto EMMS Veraluation Duke Energy One EMMS Veraluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting DusktoDawn SBES Docksensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 30% DR SBDR Switch 50% DR SBDR Switch 50% DR SBDR Switch 575% DR SBDR Thermostat 20% DR SBDR Thermostat 50% DR SBDR Thermostat 75% DR SBDR Thermostat 75% DR SBDR Thermostat ES SD Custom Rebate Barrel Wraps (inj Mold Extruders) kW per ton Beverage Reach-in Controller BONUS High Bay 6L 15 HO (2 fixtures) retrofft repic 1000W HID BONUS High Bay 6L 15 HO (2 fixtures) retrofft repic 1000W HID BONUS High Bay 8L 42 WC FC1 replacing 400W HID (retrofit)	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16 0.10	9999.00 9099.00 0.0001142 0.0002664 0.0000100 0.0002664 0.000116 1.00 0.10 0.10 0.10 0.10 1.00 0.11 0.10 1.11 0.00 1.11 0.00 1.11 0.00 1.11 0.00 1.11 0.00 1.11 0.00 0	9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.0001142 0.16 0.10	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Manager* for Business 2 Power Manager* for Business 1 Custom 5 Process Equipment 10 Food Service Products 12 Lighting 12 Lighting	SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR SSBDIR NRPRSC PVMSHR NRLTG SBEEDR	per kWh per per device per fer Sturce (ballast + bulbs) per ST ST BH & '8 kTutures (ballasts + bulbs)	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME Vevaluation Duke Energy Ohio EMME Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Engineering Estimates Engineering Estimates Engineering Estimates Engineering Estimates	Duke Energy Tex-Market Works Tex-Market Works Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 87FG SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES OCSEMBORY SBES OCSEMB	1000 100 100 100 100 100 100 100 1399.50 381.00 872.00 1000000.00 672.00 1591.09 377.01 2191.03	9999.00 0.0001142 0.0002664 0.0002664 0.000148 0.16 0.10	9999.00 0.0001142 0.0002664 0.0000166 0.0001162 0.10 0.10 0.10 0.225 3.83 6.08 2.01 3.58 5.83 9999.00 114.16 0.01 0.01 0.02 0.05 0.05 0.05 0.05 0.05 0.05 0.05	9999.00 0.0001142 0.0002654 0.0002654 0.0002656 0.0001142 0.16 0.10 9999.00 114.16 0.01 0.04 0.32 0.08	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 16 Customs Energy Saver 17 Dever Share* 18 Lighting 18 Power Manager* for Business 18 Power Manager* for Business 19 Power Manager* for Business 10 Custom 10 Food Service Products 12 Lighting 12 Lighting 13 Lighting	SSBOR SSBEDR SSB	per kWh	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on of Limbars from Navigant Consulting) Original Estimates (Based on of Limbars from Navigant Consulting) Original Estimates (Based on of Limbars from Navigant Consulting) Original Estimates Engineering Estimates Engineering Estimates Engineering Estimates Engineering Estimates Engineering Estimates	Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting Daylighting SBES Lighting Dusktobawn SBES Cockensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBBR Switch 30% DR SBBR Switch 50% DR SBBR Switch 50% DR SBBR Switch 55% DR SBBR Thermostat 30% DR SBBR Thermostat 50% DR SBBR Thermostat 50% DR SBBR Thermostat 50% DR SBBR Thermostat 50% DR SBDR T	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002640 0.0002183 0.0002664 0.0001142 0.16 0.10	9999.00 9999.00 0.0001142 0.0002564 0.0002564 0.016 1.00 0.16 2.25 3.83 6.08 2.01 3.58 3.58 3.58 3.58 3.58 3.58 3.58 3.58	9999.00 0.0001142 0.0002664 0.0002664 0.0002666 0.10 0.10 9999.00 114.16 0.01 0.04 0.32 0.08 0.45 0.08	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custorn 1 Power Manager* for Business 10 Custom 5 Process Equipment 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting	SSBOR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR NRCSSO NRPROC NRFS NRLTG NRLTG NRLTG NRLTG	per kWh per bright per kWh per bright per device per 1,000,000 kWh kW per ton per 2. T8 HB d' 8L fixtures (ballasts + bulls) per 2. T8 HB d' 8L fixtures (ballasts + bulls) per fixture (ballast + bulls)	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME Vevaluation Duke Energy Ohio EMME Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting)	Duke Energy TecMarket Works TecMarket Works Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC HP SBES Lighting 87FG SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES OCSEMBER SBES OCSEMB	1000 100 100 100 100 100 100 100 1399.50 381.00 872.00 1000000.00 672.00 672.00 377.01 2191.03 373.00 399.60	9999.00 9999.00 0.0001142 0.0002664 0.000283 0.0001142 0.116 0.110 9999.00 114.16 0.01 0.14 0.14 0.12 0.15	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0001142 0.0161 0.0002664 0.0000142 0.0161 0.000142 0.0161 0.0001142 0.0161 0.0001 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.000 0.	9999.00 0.0001142 0.0002654 0.0002654 0.0002656 0.1001142 0.16 0.10 9999.00 114.16 0.01 0.04 0.05 0.08 0.45 0.08	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Lighting 1 Power Manager* for Business 2 Power Manager* for Business 3 Power Manager* for Business 4 Power Manager* for Business 5 Power Manager* for Business 6 Power Manager* for Business 6 Power Manager* for Business 8 Power Manager* for Business 8 Power Manager* for Business 9 Power Manager* for Business 1 Power Manager* for Business 1 Power Manager* for Business 1 Power Manager* for Business 2 Power Manager* for Business 3 Power Manager* for Business 4 Power Manager* for	SSBOR SSBEDR SSEEDR SSE	per kWh	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates Engineering Estimates	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting boxidobawn SBES Lighting boxidobawn SBES Scripting Duxidobawn SBES Scripting Duxidobawn SBES Scripting Duxidobawn SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBBR Switch 30% DR SBBR Switch 50% DR SBBR Switch 50% DR SBBR Switch 55% DR SBBR Thermostat 30% DR SBBR Thermostat 50% DR SBDR Th	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002640 0.0002183 0.0002664 0.0001142 0.16 0.10	9999.00 9999.00 0.0001142 0.0002564 0.0002564 0.016 1.00 0.16 2.25 3.83 6.08 2.01 3.58 3.58 3.58 3.58 3.58 3.58 3.58 3.58	9999.00 0.0001142 0.0002664 0.0002664 0.0002666 0.10 0.10 9999.00 114.16 0.01 0.04 0.32 0.08 0.45 0.08	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custorn 1 Power Manager* for Business 10 Custom 5 Process Equipment 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting	SSBOR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR NRCSSO NRPROC NRFS NRLTG NRLTG NRLTG NRLTG	per kWh per bright per kWh per bright per device per 1,000,000 kWh kW per ton per 2. T8 HB d' 8L fixtures (ballasts + bulls) per 2. T8 HB d' 8L fixtures (ballasts + bulls) per fixture (ballast + bulls)	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME Vevaluation Duke Energy Ohio EMME Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on EMME Vevaluation report) Engineering Estimates	Duke Energy The Energy Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES IN SERVER SBES Lighting 8760 SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES CocSensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davight Sensor SBDES witch 30% DR SBDES SWEST SERVER SBDES SWEST SERVER SBDES SWEST SERVER SBDES SWEST SBDES SBDES SWEST SBDES SBDES SWEST SBDES	1000 100 100 100 100 100 100 100 1399.50 381.00 872.00 1000000.00 672.00 672.00 377.01 2191.03 373.00 399.60 422.78 212.00	9999.00 9999.00 0.0001142 0.0002664 0.000283 0.0002142 0.16 0.10 0.10 9999.00 114.16 0.01 0.11 0.14 0.42 0.10 0.58 0.10 0.13 0.11 0.12	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0001142 0.0161 1.00 0.10 1.00 0.10 1.00 0.10 0.1	9999.00 0.0001142 0.0002654 0.0002654 0.0002656 0.0001142 0.16 0.10 9999.00 114.16 0.01 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Custom 1 Power Share* 1 Power Manager* for Business 2 Power Manager* for Business 3 Power Manager* for Business 3 Power Manager* for Business 4 Power Manager* for Business 5 Power Manager* for Business 6	SSBOR SSBEDR SSEEDR SS	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Dhie DM&V Evaluation Duke Energy Dhie DM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates Engineering Estimates	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting B780 SBES Lighting B780 SBES Lighting Davlighting SBES Lighting Davlighting SBES Lighting Davlighting SBES Lighting Davlighting SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davlight Sensor SBBR Switch 50% DR SBBR Thermostat	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002684 0.0002283 0.0002664 0.0001142 0.10 9999.00 114.16 0.11 0.14 0.42 0.10 0.58 0.10 0.13	9999.00 9999.00 0.0001142 0.0002564 0.0002564 0.0006000 0.16 1.00 0.10 2.25 3.83 6.08 2.01 3.58 5.83 9999.00 114.16 0.01 0.04 0.32 0.08 0.45 0.08 0.10	9999.00 0.001142 0.002564 0.0002564 0.0002666 0.10 