

DISTRIBUTED GENERATION POTENTIAL STUDY FOR PENNSYLVANIA

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LIST OF ACRONYMS

ACEEE	American Council for an Energy-Efficient Economy
BC	Benefit-Cost
CB ECS	Commercial Buildings Energy Consumption Survey
CHP	Combined heat and power
DG	Distributed generation
DOE	Department of Energy
DSM	Demand-side Management
EDC	Electric Distribution Company
EF	Energy Factor
EIA	Energy Information Administration
EM&V	Evaluation, measurement and verification
EPA	Environmental Protection Agency
EUL	Effective Useful Life
KW	Kilowatt
KWH	Kilowatt hour
MECS	Manufacturing Energy Consumption Survey
MEF	Modified Energy Factor
MET ED	Metropolitan Edison Company
MFG	Manufacturing
MPS	Market Potential Study
MW	Megawatt
MWH	Megawatt hour
NEEP	Northeast Energy Efficiency Partnership
NREL	National Renewable Energy Lab
NTG	Net-to-gross
PA	Pennsylvania
PECO	PECO Energy Company
PENELEC	Pennsylvania Electric Company
PENN POWER	Pennsylvania Power Company

PPL	PPL Electric Utilities Corporation
PUC	Public Utility Commission
PY	Program Year
RECS	Residential Energy Consumption Survey
SEER	Seasonal Energy Efficiency Ratio
Solar PV	Solar Photovoltaic
SWE	Statewide Evaluator
T&D	Transmission and distribution
TRC	Total Resource Cost Test
TRM	Technical Reference Manual
WPP	West Penn Power Company

EXECUTIVE SUMMARY

This study summarizes the distributed generation (DG) market potential analysis performed by the Statewide Evaluator (SWE) team for the State of Pennsylvania through a 10-year period of June 1, 2016 through May 31, 2025. The State of Pennsylvania commissioned the study as a companion report to the “Energy Efficiency Potential Study for Pennsylvania¹”. The SWE conducted this study noting that as part of Act 129² “EE&C³ measures” that count towards a possible Phase III energy reduction target can include commission-approved DG technologies such as solar photovoltaic and combined heat and power.

Approach Summary

The SWE team used a bottom-up approach to estimate the potential of various distributed generation technologies in the residential, commercial and industrial sectors. The DG technologies assessed in this study are categorized as rooftop solar photovoltaic (solar PV) and combined heat and power (CHP) technologies. The SWE utilized a “bottom-up” modeling approach to first estimate technology-level savings and costs to estimate cost-effectiveness, and then applied cost-effective technology generation savings to all applicable shares of each EDC’s energy load. While the SWE considered the cost-effectiveness⁴ of several measures within each DG category, only those measures that were cost-effective and/or found to be part of electric distribution company (EDC)⁵ DSM portfolios were fully analyzed in this report for technical, economic and achievable potential. Some measures such as landfill gas, animal waste gas, digester and small-scale wind (less than 500 kW systems) were not analyzed beyond cost-effectiveness, and therefore are not included in the SWE team’s estimate of technical potential. Further details of the market research and modeling techniques utilized in this assessment are provided in **Section 1** of this report.

Cumulative vs. Incremental Annual Savings

It is important to note the distinction between cumulative annual savings and incremental savings. Incremental annual savings are those which occur in a given year due to participation in energy efficiency programs in that given year. Cumulative annual energy savings are those which accumulate in any given year due to participation in distributed generation programs in that given year as well as participation in prior years, to the extent that participation in prior years continues to yield savings. Cumulative annual energy savings account for the fact that technologies installed in prior years may have useful lives which are greater than one year, and therefore produce savings which persist into the future for some time. However, cumulative annual energy savings also reflect savings decay – that is savings that can no longer be counted in a given year once a measure is no longer operational or has “burned-out.”

All savings values included in this report reflect cumulative annual savings. However, for the purposes of this study cumulative annual and the sum of the annual incremental are identical since the study horizon is 10 years, and no technologies included in this report have an estimated useful life (EUL) of less than 10 years.