0.10 9999.00 114.16 0.01 0.04 0.32 0.08 0.45 0.08 0.10 0.09	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custorn 1 Power Manager* for Business 2 Ugstring 2 Ugstring 2 Ugstring 2 Ugstring 2 Ugstring 2 Ugstring 1 Ugstring	SSBDIR NRPRSC PVMSSHR NRLTG SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR NRCSSD NRPROC NRFS NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG NRLTG	per kWh per broin per device per fative per 1,000,000 kWh kW per ton per 2 T8 HB d' 8L fixtures (ballasts + bulls) per 2 T8 HB d' 8L fixtures (ballasts + bulls) per fixture (ballast + bulls) per light tube per light tube per light tube	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME Vevaluation Duke Energy Ohio EMME Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on EMME Vevaluation report) Engineering Estimates	Duke Energy The Energy Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES IN SERVER SBES Lighting 8760 SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES CocSensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davight Sensor SBDES witch 30% DR SBDES SWEST SERVER SBDES SWEST SERVER SBDES SWEST SERVER SBDES SWEST SBDES SBDES SWEST SBDES SBDES SWEST SBDES	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002564 0.0002564 0.0001142 0.116 0.10 9999.00 114.16 0.01 0.14 0.42 0.10 0.58 0.10 0.13 0.11 0.12	9999.00 9999.00 0.0001142 0.0001044 0.0000000 0.0002664 0.0000000 0.100 0.10 0.225 3.83 6.008 2.01 3.58 5.83 9999.00 1114.16 0.01 0.04 0.22 0.08 0.10 0.04 0.02 0.45 0.08 0.10	9999.00 0.0001142 0.0002664 0.0002283 0.0002664 0.001142 0.10 0.10 9999.00 114.16 0.01 0.04 0.32 0.08 0.45 0.08 0.10 0.09 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custorn 1 Power Business 1 Power Manager* for Business 2 Power Manager* for Business 2 Ughting 2 Ughting 2 Ughting 2 Ughting 1 HVAC	SSBDIR NRPRSC PWRSHR NRLTG SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR NRESD NRPROC NRFS NRLTG NRLT	per kWh per bolia per device per fatige per device per fatige per device per 12 H 8 d 8 L fixtures (ballasts + bulbs) per 12 T 8 H 8 d 8 L fixtures (ballasts + bulbs) per fixture (ballast + bulb) per light tube per fixture (ballast + bulb) per light tube per fixture per unit	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME Vevaluation Duke Energy Ohio EMME Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates Engineering Estimates	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES OxCoheron SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBDR Switch 30% DR SBDR Thermostat 50% DR SBDR Thermostat 50	1000 100 100 100 100 100 100 100 1399.50 381.00 872.00 1000000.00 672.00 672.00 377.01 2191.03 373.00 422.78 212.00 1290.00 265.00	9999.00 9999.00 0.0001142 0.0002664 0.000283 0.0002142 0.16 0.10 0.10 0.10 0.10 0.10 0.11 0.14 0.12 0.10 0.13 0.11 0.12 0.11 0.12 0.13 0.11 0.12 0.13 0.11 0.12 0.13	9999.00 9999.00 0.0001142 0.0002664 0.0000000 0.0001142 0.0161 0.0002664 0.0000142 0.0161 0.000142 0.0161 0.000142 0.0161 0.000142 0.0161 0.000142 0.0161 0.0001442 0.0001442 0.0001444 0.000144 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0001444 0.0000444 0.000	9999.00 0.0001142 0.0002654 0.0002654 0.0002656 0.0001142 0.16 0.10 9999.00 114.16 0.01 0.04 0.05 0.08 0.45 0.08 0.10 0.9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Energy Saver 14 Power Share* 15 Power Manager* for Business 16 Power Manager* for Business 17 Power Manager* for Business 18 Power Manager* for Business 19 Power Manager* for Business 19 Power Manager* for Business 10 Custom 10 Food Service Products 10 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 HVAC	SSBOR SSEEDR SSEE	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohle EM&V Evaluation Duke Energy Ohle EM&V Evaluation Duke Energy Ohle EM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates Engineering Estimates	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting B780 SBES Lighting B780 SBES Lighting Dusktobawn SBES Cucsensors SBES Suffgreation Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBOR Switch 50% DR SBOR Thermostat 30% DR SBOR Thermostat 50% DR SBOR Thermo	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.000142 0.000264 0.000264 0.000264 0.000144 0.000	9999.00 9999.00 0.0001142 0.000264 0.0000060 0.0002644 0.0000100 0.10 0.10 0.10 0.225 3.83 6.08 2.01 3.58 5.83 9999.00 114.16 0.04 0.04 0.04 0.05 0.08 0.016 0.09 0.22 0.10 0.09 0.22 0.14 0.28 0.16 0.05	9999.00 0.0001142 0.0002664 0.0002664 0.0002183 0.0001167 0.16 0.10 9999.00 114.16 0.01 0.04 0.32 0.08 0.10 0.09 9999.00 9999.00 9999.00 0.05	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Dower Share* 1 Power Manager* for Business 1 Power Ma	SSBDIR SSBEDR SBEEDR SB	per kWh per kyn kyn per kyn pe	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME Vealuation Duke Energy Ohio EMME Vealuation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Mayigant Consulting) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates from Nav	Duke Energy The Energy Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 87F0 SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES CacSensors SBES ACSENSORS SBES ACCENSORS SBES AC	1000 1000 1000 1000 1000 1000 1399.50 381.00 872.00 1000000000 500.00 672.00 1591.09 377.01 2191.03 373.00 422.78 212.00 129.00 129.00 150.00 150.00 263.00 150.00 277.30 460.70	9999.00 9999.00 0.000142 0.0002664 0.000283 0.0002640 0.0002640 0.10 0.10 0.10 0.10 0.11 0.14 0.10 0.13 0.11 0.12 0.14 0.10 0.13 0.11 0.12 0.14 0.10 0.11 0.12 0.14 0.10 0.11 0.11 0.12 0.14 0.10 0.11 0.11 0.12 0.14 0.15 0.16 0.16 0.17 0.16 0.16 0.16 0.17 0.18	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.01142 0.015 1.00 0.10 0.10 0.10 0.10 0.10 0.1	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.001142 0.10 0.10 9999.00 114.16 0.01 0.04 0.05 0.09 9999.00 9999.00 9999.00 9999.00 0.05 0.09	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Custom 14 Power Manager* for Business 14 Power Manager* for Business 15 Power Manager* for Business 16 Power Manager* for Business 17 Power Manager* for Business 18 Power Manager* for Business 19 Power Manager* for Business 19 Power Manager* for Business 10 Custom 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting	SSBDIR SSBEDR SBEEDR SB	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Othe EM&V Evaluation Duke Energy Othe EM&V Evaluation Duke Energy Othe EM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estim	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting B780 SBES Lighting B780 SBES Lighting DusktoDawn SBES CutSensors SBES Actifyeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBBO Switch 50% DR SBBOR Thermostat 50% DR SBDR Thermostat 50% DR S	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.000142 0.000264 0.000264 0.000264 0.000144 0.000	9999.00 9999.00 0.0001142 0.0002644 0.0000264 0.0000264 0.000016 0.10 0.10 0.225 3.83 6.08 2.01 3.58 5.83 9999.00 114.16 0.01 0.04 0.04 0.04 0.04 0.05 0.08 0.16 0.08 0.16 0.08 0.16 0.09 0.22 0.14 0.28 0.16 0.05 0.09 0.03	9999.00 0.0001142 0.0002664 0.0002664 0.0002183 0.000166 0.10 9999.00 114.16 0.01 0.01 0.04 0.32 0.08 0.10 0.09 9999.00 9999.00 9999.00 0.05 0.09 0.03 0.078	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Dower Share* 18 Lighting 19 Power Manager* for Business 10 Custom 10 Food Service Products 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 HVAC 15 HVAC 15 HVAC 12 Lighting 2 Lighting 3 Lighting 4 Lighting 4 Lighting 5 Lighting 5 Lighting 6 Lighting 7 Lighting 8 Lighting 9 L	SSBDIR SSBEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR SBEEDR NRESSD NRPROC NRFS NRLTG	per kWh per per kWh per kWh per per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS Vealuation Duke Energy Ohio EMMS Vealuation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates from Nav	Duke Energy The Energy Duke En
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES CacSensons SBES ACSENSONS SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davight Sensor SBDR Switch 30% DR SBDR Switch 30% DR SBDR Switch 30% DR SBDR Switch 30% DR SBDR Switch 75% DR SBDR Thermostat 30% DR SBDR Thermostat 50% DR	1,000 1,000	9999.00 9999.00 0.000142 0.0002664 0.000283 0.0002640 0.00142 0.16 0.10 0.10 0.14 0.10 0.14 0.10 0.13 0.11 0.22 0.14 0.10 0.13 0.11 0.22 0.14 0.10 0.13 0.11 0.22 0.14 0.10 0.10 0.11 0.11 0.22 0.14 0.10 0.10 0.11 0.12 0.16 0.06	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01040 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.02 0.03 0.045 0.05	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.0001142 0.110 0.10 9999.00 114.16 0.01 0.04 0.05 0.09 9999.00 9999.00 9999.00 9999.00 0.05 0.09 0.03 0.078 0.03	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Energy Saver 14 Dower Share* 15 Power Manage* for Business 16 Power Manage* for Business 17 Power Manage* for Business 18 Power Manage* for Business 19 Power Manage* for Business 19 Power Manage* for Business 10 Custom 10 Food Service Products 10 Custom 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 12 Lighting 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 15 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 10 Lighting 10 Lighting 10 Lighting 10 Lighting 10 Lighting 11 Lighting 12 Lighting	SSBOR SSEDR SSEEDR SSE	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Othe EM&V Evaluation Duke Energy Othe EM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates Engineering E	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting B780 SBES Lighting B780 SBES Lighting DusktoDawn SBES Lighting DusktoDawn SBES CucSensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBBO R Switch 50% DR SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Thermostat 50% DR SBDR Thermostat 5	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.0002664 0.0002640 0.0002142 0.0001442 0.10 0.16 0.10 0.11 0.14 0.16 0.10 0.11 0.11 0.12 0.11 0.22 0.14 0.28 0.10 0.12 0.16 0.10 0.11 0.22 0.14 0.22 0.14 0.22 0.14 0.23	9999.00 9999.00 0.0001142 0.000264 0.0000000 0.0001464 0.00001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.000 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.000 114.16 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.003 0.001	9999.00 0.0001142 0.0002664 0.0002664 0.0002166 0.101 0.10 9999.00 114.16 0.01 0.01 0.04 0.32 0.08 0.10 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 0.078 0.03	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Dower Share* 18 Lighting 19 Power Manager* for Business 10 Custom 10 Food Service Products 10 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 HVAC 15 HVAC 15 HVAC 12 Lighting 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 10 Lighting 11 Lighting 12 Lighting 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 11 Lighting 11 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 18 Lighting 18 Lighting 18 Lighting 18 Lightin	SSBDIR SSBEDR SBEEDR SB	per kWh per per kWh per kWh per per kWh per kWh per per device pe	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMME Vealuation Duke Energy Ohio EMME Vealuation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates fr	Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES Lighting Davighting SBES OxCommon SBES ACCESSORY	1,000 1,000	9999.00 9999.00 0.0001142 0.0002664 0.000283 0.0002640 0.00142 0.106 0.10 0.11 0.11 0.12 0.14 0.15 0.15 0.16 0.11 0.12 0.16 0.10 0.11 0.12 0.14 0.16 0.10 0.10 0.11 0.11 0.12 0.14 0.16 0.16 0.10 0.10 0.10 0.10 0.10 0.10	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01442 0.014416 0.00000000000000000000000000000000000	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.001142 0.110 0.10 9999.00 114.16 0.01 0.04 0.05 0.09999.00 9999.00 9999.00 0.05 0.078 0.03 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Energy Saver 14 Dover Share's 14 Dover Share's 15 Power Manager's for Business 16 Power Manager's for Business 17 Power Manager's for Business 18 Power Manager's for Business 19 Power Manager's for Business 19 Power Manager's for Business 10 Custom 10 Fower Manager's for Business 10 Custom 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 Lighting 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 15 Lighting 15 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 10 Lighting 11 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Food Service Products 15 Food Service Products 15 Food Service Products 15 Food Service Products 15 Food Service Products	SSBOR SSBED R SBEEDR SB	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Othe EM&V Evaluation Duke Energy Othe EM&V Evaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates Engineering Es	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting B780 SBES Lighting B780 SBES Lighting DusktoDawn SBES Lighting DusktoDawn SBES Lighting DusktoDawn SBES CotSensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Daylight Sensor SBOR Switch 50% DR SBOR Thermotata 50% DR SBOR T	1,000 1,000	9999.00 9999.00 0.0001142 0.0002646 0.0002640 0.0002142 0.0001442 0.10 0.16 0.10 0.10 0.11 0.14 0.14 0.15 0.10 0.11 0.11 0.12 0.14 0.18 0.10 0.11 0.12 0.10 0.10 0.11 0.12 0.10 0.10	9999.00 9999.00 0.0001142 0.000264 0.0000000 0.0001462 0.00001462 0.0001462	9999.00 9999.00 0.0001142 0.0002664 0.0002664 0.0001142 0.116 0.10 9999.00 114.16 0.01 0.04 0.32 0.08 0.45 0.08 0.10 0.09 9999.00 9999.00 0.05 0.09 0.078 0.03 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Small Business 14 Power Manager* for Business 15 Power Manager* for Business 16 Power Manager* for Business 17 Power Manager* for Business 18 Power Manager* for Business 19 Power Manager* for Business 10 Custom 10 Food Service Products 10 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 Lighting 12 Lighting 12 Lighting 12 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 11 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lond Service Products 15 Food Service Products	SSBDIR SSBEDR SBEEDR SB	per kWh per project/facility per device per 13 T8 H8 d' 8L fixtures (ballasts + bulbs) per fixture (ballast + bulb) per fixture per light tube per fixture per unit per unit per unit per unit per unit per lamp per lamp per lamp per lamp per lamp per lamp per fixture (ballast + bulb) per bulb (df) per bulb (df) per bulb (df)	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS Vevaluation Duke Energy Ohio EMMS Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates	Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davighting SBES Chackensons SBES ACCESSOR SBES SWITCH 50% DR SBDR SWITCH 50% DR SBDR SWITCH 50% DR SBDR THERMOSTAT 50%	1000 1000 1000 1000 1000 1000 1399.50 381.00 872.00 1000000.00 672.00 377.01 2191.03 379.50 422.78 212.00 1290.00 150.00 263.00 150.00 150.00 277.30 460.70 142.40 386.00 98.00 1551.80	9999.00 9999.00 0.0001142 0.0002664 0.000283 0.0001642 0.0016 0.10 0.11 0.11 0.12 0.12 0.14 0.22 0.15 0.10 0.11 0.12 0.14 0.16 0.10 0.10 0.11 0.11 0.12 0.14 0.16 0.06 0.17 0.10 0.10 0.10 0.10 0.10 0.10 0.10	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.01142 0.0144 0.000000000 0.000000000000000000	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.0001142 0.110 0.10 9999.00 114.16 0.01 0.04 0.05 0.08 0.09 9999.00 9999.00 9999.00 0.05 0.078 0.03 9999.00 9999.00 9999.00 9999.00 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Energy Saver 14 Dever Share* 18 Lighting 18 Dever Manage** for Business 18 Dever Manage** for Business 18 Dever Manage** for Business 19 Dever Manage** for Business 19 Dever Manage** for Business 10 Dever Manage** for Business 10 Dever Manage** for Business 10 Custom 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 10 Lighting 11 Lighting 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 10 Lighting 11 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Food Service Products 15 Food Service Products	SSBDIR SSBEDIR SBEEDR S	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimat	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Bovlighting SBES Lighting Davighting SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davight Sensor SBBO Remote Job Wight S	1,000 1,000	9999.00 9999.00 0.0001142 0.0002646 0.0002646 0.0002783 0.0002646 0.0001142 0.16 0.10 0.11 0.14 0.14 0.15 0.10 0.11 0.14 0.12 0.10 0.15 0.10 0.11 0.11 0.12 0.10 0.11 0.12 0.10 0.10	9999.00 9999.00 0.0001142 0.000264 0.000264 0.0000000 0.000264 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001144 0.00001144 0.0000144 0.00001144 0.00001144 0.00001144 0.00001144 0.00001144 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.00	9999.00 0.0001142 0.0002664 0.0002664 0.000166 0.10 9999.00 114.16 0.01 0.01 0.04 0.02 0.08 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 15 Small Business Energy Saver 15 Small Business Energy Saver 16 Description of Business 1 Power Manager* for Business	SSBDIR SSBEDR SBEEDR SB	per kWh per ber kWh per kWh per project/facility per project/facility per project/facility per device per 1 3 T8 H8 d' 81 (fixtures (ballasts + bulbs) per fixture (ballast + bulb) per fixture (ballast + bulb) per fixture per unit per unit per unit per unit per unit per lamp	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS Vevaluation Duke Energy Ohio EMMS Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates	Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davlighting SBES Lighting Davlighting SBES Lighting Davlighting SBES Lighting Davlighting SBES Carcismons SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davlight Sensor SBDR Swerth 30% DR SBDR Swerth 50% DR SBDR Swerth 50% DR SBDR