¹ *Energy Efficiency Potential Study for Pennsylvania*, Statewide Evaluation Team, 2015.

² Act 129 EE&C Phase II Implementation Order – Entered Aug. 3, 2012. The Act 129 Phase 2 EE&C Program Implementation Order. From the Public Meeting of August 2, 2012. Docket Nos. M-2012-2289411 and M-2008-2069887

³ EE&C = energy efficiency and conservation

⁴ Per the PA Act 129 TRC Order

⁵ EDCs evaluated within this study include Duquesne Light and Power, PPL Energy, PECO Energy, and the four First Energy Companies: Met-Ed, Penelec, PennPower, and West Penn Power.

Study Limitations

As with any assessment of potential, this study necessarily builds on various assumptions and data sources, including the following:

- DG technology lives, technology savings and technology costs
- The discount rate for determining the net present value (NPV) of future savings
- Projected penetration rates for DG technologies
- Projections of electric generation avoided costs for electric capacity and energy as defined in the 2009 and 2011 Pennsylvania PUC TRC Orders
- Projections of transmission and distribution (T&D) avoided costs
- EDC load forecasts and assumptions on their disaggregation by sector, segment, and end-use

While the SWE has sought to use the best and most current available data, there are assumptions where there may be a reasonable alternative that would yield slightly different results. Furthermore, while the lists of DG technologies examined in this study characterize a representative list of commercially available solar PV and CHP technologies, the technology list is not exhaustive. Finally, there was no attempt to place a dollar value on some difficult to quantify non-energy benefits arising from installation of some technologies, such as CO₂ emission reductions or the value of energy security in the case of a power grid failure, which may in turn support some personal choices to implement particular DG technology that may otherwise not be cost-effective or only marginally so.

Distributed Generation Savings Potential Findings

Table ES-1 and Figure ES-1 summarize the cumulative annual potential of all DG technologies in Pennsylvania. All energy (MWh) and demand (MW) potential in this report is summarized at the 3, 5 and 10 year time horizon. Of note is that while technical potential includes energy and demand savings from both CHP and solar PV technologies, cost-effective potential was found only for CHP technologies under PA's TRC test, and therefore is the only technology contributing to economic and achievable potential. The SWE estimates that 413,508 MWh of potential (47.2 MW of demand savings) can be realized with DG technologies by 2020 under the base achievable scenario, representing 0.3% of total energy sales. The SWE also estimates an emissions reduction potential of approximately 150,481 metric tons of carbon dioxide (CO₂) associated with the base achievable scenario by 2020.

Table ES-1: Statewide Cumulative Energy & Demand Savings Potential by Scenario by Year

Scenario	2018	2020	2025	Average Annual
Cumulative Savings Potential - MWh				
Technical	13,117,733	21,924,076	44,145,324	4,414,532
Economic	617,949	1,033,036	2,079,790	207,979
Maximum Achievable	494,476	826,624	1,664,225	166,422
Base Achievable	247,355	413,508	832,506	83,251
Cumulative Energy Savings Potential - % of 2010 Total Load				
Technical	8.9%	14.9%	30.1%	3.0%
Economic	0.4%	0.7%	1.4%	0.1%
Maximum Achievable	0.3%	0.6%	1.1%	0.1%
Base Achievable	0.2%	0.3%	0.6%	0.1%
Demand Savings Potential – Peak MW				
Technical	2,384.9	3,985.8	7,997.4	799.7

Scenario	2018	2020	2025	Average Annual
Economic	70.5	117.9	237.4	23.7
Maximum Achievable	56.4	94.4	190.0	19.0
Base Achievable	28.2	47.2	95.0	9.5
Cumulative Demand Savings Potential - % of 2014 Total Load				
Technical	13.0%	21.7%	43.5%	4.4%
Economic	0.4%	0.6%	1.3%	0.1%
Maximum Achievable	0.3%	0.5%	1.0%	0.1%
Base Achievable	0.2%	0.3%	0.5%	0.1%
Avoided CO₂ Savings Potential – Metric Tons⁶				
Technical	8,623,668	14,412,268	29,019,853	2,901,985
Economic	224,880	375,935	756,862	75,686
Maximum Achievable	179,946	300,819	605,633	60,563
Base Achievable	90,016	150,481	302,959	30,296