Swerth 50% DR SBDR Swerth 50% DR SBDR Thermostat 30% DR SBDR Thermostat 30% DR SBDR Thermostat 50%	1,000 1,000	9999.00 9999.00 0.0001142 0.0002664 0.0002664 0.0002664 0.0002664 0.000142 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.01142 0.01142 0.01500000000 0.00000000000000000000000	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.0001142 0.110 0.10 9999.00 114.16 0.01 0.04 0.05 0.08 0.09 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Custom 16 Dever Manager* for Business 17 Power Manager* for Business 18 Power Manager* for Business 18 Power Manager* for Business 19 Power Manager* for Business 19 Power Manager* for Business 10 Custom 10 Fower Manager* for Business 11 Power Manager* for Business 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 11 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Food Service Products 15 Food Service Products	SSBDIR SSBEDR SS	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimat	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davlighting SBES Cocksensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davlight Sensor SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Thermostat 50% DR SBBOR Thermostat 50% DR SBDR	1,000 1,000	9999.00 9999.00 0.0001142 0.000264 0.000264 0.0002142 0.16 0.10 0.11 0.14 0.16 0.10 0.11 0.14 0.12 0.16 0.10 0.11 0.14 0.12 0.10 0.15 0.10 0.11 0.11 0.14 0.12 0.10 0.10 0.11 0.11 0.12 0.10 0.10	9999.00 9999.00 0.0001142 0.000264 0.000264 0.0000000 0.000264 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001144 0.00001144 0.0000144 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.0	9999.00 0.0001142 0.0002664 0.0002664 0.0002664 0.0001142 0.16 0.10 9999.00 114.16 0.01 0.04 0.02 0.08 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 0.03 0.078 0.03 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Ughting 1 Power Manager* for Business 1 Power Manager* for Bu	SSBDIR SSBEDR SBEEDR SB	per kWh per by kwh per kWh per project/facility per role to fine losses per control per device per system syste	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Ohio EMMS Vevaluation Duke Energy Ohio EMMS Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates	Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davlighting SBES OxCessors SBES ACCESSORS SBES ACCESSOR	1,000 1,000	9999.00 9999.00 0.0001142 0.0002664 0.0002664 0.0002664 0.0002664 0.000142 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.01142 0.01142 0.01500000000 0.00000000000000000000000	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.0001142 0.110 0.10 9999.00 114.16 0.01 0.04 0.05 0.08 0.09 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Custom 16 Dever Manager* for Business 17 Power Manager* for Business 18 Power Manager* for Business 18 Power Manager* for Business 19 Power Manager* for Business 19 Power Manager* for Business 10 Custom 10 Fower Manager* for Business 11 Power Manager* for Business 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 Lighting 15 Lighting 16 Lighting 17 Lighting 18 Lighting 18 Lighting 19 Lighting 19 Lighting 19 Lighting 19 Lighting 10 Lighting 11 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Food Service Products 15 Food Service Products	SSBDIR SSBEDR SBEEDR SB	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimat	Duke Energy Duke E
SBES HVAC AC SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davlighting SBES Cocksensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davlight Sensor SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Switch 50% DR SBBOR Thermostat 50% DR SBBOR Thermostat 50% DR SBDR	1,000 1,000	9999.00 9999.00 0.0001142 0.0002664 0.000283 0.0001462 0.100 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.111 0.110 0.110 0.110 0.111 0.110	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.00164 0.000142 0.00164 0.000142 0.00164 0.000142 0.00164 0.000142 0.00164 0.000142 0.00164 0.00000000000000000000000000000000000	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.0001142 0.110 0.10 9999.00 114.16 0.01 0.04 0.05 0.08 0.09999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Custom 16 Dever Manage* for Business 17 Power Manage** for Business 17 Power Manage** for Business 18 Power Manage** for Business 18 Power Manage** for Business 19 Power Manage** for Business 19 Power Manage** for Business 10 Custom 10 Food Service Products 10 Lighting 12 Lighting 12 Lighting 12 Lighting 13 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 FVAC 15 FVAC 15 FOOD Service Products 12 Food Service Products 14 Food Service Products 15 Food Service Products 16 Food Service Products 17 Food Service Products 17 Food Service Products 18 Food Service Products 18 Food Service Products 18 Food Service Products 18 Food Servi	SSBDIR SSBEDIR SBEEDR S	per kWh per kW	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimat	Duke Energy Morgan Marketing Partners/Franklin Energy
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davlighting SBES CotSensors SBES OctSensors SBES Refrigeration Custom Rebate PowerShare Remote-Mounted Davlight Sensor SBBR Switch 50% DR SBBR Switch 50% DR SBBR Switch 50% DR SBBR Switch 50% DR SBBR Thermostat 50% DR SBBR Ther	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	9999.00 9999.00 0.0001142 0.000264 0.000264 0.0002142 0.16 0.10 0.11 0.14 0.10 0.14 0.10 0.11 0.14 0.12 0.10 0.11 0.11 0.12 0.10 0.15 0.10 0.11 0.11 0.12 0.10 0.13 0.13 0.13 0.13 0.13 0.13 0.13	9999.00 9999.00 0.0001142 0.000264 0.000264 0.0000000 0.000264 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001142 0.0001144 0.00001144 0.0000144 0.00001144 0.00001144 0.00001144 0.00001144 0.00001144 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.000044 0.00	9999.00 0.0001142 0.0002664 0.0002664 0.0002664 0.0001142 0.16 0.10 9999.00 114.16 0.01 0.01 0.04 0.32 0.08 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.09 9999.00 0.05 0.03 0.078 0.03 0.078	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Custom 1 Power Share* 8 Ughting 1 Power Manager* for Business 1 Power Manager* for Bu	SSBDIR SSBEDR SS	per kWh per by kWh per project/facility per rown per kWh per per kWh per per kWh per project/facility per device per	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Duke Energy Othe EMMS Vevaluation Duke Energy Othe EMMS Vevaluation Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimates	Duke Energy Morgan Marketing Partners/Franklin Energy Morgan Marketing P
SBES HVAC AC SBES HVAC AC SBES Lighting 8760 SBES Lighting Davlighting SBES Chackersons SBES Refrigeration Custom Rebate PowerShare Bennote-Mounted Davlight Sensor SBDR Swerth 30% DR SBDR Swerth 50% DR SBDR Swerth 50% DR SBDR Swerth 50% DR SBDR Swerth 50% DR SBDR Thermostat 20% DR SBDR Thermostat 20% DR SBDR Thermostat 20% DR SBDR Thermostat 50% DR SBDR Thermostat 75% DR SBDR Thermostat 50% DR S	1000 1000 1000 1000 1000 1000 1399.50 381.00 872.00 1000000.00 672.00 399.60 422.78 212.00 1290.00 1591.09 377.01 2191.03 379.60 422.78 360.00 150.00 581.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 1757.00 1869.00 1757.00 1869.00 1789.00 1	9999.00 9999.00 0.0001142 0.0002664 0.0002664 0.0002664 0.0002664 0.000142 0.16 0.10 0.16 0.10 0.11 0.12 0.16 0.10 0.11 0.12 0.16 0.10 0.10 0.11 0.11 0.12 0.10 0.10 0.10	9999.00 9999.00 0.0001142 0.0002664 0.00000000 0.0001142 0.01142 0.01142 0.01500000000 0.00000000000000000000000	9999.00 0.001142 0.0002664 0.0002683 0.0002664 0.0001142 0.110 0.10 9999.00 114.16 0.01 0.04 0.05 0.09 0.09 9999.00 9999.00 9999.00 9999.00 0.05 0.09 0.03 0.078 0.03 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 0.05 0.078 0.03 0.078 0.03 0.078 0.03 0.078 0.03 0.078 0.03 0.078 0.03 0.078 0.03 0.078 0.03	15 Small Business Energy Saver 15 Small Business Energy Saver 10 Small Business Energy Saver 11 Small Business Energy Saver 12 Small Business Energy Saver 13 Small Business Energy Saver 14 Custom 16 Dever Manage** for Business 17 Power Manage** for Business 17 Power Manage** for Business 18 Power Manage** for Business 18 Power Manage** for Business 19 Power Manage** for Business 19 Power Manage** for Business 10 Custom 10 Food Service Products 12 Lighting 12 Lighting 12 Lighting 12 Lighting 13 Lighting 14 Lighting 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 HVAC 15 FVAC 15 FVAC 15 FOOD Service Products 15 Food Service Products 15 Food Service Products 17 Food Service Products 18 Food Servi	SSBDIR SSBEDIR SSBEEDR SBEEDR	per kWh kW per kwh kW per kwh	Non-Residential Non-Residentia	Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Lime Energy and SmartWatt) Original Estimates (Based on estimates from Navigant Consulting) Original Estimates (Based on estimat	Duke Energy Morgan Marketing Partners/Franklin Energy Morgan Marketing Partner

NRIT per pump

Non-Residential Engineering Estimates

8602.04 0.98 0.00 0.00

10 Information Technology

VFDs on chilled water pumps 7.5HP w Economizer

ENERGY STAR Commercial Solid Door Freezers 30 to 50ft3 - var	1728.00	0.20	0.17	0.17	12 Food Service Products	NRFS	per unit	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
ENERGY STAR Commercial Solid Door Freezers less than 15ft3 - var	595.00	0.07	0.06	0.06	12 Food Service Products	NRFS	per unit	Non-Residential		Morgan Marketing Partners/Franklin Energy
ENERGY STAR Commercial Solid Door Freezers more than 50ft3 - var	3757.00	0.43	0.36	0.36	12 Food Service Products	NRES	per unit	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
ENERGY STAR Commercial Solid Door Refrigerators 15 to 30 ft3 - var	470.00	0.05	0.05	0.05	12 Food Service Products	NRES	per unit	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
ENERGY STAR Commercial Solid Door Refrigerators 30 to 50ft3 - var	790.00	0.09	0.08	0.08	12 Food Service Products	NRES	per unit	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
ENERGY STAR Commercial Solid Door Refrigerators less than 15ft3 - var	270.00	0.03	0.03	0.03	12 Food Service Products	NRFS	per unit	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
ENERGY STAR Commercial Solid Door Refrigerators more than 50ft3 - var	1133.00	0.13	0.11	0.11	12 Food Service Products	NRFS	per unit	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Energy Star Room AC over 14,000 Btu hr	212.00	0.22	0.22	9999.00	15 HVAC	NRHVAC	per unit	Non-Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Energy Star Room AC under 14,000 Btu hr	129.00	0.14	0.22	9999.00	15 HVAC	NRHVAC	per unit per unit	Non-Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Engineered Nozzles - COMPRESS AIR	2880.00	1.44	1.08	1.08	5 Process Equipment	NRPROC	per nozzle	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Griddles	1637.00	0.37	0.31	0.31	12 Food Service Products	NRFS	per griddle	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Guest Room Energy Management, Gas Heating	194.46	0.21	0.11	9999.00	8 HVAC	NRHVAC	per unit	Non-Residential		Morgan Marketing Partners/Franklin Energy
High Efficiency Pumps 10HP	2014.14	0.55	0.43	0.43	15 Pumps and Drives	NRP&M	per pump	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
High Efficiency Pumps 2HP	402.83	0.11	0.09	0.09	15 Pumps and Drives	NRP&M	per pump	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
High Efficiency Pumps 3HP	604.24	0.16	0.13	0.13	15 Pumps and Drives	NRP&M	per pump	Non-Residential		Morgan Marketing Partners/Franklin Energy
Holding Cabinet Full Size Insulated	5256.00	0.96	0.81	0.81	12 Food Service Products	NRFS	per unit (cabinet)	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Holding Cabinet Half Size Insulated	1796.00	0.33	0.28	0.28	12 Food Service Products	NRFS	per unit (cabinet)	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Holding Cabinet Three Quarter Size Insulated	2825.00	0.52	0.43	0.43	12 Food Service Products	NRFS	per unit (cabinet)	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
LED Exit Signs Electronic Fixtures (Retrofit Only)	228.70	0.03	0.03	0.03	16 Lighting	NRLTG	per fixture	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Pellet Dryer Tanks & Ducts 3in dia per ft	99.00	0.02	0.02	0.02	5 Process Equipment	NRPROC	per ft	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Pellet Dryer Tanks & Ducts 4in dia per ft	149.00	0.03	0.02	0.02	5 Process Equipment	NRPROC	per ft	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Pellet Dryer Tanks & Ducts 5in dia per ft	198.00	0.04	0.03	0.03	5 Process Equipment	NRPROC	per ft	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Pellet Dryer Tanks & Ducts 6in dia per ft	248.00	0.05	0.04	0.04	5 Process Equipment	NRPROC	perft	Non-Residential		Morgan Marketing Partners/Franklin Energy
Pellet Dryer Tanks & Ducts 8in dia per ft	397.00	0.08	0.06	0.06	5 Process Equipment	NRPROC	per ft	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Pre Rinse Sprayers	1396.00	0.23	0.12	0.12	5 Food Service Products	NRES	per unit	Non-Residential		Morgan Marketing Partners/Franklin Energy
Snack Machine Controller	280.00	0.03	0.12	0.01	10 Food Service Products	NRFS	per controller	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Steamer 3 pan	11188.00	2.55	2.15	2.15	12 Food Service Products	NRFS	per controller per steam cooker	Non-Residential	Engineering Estimates Engineering Estimates	
						NRFS NRFS				Morgan Marketing Partners/Franklin Energy
Steamer_4 pan	12459.00	2.84	2.39	2.39	12 Food Service Products		per steam cooker	Non-Residential		Morgan Marketing Partners/Franklin Energy
Steamer_5 pan	13831.00	3.16	2.65	2.65	12 Food Service Products	NRFS NRFS	per steam cooker	Non-Residential		Morgan Marketing Partners/Franklin Energy
Steamer_6 pan	15170.00	3.46	2.91	2.91	12 Food Service Products	1410.5	per steam cooker	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Vending Equipment Controller	805.84	0.21	0.16	0.16	10 Food Service Products	NRFS	per vending equipment controller	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
VSD Air COMP replacing load no load COMP	501.00	0.12	0.12	0.12	15 Process Equipment	NRPROC	per HP	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
VSD Air COMP replacing variable displacement COMP	188.00	0.05	0.05	0.05	15 Process Equipment	NRPROC	per HP	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
AC 135,000 - 240,000 per ton	66.97	9999.00	0.08	9999.00	15 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
AC 240,000 - 760,000 per ton	68.35	9999.00	0.09	9999.00	15 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
AC 65,000 - 135,000 per ton	54.80	9999.00	0.07	9999.00	15 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
AC greater than 760,000 per ton	52.26	9999.00	0.07	9999.00	15 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
AC less than 65,000 1 Ph per ton	56.91	9999.00	0.07	9999.00	15 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
AC less than 65,000 3 Ph per ton	42.60	9999.00	0.05	9999.00	15 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Anti-sweat Heater Controls	1673.97	9999.00	0.01	0.00	12 Food Service Products	NRFS	per door	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
HP 135,000 - 240,000 per ton	158.69	9999.00	0.12	0.00	15 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
HP 65,000 - 135,000 per ton	109.67	9999.00	0.09	0.00	15 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
HP greater than 240,000 per ton	154.82	9999.00	0.11	0.00	15 HVAC	NRHVAC	perton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
HP less than 65.000 1 Ph per ton	111.01	9999.00	0.08	0.00	15 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
HP less than 65,000 3 Ph per ton	60.94	9999.00	0.05	0.00	15 HVAC	NRHVAC	per ton	Non-Residential	Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Night covers for displays	76.29	9999.00	0.00	0.00	5 Food Service Products	NRFS	per ton per linear foot of case	Non-Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Packaged Terminal AC	38.04	9999.00	0.04	0.00	15 HVAC	NRHVAC	per unit	Non-Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Setback Programmable Thermostat	1158.56	9999.00	0.04	0.03	11 HVAC	NRHVAC	per unit (thermostat)	Non-Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners/Franklin Energy
Window Film	4.09	9999.00	0.00	0.00	10 HVAC	NRHVAC	per unit (thermostat)	Non-Residential	Engineering Estimates Engineering Estimates	Morgan Marketing Partners/Franklin Energy
BONUS High Bay 2L T-5 High Output	385.00	0.09	0.07	0.07	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Bay 3L T-5 High Output	449.00	0.10	0.08	80.0	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Bay 4L T-5 High Output	882.00	0.20	0.17	0.17	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Bay 6L T-5 High Output	374.00	0.09	0.07	0.07	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Bay 8L T-5 High Output	2621.00	0.61	0.49	0.49	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Bay T8 4ft Fluorescent 4 Lamp (F32 Watt T8)	616.00	0.14	0.12	0.12	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Bay T8 4ft Fluorescent 6 Lamp (F32 Watt T8)	961.00	0.22	0.18	0.18	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Bay T8 4ft Fluorescent 8 Lamp (F32 Watt T8)	649.00	0.15	0.12	0.12	10 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Performance Low Watt T8 4ft 1 lamp, replacing standard T8	60.18	0.01	0.01	0.01	12 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Performance Low Watt T8 4ft 2 lamp, replacing standard T8	85.98	0.02	0.01	0.01	12 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Performance Low Watt T8 4ft 4 lamp, replacing standard T8	154.76	0.03	0.03	0.03	12 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Performance T8 4ft 2 lamp, replacing standard T8	72.43	0.02	0.01	0.01	12 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS Low Watt T8 lamps 2-4ft, replacing standard 32 Watt T8	35.05	0.01	0.01	0.01	12 Lighting	NRLTG	per bulb	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS Occupancy Sensors over 500 Watts	684.80	0.19	0.30	0.19	10 Lighting	NRLTG	per sensor	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS Occupancy Sensors under 500 Watts	273.50	0.08	0.12	0.08	10 Lighting	NRLTG	per sensor	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
VFD HVAC Fan	1011.70	0.16	0.07	9999.00	15 Pumps and Drives	NRP&M	per fan hp	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
VFD HVAC Pump	1558.00	0.27	0.21	9999.00	15 Pumps and Drives	NRP&M	per CHW pump hp	Non-Residential	Duke Energy Onio EM&V Evaluation	TecMarket Works
VFD Process Pump 1-50 HP	270.60	0.04	0.03	0.03	15 Pumps and Drives	NRP&M	per HP	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
BONUS High Performance Low Watt T8 4ft 3 lamp, replacing standard T8	146.16	0.04	0.03	0.03	12 Lighting	NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works
	44.39		0.03			NRLIG	per fixture (ballast + bulb)	Non-Residential		TecMarket Works
BONUS High Performance T8 4ft 1 lamp, replacing standard T8 BONUS High Performance T8 4ft 2 lamp, replacing T12 High Output 8ft 1 lamp	44.39 285.59	0.01	0.01	0.01	12 Lighting 12 Lighting	NRITG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation Duke Energy Ohio EM&V Evaluation	TecMarket Works
					0 . 0		po:			
BONUS High Performance T8 4ft 3 lamp, replacing standard T8	81.77 121.49	0.02	0.01	0.01	12 Lighting	NRLTG NRLTG	per fixture (ballast + bulb)	Non-Residential	Duke Energy Ohio EM&V Evaluation	TecMarket Works TecMarket Works
BONUS High Performance T8 4ft 4 lamp, replacing standard T8					12 Lighting			Non-Residential		
BONUS High Performance T8 4ft 4 lamp, replacing T12 High Output 8ft 2 lamp	523.89	0.11	0.09	0.09	12 Lighting	NRLTG	per fixture (ballast + bulb)		Duke Energy Ohio EM&V Evaluation	TecMarket Works
MSD Prescriptive	1000000.00	114.16	114.16	114.16	11 NRPRSD	NRPRSD	per 1,000,000 kWh	Non-Residential	Original Estimates (Based on EM&V evaluation report)	Duke Energy