Figure ES-1: Statewide Cumulative DG Energy (MWh) Savings by Scenario by Year

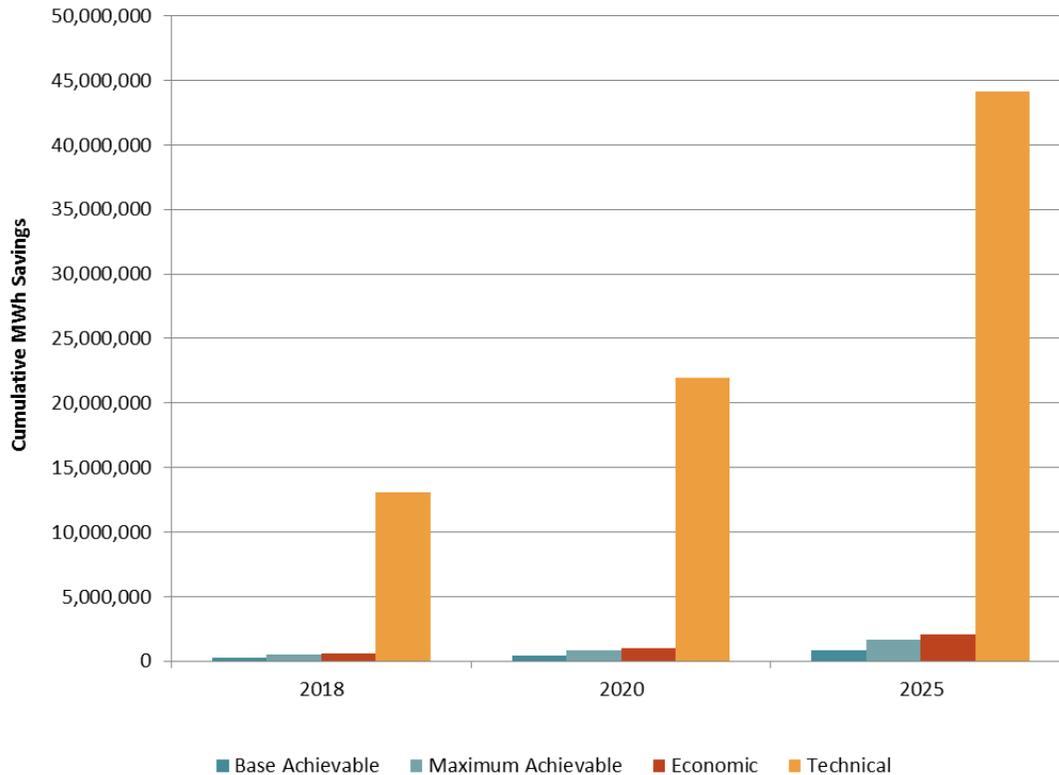


Figure ES-2 shows the cumulative annual energy (MWh) savings impacts for each potential scenario relative to the combined EDC statewide load forecast for 2016-2025.

⁶ The SWE used a CO₂ emission rate multiplier of 1,707 lbs of CO₂ per MWh-saved derived from a 2014 PJM Emission Report, then converted it to metric tons

Figure ES-2: 2016-2025 Statewide Energy Forecast and DG Potential Savings Projections by Scenario