Smart \$a	ver® Residential
	This program includes measures for lighting, HVAC Equipment and
	Services, Save Water and Energy Kits, and Multifamily products and
Program Description	services.
	Regarding the basis for the load impacts, DSM analysts and
	program managers determine the impact estimates using
	recognized industry standards such as IPMVP and UMP,
	information from DSM consultants including Morgan Marketing
	Partners and CleaResults, TRMs, and other utility third-party
	EM&V results of similar programs. Duke Energy requires all
	contracted third-party EM&V consultants to review the ex-ante
	savings for each program as a separate deliverable of each
	evaluation and uses the impact results of the evaluations to
Program Objections	update the program and measure impacts.
Customer Class	Residential
Duration	2017 - 2019
	2017 : 1,009,178
	2018 : 2,050,379
Estimated Program Participation*	2019: 2,955,537
-	2017: 31,860,748 kWh; 3,395 kW
	2018 : 63,902,026 kWh; 6,825 kW
Estimated Impacts*	2019 : 94,788,297 kWh; 10,165 kW
	Duke Energy Ohio served homeowners or renters currently
	residing or building a single family residence, condominium,
	duplex, apartment, or mobile home. The Multifamily Energy
	Efficiency Products & Services program is available to Duke
Program Participation Requirements	Energy Ohio served apartments on a residential rate.
	Including but not limited to: Email, Bill Messages, Bill Envelopes,
	Social Media, Direct Mail, Printed Collateral, Earned Media, Other
Marketing Approach	Duke Energy collaboration efforts
Program Implementation	Third Party Vendors
	2017 : \$7,879,154
	2018 : \$7,726,410
Program Budget	2019: \$7,065,579
Participant Costs (if any)	Varies by Measure
	The Company believes promoting investment in energy
	efficiency measures and customer engagement will advance the
	adoption of energy efficiency measures and behavior. The
	Company will continue to examine the level of free ridership in
	each of these programs as a potential indicator of market
Market Transformation Activities	transformation.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	·

Residential E	Energy Assessments
	Residential Energy Assessments is a free in-home assessment
	designed to help customers reduce energy usage and energy cost.
	Customers receive an Energy Efficiency Kit with a variety of
	measures that can be directly installed by the energy specialist at
	the time of the assessment. The kit may include measures such as
	energy efficient lighting, low flow water measures, outlet/switch
Program Description	gaskets, weather stripping and energy saving tips.
	Regarding the basis for the load impacts, DSM analysts and
	program managers determine the impact estimates using
	recognized industry standards such as IPMVP and UMP,
	information from DSM consultants including Morgan Marketing
	Partners and CleaResults, TRMs, and other utility third-party
	EM&V results of similar programs. Duke Energy requires all
	contracted third-party EM&V consultants to review the ex-ante
	savings for each program as a separate deliverable of each
	evaluation and uses the impact results of the evaluations to
Program Objections	update the program and measure impacts.
Customer Class	Residential
Duration	2017 - 2019
	2017 : 17,500
	2018 : 35,175
Estimated Program Participation*	2019 : 53,025
	2017: 1,670,100 kWh; 204 kW
	2018 : 3,356,901 kWh; 409 kW
Estimated Impacts*	2019: 5,060,402 kWh; 617 kW
	Available to individually metered residential customers receiving
	concurrent service from the Company. On-site assessments are
	only available to owner-occupied single family residences with at
Program Participation Requirements	least 4 months of billing history.
	Targeted mailings to pre-qualified residential customers. E-mail
	marketing will be used when targeted customers have elected to
	receive offers electronically. Home Energy House Call program
	information and an online assessment request form is available on
Marketing Approach	Duke Energy Ohio's website.
Program Implementation	Third Party Vendors
	2017 : \$1,033,319
	2018 : \$1,057,844
Program Budget	2019 : \$1,063,925
Participant Costs (if any)	Not applicable
	The Company believes promoting investment in energy
	efficiency measures and customer engagement will advance the
	adoption of energy efficiency measures and behavior. The
	Company will continue to examine the level of free ridership in
	each of these programs as a potential indicator of market
Market Transformation Activities	transformation.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	

My Home Ene	ergy Report (MyHER)
Wy nome and	
	The My Home Energy Report ("MyHER") is an energy efficiency program based on behavioral science to motivate energy efficient behavior. This program uses peer group of homes of similar size, age, type of heating fuel and geography to highlight the customer's variance in energy use when compared to the "Average Home" and
Program Description	"Efficient Home" of the peer group to engage the customer.
	Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each
Dysamore Ohiostions	evaluation and uses the impact results of the evaluations to
Program Objections Customer Class	update the program and measure impacts. Residential
Duration	2017 - 2019
	2017 : 400,052
	2018 : 400,853
Estimated Program Participation*	2019 : 401,661
	2017: 97,847,412 kWh; 25,019 kW
	2018: 98,463,103 kWh; 25,177 kW
Estimated Impacts*	2019: 98,559,874 kWh; 25,201 kW
	The audience is Duke Energy Ohio customers who are identified through demographic information as likely to decrease energy usage in response to the information contained in the My Home Energy Report document. These customers reside in individually-metered, single-family residences and multi-family residences
Program Participation Requirements	receiving concurrent service from the company.
	The Program will be marketed through direct mail. The reports are
Marketing Approach	also available to customers on-line or via mobile channels.
Program Implementation	Third Party Vendors
	2017 : \$4,622,106 2018 : \$4,708,403
Program Budget	2018 : \$4,708,403 2019 : \$4,745,667
Participant Costs (if any)	Not applicable
i di dicipant costs (ii any)	The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market
Market Transformation Activities	transformation.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	

J.	The Energy Efficiency Education Program for Schools is
	available to students K-8 enrolled in public and private schools, who reside in households served by Duke Energy Ohio. The primary goal of this program is to educate students on the importance of energy conservation and teach them how to save energy in their homes. This program includes both an energy saving curriculum for the school classroom and an Energy
rogram Description	Efficiency Starter kit provided to participating student household at no direct cost.
	Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to
rogram Objections	update the program and measure impacts.
Customer Class	Residential
Duration	2017 - 2019
stimated Program Participation*	2017 : 6,000 2018 : 12,000 2019 : 18,000 2017 : 3,209,568 kWh; 863kW
	2018: 6,419,136 kWh; 1,727 kW
stimated Impacts*	2019: 9,628,704 kWh; 2,590 kW Eligible participants include Duke Energy Ohio residential customers who reside in households with school-age children
rogram Participation Requirements	enrolled in public and private schools.
Marketing Approach	Including but not limited to: Email, Social Media, Direct Mail, Printed Collateral, Earned Media, Other Duke Energy collaboration efforts
rogram Implementation	Third Party Vendors
	2017: \$503,192
	2018 : \$506,039
rogram Budget	2019: \$507,834
articipant Costs (if any)	Not Applicable
	The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market
Narket Transformation Activities	transformation.
escription of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1