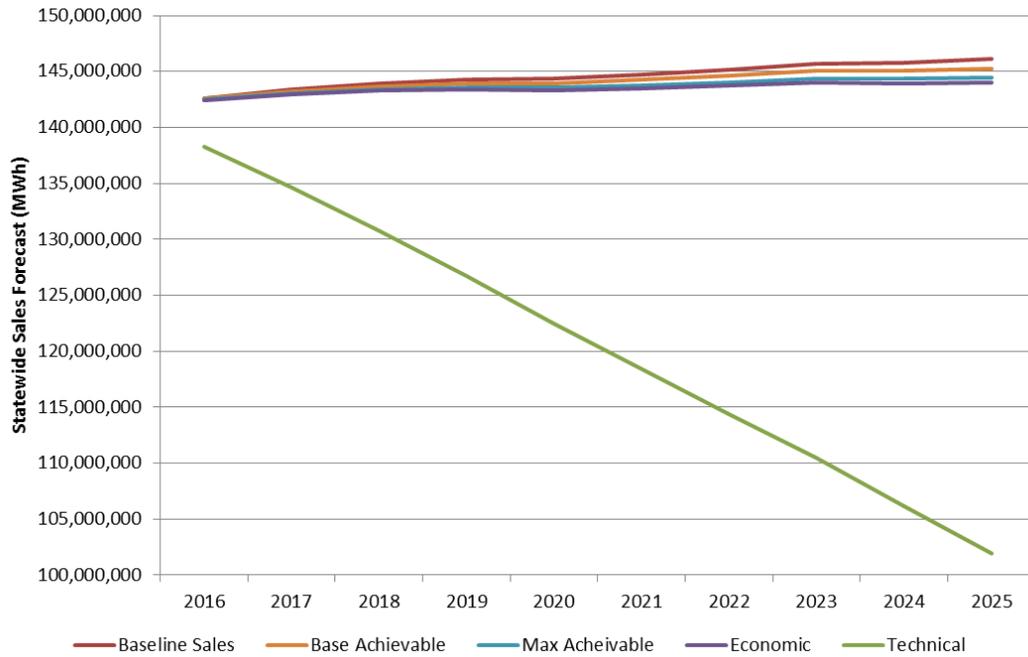


Table ES-2 summarizes the cumulative potential by DG technology, by scenario, by year. As mentioned earlier, CHP technologies were the only technologies that passed TRC cost-effectiveness. On an average annual basis, the technical scenario shows potential for 1,257,670 MWh of CHP savings and 3,156,863 MWh of Solar PV savings.

Table ES-2: Statewide Potential by DG Technology by Scenario by Year

DG Technology	Scenario	2018	2020	2025	Average Annual
		Cumulative Energy Savings Potential - MWh			
Combined Heat & Power (CHP)	Technical	3,736,051	6,245,974	12,576,696	1,257,670
	Economic	617,949	1,033,036	2,079,790	207,979
	Max. Achievable	494,476	826,624	1,664,225	166,422
	Base Achievable	247,355	413,508	832,506	83,251
Solar PV	Technical	9,381,682	15,678,102	31,568,628	3,156,863
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Total	Technical	13,117,733	21,924,076	44,145,324	4,414,532
	Economic	617,949	1,033,036	2,079,790	207,979
	Max. Achievable	494,476	826,624	1,664,225	166,422
	Base Achievable	247,355	413,508	832,506	83,251

Figure ES-3 shows that 71.5% of the cumulative technical potential in 2020 comes from Solar PV technology, followed by CHP technologies with 28.5% of overall potential. Cost-effective achievable potential was only found with CHP technologies.

Figure ES-3: Statewide 2020 Savings Distribution by DG Technology, Technical Scenario

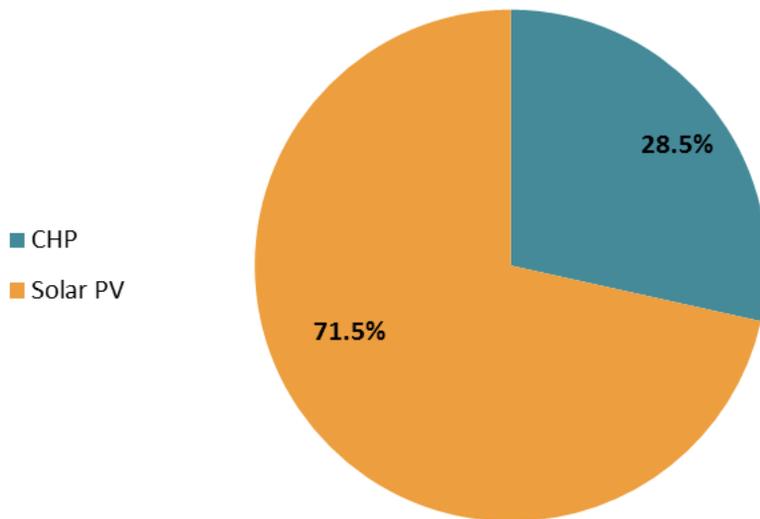


Table ES-3 and Table ES-4 show the statewide TRC benefits and costs for the base achievable scenario, as well as the acquisition costs for all cost-effective DG technologies. Since no solar PV technologies passed cost-effectiveness, CHP technologies are the only technologies in the maximum and base achievable scenarios. Passing CHP technologies have a TRC ratio of 1.16, with an acquisition cost of \$60.5/MWh under the base achievable scenario.

Table ES-3: Statewide TRC Cost-Effectiveness Results by Scenario for 2016-2020

	NPV Costs (Millions)	NPV Benefits (Millions)	NPV Net Benefits (Millions)	TRC Ratio
Maximum Achievable	\$460.46	\$532.35	\$71.89	1.16
Base Achievable	\$230.34	\$266.30	\$35.96	1.16

Table ES-4: Statewide Acquisition Costs by Scenario for 2016-2020

	2016-2020 Costs (Millions)	2016-2020 Savings (MWh)	Acquisition Cost (\$/1st-YR MWh Saved)
Maximum Achievable	\$58.14	494,476	\$117.6
Base Achievable	\$14.97	247,355	\$60.5

This study concludes that while there are still substantial amounts of technical potential for distributed generation technologies, there are limited opportunities for cost-effective potential when individual distributed generation technologies are screened using the total resource cost (TRC) test rules in Pennsylvania. Furthermore, those technologies that did pass cost-effectiveness did so with a modest average TRC ratio of 1.16. This finding is a consequence of several factors, including high distributed generation equipment costs (especially for solar photovoltaic systems), moderate to low avoided costs in Pennsylvania (resulting in minimum benefits for distributed generation technologies), and a limitation of 15 years of benefits (due to statutory definitions within Act 129 that limit consideration to a maximum 15 year life for all equipment and measures) for distributed generation technologies that typically have a 20 to 30 year lifetime.

However, the SWE notes that distributed generation technologies such as solar photovoltaic and combined heat and power can still play a role in EDC demand side management programs given the significant amount of technical potential found in this study. Furthermore, distributed generation resources can provide non-energy benefits to customers such as carbon dioxide emission reductions and added energy security that businesses can benefit from in the case of a power grid failure; these benefits among others were not quantified in this report. With relative low acquisition costs, these resources can still provide value to Pennsylvania rate-payers and allow the EDCs to reduce energy demand, while still keeping their portfolio of DSM programs cost-effective.

Organization of the Report

The remainder of this report is organized in the following seven sections as follows:

Section 1: Analysis Approach details the methodology used to develop the estimates of technical, economic, and achievable potential for distributed generation savings.

Section 2: Characterization of Pennsylvania Service Area provides a summary of the electric sales distribution by sector for the forecast horizon of this study (2016 to 2025).

Section 3: Summary of Distributed Generation Savings Potential Findings (2016-2025) provides a breakdown of the technical, economic, and achievable potential of all DG technologies combined (solar PV and CHP) for the portfolio, by sector, and by EDC.

Section 4: Solar Photovoltaic Savings Potential Findings (2016-2025) provides a breakdown of the technical, economic, and achievable potential of the solar PV technologies for all sectors.