Powe	er Manager®
December 1 and 1 a	Power Manager is a residential load control program. It is used to reduce electricity demand by controlling residential air conditioners and electric water heaters during periods of peak
Program Description	demand.
	Regarding the basis for the load impacts of Power Manager and
	PowerShare, which have been evaluated annually for several
	years, Duke Energy Ohio has contracted third-party EM&V
	consultants to provide annual evaluations. These evaluations
	follow recommended industry practices, PJM guidelines, and/or
	are based on primary data collected from DR devices attached
	to the customers' air conditioner, data loggers, and interval/AMI
Program Objections	meters.
Customer Class	Residential
Duration	2017 - 2019
	2017: 45,477
	2018 : 46,894
Estimated Program Participation*	2019 : 48,188
	2017: Not Applicable kWh; 48,589 kW
	2018: Not Applicable kWh; 49,800 kW
Estimated Impacts*	2019: Not Applicable kWh; 50,859 kW
	This program is available to Duke Energy Ohio residential
	customers residing in owner-occupied, single-family residences
	with functioning outdoor air conditioning and/or eligible water
Program Participation Requirements	heaters.
	Including but not limited to: Email, Social Media, Direct Mail,
	Printed Collateral, Telemarketing, Other Duke Energy program
Marketing Approach	promotion
Program Implementation	Third Party Vendors
	2017: \$2,058,344
	2018: \$1,984,209
Program Budget	2019: \$2,039,294
Participant Costs (if any)	Not Applicable
	The Company believes promoting investment in energy
	efficiency and demand response measures and customer
	engagement will advance the adoption of energy efficiency and
Market Transformation Activities	demand response measures and behavior.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	

Low Incon	ne Neighborhood
	The Duke Energy Ohio Neighborhood Program takes a non-
	traditional approach to serving income-qualified areas of the
	Duke Energy Ohio service territory. The program engages
	targeted customers with personal interaction in a familiar
	setting. Ultimately, the program aims to reduce energy
	consumption by directly installing measures and educating the
Program Description	customer on better ways to manage their energy bills.
Frogram Description	Regarding the basis for the load impacts, DSM analysts and
	program managers determine the impact estimates using
	<u> </u>
	recognized industry standards such as IPMVP and UMP,
	information from DSM consultants including Morgan Marketing
	Partners and CleaResults, TRMs, and other utility third-party
	EM&V results of similar programs. Duke Energy requires all
	contracted third-party EM&V consultants to review the ex-ante
	savings for each program as a separate deliverable of each
	evaluation and uses the impact results of the evaluations to
Program Objections	update the program and measure impacts.
Customer Class	Residential
Duration	2017 - 2019
	2017 : 1,339
	2018 : 2,678
Estimated Program Participation*	2019 : 4,017
	2017 : 600,001 kWh; 184kW
	2018 : 1,200,001 kWh; 367 kW
Estimated Impacts*	2019 : 1,800,002 kWh; 551 kW
	This program will be available to income qualified homeowners
	and renters occupying single family and multi-family dwellings in
	the target neighborhoods that have electric service provided by
Program Participation Requirements	Duke Energy Ohio.
	Including but not limited to: Door Hangers, Social Media, Direct
	Mail, Press Releases, Community Partnerships, Community
Marketing Approach	Publications.
Program Implementation	Third Party Vendors
	2017 : \$587,106
Dun auraus Brodenst	2018: \$588,437
Program Budget	2019: \$590,590
Participant Costs (if any)	Not Applicable
	The Company believes promoting investment in energy
	efficiency measures and customer engagement will advance the
	adoption of energy efficiency measures and behavior. The
	Company will continue to examine the level of free ridership in
	each of these programs as a potential indicator of market
Market Transformation Activities Description of Evaluation, Measurement, and Verification	each of these programs as a potential indicator of market transformation. The EM&V plans for each program are provided in Exhibit TAH1.

Low Income Weatherization - Pay for Performance	
	The Low Income Weatherization - Pay for Performance program is designed to help Duke Energy Ohio income-qualified customers reduce their energy consumption and lower their energy cost. The weatherization program will also educate customers on their energy usage and other opportunities that can help reduce energy consumption and lower energy costs. Duke Energy will partner with the Ohio Home Weatherization Assistance Program to provide customers with weatherization services and other energy efficient measures such as refrigerators, water saving devices and efficient lighting. Agencies will be reimbursed a set fee per measure installed in Duke Energy customers' homes based on the average
Program Description	kWh savings per measure.
	Regarding the basis for the load impacts, DSM analysts and program managers determine the impact estimates using recognized industry standards such as IPMVP and UMP, information from DSM consultants including Morgan Marketing Partners and CleaResults, TRMs, and other utility third-party EM&V results of similar programs. Duke Energy requires all contracted third-party EM&V consultants to review the ex-ante savings for each program as a separate deliverable of each evaluation and uses the impact results of the evaluations to
Program Objections	update the program and measure impacts.
Customer Class	Residential
Duration	2017 - 2019
Estimated Program Participation*	2017: 15,685 2018: 31,369 2019: 47,054
Estimated Impacts*	2017: 4,922,709 kWh; 1,040 kW 2018: 9,845,418 kWh; 2,080 kW 2019: 14,768,128 kWh; 3,119 kW
Program Participation Requirements	This program will be available to income qualified homeowners and renters occupying single family and multi-family dwellings that have electric service provided by Duke Energy Ohio.
i rogium i articipation nequirements	The marketing strategy for this program will focus on utilizing low income agencies as the primary method for recruiting and informing customers of this program. Additional marketing will include mailers, flyers and direct contact between agencies and
Marketing Approach	customers.
Program Implementation	Third Party Vendors 2017: \$890,149 2018: \$893,994
Program Budget	2019: \$896,213
Participant Costs (if any)	Not Applicable The Company believes promoting investment in energy efficiency measures and customer engagement will advance the adoption of energy efficiency measures and behavior. The Company will continue to examine the level of free ridership in each of these programs as a potential indicator of market
Market Transformation Activities	transformation.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	The Livid v plans for each program are provided in Exhibit TATL.

Smart \$aver® Non-Residential Prescriptive	
	The Smart \$aver® Non-Residential Prescriptive Incentive provides
	incentives to commercial and industrial consumers for installation
Burney Burnetation	of energy efficient equipment in applications involving new
Program Description	construction, retrofit, and replacement of failed equipment.
	Regarding the basis for the load impacts, DSM analysts and
	program managers determine the impact estimates using
	recognized industry standards such as IPMVP and UMP,
	information from DSM consultants including Morgan Marketing
	Partners and CleaResults, TRMs, and other utility third-party
	EM&V results of similar programs. Duke Energy requires all
	contracted third-party EM&V consultants to review the ex-ante
	savings for each program as a separate deliverable of each
	evaluation and uses the impact results of the evaluations to
Program Objections	update the program and measure impacts.
Customer Class	Non-Residential
Duration	2017 - 2019
	2017: 608,471
	2018: 1,229,112
Estimated Program Participation*	2019: 1,858,886
	2017: 40,844,357 kWh; 6,001kW
Full control to control	2018 : 82,505,601 kWh; 12,123 kW
Estimated Impacts*	2019: 124,303,798 kWh; 18,225 kW
	All non-residential customers served by Duke Energy in Ohio are
	eligible for the Smart \$aver® program. Although customers may
	choose to opt-out of the Duke Energy program and energy
Program Participation Requirements	efficiency rider.
	Including but not limited to: Email, Social Media, Direct Mail,
	Printed Collateral, Newsletters, Account and Segment Managers,
Marketing Approach	Other Duke Energy collaboration efforts
Program Implementation	Third Party Vendors
	2017: \$6,562,791
Duaguaga Dudagat	2018 : \$6,725,816
Program Budget	2019: \$6,878,144
Participant Costs (if any)	Varies by Measure
	The Company believes promoting investment in energy
	efficiency measures and customer engagement will advance the
	adoption of energy efficiency measures and behavior. The
	Company will continue to examine the level of free ridership in
	each of these programs as a potential indicator of market
Market Transformation Activities	transformation.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	

Smart \$aver® Non-Residential Custom	
	Duke Energy's Smart \$aver® Non-Residential Custom Incentive
	offers financial assistance to qualifying commercial, industrial and
	institutional customers to enhance their ability to adopt and install
Program Description	cost-effective electrical energy efficiency projects.
	Regarding the basis for the load impacts, DSM analysts and
	program managers determine the impact estimates using
	recognized industry standards such as IPMVP and UMP,
	information from DSM consultants including Morgan Marketing
	Partners and CleaResults, TRMs, and other utility third-party
	EM&V results of similar programs. Duke Energy requires all
	contracted third-party EM&V consultants to review the ex-ante
	savings for each program as a separate deliverable of each
	evaluation and uses the impact results of the evaluations to
Program Objections	update the program and measure impacts.
Customer Class	Non-Residential
Duration	2017 - 2019
	2017: 15,702
	2018 : 28,735
Estimated Program Participation*	2019 : 42,159
	2017 : 23,557,184 kWh; 2,689 kW
	2018 : 43,109,647 kWh; 4,921 kW
Estimated Impacts*	2019: 63,248,684 kWh; 7,220 kW
	All non-residential customers served by Duke Energy in Ohio are
	eligible for the Smart \$aver® program. Although customers may
	choose to opt-out of the Duke Energy program and energy
Program Participation Requirements	efficiency rider.
	Including but not limited to: Email, Social Media, Direct Mail,
	Printed Collateral, Newsletters, Account and Segment Managers,
Marketing Approach	Trade Allies, and Other Duke Energy collaboration efforts
Program Implementation	Third Party Vendors
	2017: \$3,008,863
	2018: \$2,659,400
Program Budget	2019: \$2,751,076
Participant Costs (if any)	Varies by Measure
	The Company believes promoting investment in energy
	efficiency measures and customer engagement will advance the
	adoption of energy efficiency measures and behavior. The
	Company will continue to examine the level of free ridership in
	each of these programs as a potential indicator of market
Market Transformation Activities	transformation.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	

Small Busi	Small Business Energy Saver	
	The objective of the Small Business Energy Saver is to enable the	
	installation of high efficiency equipment in existing small non-	
Program Description	residential facilities.	
	Regarding the basis for the load impacts, DSM analysts and	
	program managers determine the impact estimates using	
	recognized industry standards such as IPMVP and UMP,	
	information from DSM consultants including Morgan Marketing	
	Partners and CleaResults, TRMs, and other utility third-party	
	EM&V results of similar programs. Duke Energy requires all	
	contracted third-party EM&V consultants to review the ex-ante	
	savings for each program as a separate deliverable of each	
	evaluation and uses the impact results of the evaluations to	
Program Objections	update the program and measure impacts.	
Customer Class	Non-Residential	
Duration	2017 - 2019	
	2017 : 24,713,200	
	2018: 48,601,700	
Estimated Program Participation*	2019: 69,695,700	
	2017: 26,257,838 kWh; 5,907 kW	
	2018: 51,639,429 kWh; 11,617 kW	
Estimated Impacts*	2019: 74,051,858 kWh; 16,659 kW	
	Non-residential small business customers served by Duke	
	Energy in Ohio are eligible for the Small Business Energy Saver	
Program Participation Requirements	Program.	
	Including but not limited to: Email, Social Media, Direct Mail,	
	Printed Collateral, Newsletters, Account and Segment Managers,	
Marketing Approach	Trade Allies, and Other Duke Energy collaboration efforts	
Program Implementation	Third Party Vendors	
	2017: \$5,252,572	
	2018 : \$5,098,983	
Program Budget	2019: \$4,524,267	
Participant Costs (if any)	Varies by Measure	
	The Company believes promoting investment in energy	
	efficiency measures and customer engagement will advance the	
	adoption of energy efficiency measures and behavior. The	
	Company will continue to examine the level of free ridership in	
	each of these programs as a potential indicator of market	
Market Transformation Activities	transformation.	
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.	
*Cumulative impacts and participants		

PowerShare®	
	PowerShare® is Duke Energy Ohio's demand response program
	offered to commercial and industrial customers. The program
Program Description	offers various options for customers to choose from.
	Regarding the basis for the load impacts of Power Manager and
	PowerShare, which have been evaluated annually for several
	years, Duke Energy Ohio has contracted third-party EM&V
	consultants to provide annual evaluations. These evaluations
	follow recommended industry practices, PJM guidelines, and/or
	are based on primary data collected from DR devices attached
	to the customers' air conditioner, data loggers, and interval/AMI
Program Objections	meters.
Customer Class	Non-Residential
Duration	2017 - 2019
	2017 : 43,100
	2018 : 30,000
Estimated Program Participation*	2019 : 30,000
	2017: Not Applicable kWh; 46,203 kW
	2018: Not Applicable kWh; 32,160 kW
Estimated Impacts*	2019: Not Applicable kWh; 32,160 kW
	All non-residential customers who are able to meet the load
Program Participation Requirements	shedding requirements.
Marketing Approach	Including but not limited to: Account and Segment Managers
Program Implementation	Third Party Vendors
	2017 : \$3,029,934
	2018 : \$2,423,793
Program Budget	2019 : \$2,447,707
Participant Costs (if any)	Not Applicable
	The Company believes promoting investment in energy
	efficiency and demand response measures and customer
	engagement will advance the adoption of energy efficiency and
Market Transformation Activities	demand response measures and behavior.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	

Power Manager® for Apartments	
Program Description	Power Manager for Apartments is a residential load control program focused on Apartment Complexes/Communities. It is used to reduce electricity demand by controlling residential air conditioners and/or electric water heaters during periods of peak demand.
	Regarding the basis for the load impacts of Power Manager and PowerShare, which have been evaluated annually for several years, Duke Energy Ohio has contracted third-party EM&V consultants to provide annual evaluations. These evaluations follow recommended industry practices, PJM guidelines, and/or are based on primary data collected from DR devices attached
Program Objections	to the customers' air conditioner, data loggers, and interval/AMI meters.
Customer Class	Residential
Duration	2017 - 2019
Estimated Program Participation*	2017 : 94 2018 : 476 2019 : 915
Estimated Impacts*	2017: Not Applicable kWh; 67 kW 2018: Not Applicable kWh; 399 kW 2019: Not Applicable kWh; 792 kW
Program Participation Requirements	This program is available to Duke Energy Ohio residential customers residing in apartments with functioning outdoor air conditioning and/or eligible water heaters.
And all an Annual b	Including but not limited to: Email, Social Media, Direct Mail,
Marketing Approach	Printed Collateral, Other Duke Energy program promotion
Program Implementation	Third Party Vendors
	2017 : \$116,217 2018 : \$141,115
Program Budget	2016 : \$141,115 2019 : \$185,045
Participant Costs (if any)	Not Applicable
r articipant costs (ii any)	The Company believes promoting investment in energy
	efficiency and demand response measures and customer
	engagement will advance the adoption of energy efficiency and
Market Transformation Activities	demand response measures and behavior.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
-	The Line v plans for each program are provided in Exhibit PARTE.
*Cumulative impacts and participants	

Power Manager® for Business	
Program Description	Provides business customers with the opportunity to participate in demand response, earn incentives and realize optional energy efficiency benefits. This program is designed as a flexible offer that provides small-to-medium size business customers with options on device types as well as level of demand response participation. Customers first select the type of device from two available options: thermostat or switch. Regarding the basis for the load impacts of Power Manager and PowerShare, which have been evaluated annually for several years, Duke Energy Ohio has contracted third-party EM&V consultants to provide annual evaluations. These evaluations follow recommended industry practices, PJM guidelines, and/or are based on primary data collected from DR devices attached to the customers' air conditioner, data loggers, and interval/AMI
Program Objections	meters.
Customer Class	Non-Residential
Duration	2017 - 2019
Estimated Program Participation*	2017: 138 2018: 1,625 2019: 3,745 2017: 62,631 kWh; 270 kW
Father to differ a state	2018 : 739,414 kWh; 3,183 kW
Estimated Impacts* Program Participation Requirements	2019: 1,705,046 kWh; 7,332 kW This program is available to eligible Duke Energy Ohio small and medium commercial establishments. Including but not limited to: Email, Social Media, Direct Mail,
Marketing Approach	Printed Collateral, Other Duke Energy program promotion
Program Implementation Program Budget	Third Party Vendors 2017: \$531,272 2018: \$454,686 2019: \$691,685
Participant Costs (if any)	
Market Transformation Activities	Not Applicable The Company believes promoting investment in energy efficiency and demand response measures and customer engagement will advance the adoption of energy efficiency and demand response measures and behavior.
Description of Evaluation, Measurement, and Verification	The EM&V plans for each program are provided in Exhibit TAH1.
*Cumulative impacts and participants	

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

6/15/2016 12:58:09 PM

in

Case No(s). 16-0576-EL-POR

Summary: Application Duke Energy Ohio, Inc.'s Application for Energy Efficiency and Peak Demand Reduction Portfolio of Programs electronically filed by Ms. E Minna Rolfes on behalf of Amy B. Spiller and Elizabeth H. Watts and Duke Energy Ohio, Inc.