Section 5: Combined Heat & Power Savings Potential Findings (2016-2025) provides a breakdown of the technical, economic, and achievable potential of the CHP technologies in the commercial and industrial sectors.

Section 6: Conclusions presents the final discussion regarding potential for distributed generation savings in Pennsylvania from 2016 to 2025.

1 ANALYSIS APPROACH

This section describes the overall methodology the SWE Team utilized to conduct the Pennsylvania statewide electric distributed generation potential study. The main objective of this study is to estimate the technical, economic, achievable energy (MWh) and demand (MW) savings potential for distributed generation resources statewide for the periods of 3, 5 and 10 years beginning June 1, 2016.

This electric distributed generation potential study provides results that are both statewide and specific to each of the seven Pennsylvania EDCs. To accomplish this objective, the SWE Team created a series of unique distributed generation potential models for each of the seven EDCs and for each primary market sector (residential, commercial, and industrial).

1.1 Overview of Approach

The SWE Team used a bottom-up approach to estimate distributed generation potential by first estimating generation equipment potential, installed technology costs, as well as cost-effectiveness, and then applied cost-effective generation opportunity to all applicable shares of energy consumption within each market sector. Many methodological activities and steps are similar to those performed in the companion 2015 potential study for energy efficiency⁷ conducted by the SWE team. However, due to the lower prevalence of cost-effective distributed generation resources as compared to energy efficiency resource, there is more limited Pennsylvania and national market research. This limitation results in study assumptions, which this report attempts to make transparent. For distributed generation resources, the SWE considered potential achievements over a twenty year period. Results presented in a three, five and ten year period are scaled as a percentage over the twenty year period assuming a flat ramp rate of achievements. Further details of the market research and modeling techniques utilized in this assessment are provided in the following sections.

1.2 Forecast Disaggregation

This analysis of the potential for distributed generation savings begins with utilizing the most recent and available electricity sales forecasts from Pennsylvania EDCs for a period of 10 years beginning June 1, 2016, which reflects annual energy reductions from Act 129 Phases I and II.

Disaggregated forecast data provides the foundation for the development of energy efficiency potential estimates for the commercial and industrial sectors. The SWE Team applied the technology-level savings factors discussed in the Technical Potential section below to the corresponding share of the EDC's energy load by sector (residential, commercial and industrial), and by segment (building type).

For each sector, the SWE Team disaggregated each EDC's baseline 2016-2025 load forecast using a top-down analysis. The SWE Team conducted this top-down forecast disaggregation by applying EDC-specific sector and segment (building type) consumption shares derived from the 2014 Pennsylvania Residential and Non-Residential Baseline reports to each EDC's load forecast. In this exercise, the SWE Team:

- Determined energy consumption per customer sector in baseline year (2016)
- Determined the energy consumption share per segment within each sector in the baseline year (2016)
- Forecasted the 10-year end-use energy consumption by sector and segment through 2025

⁷ *Energy Efficiency Potential Study for Pennsylvania*, Statewide Evaluation Team, 2015.

The commercial sector, as defined in this analysis, was comprised of the following business segments:

- Institutional
 - Education
 - Healthcare
 - Government/Public Service
 - Other Institutional
- Grocery
- Lodging
- Office
- Restaurant
- Retail
- Warehouse
- Miscellaneous

The industrial sector, as defined in this analysis, was comprised of the following industrial segments:

- Manufacturing
 - Chemicals
 - Computers and Electronics
 - Food
 - Metals
 - Paper
 - Plastics
 - Other
- Mining
- Other Non-Manufacturing

The residential sector, as defined in this analysis, was comprised of the following residential segments:

- Single Family Detached
- Single Family Attached
- Multifamily

1.2.1 Premise Eligibility Considerations for CHP

For the combined heat and power (CHP) technologies potential estimate, only a portion of the non-residential population was included. That is, only those customer segments whose electric and thermal load profiles allow for the application of CHP were considered. Using the known business type customer data for the largest customers and customer demand profiles from other jurisdictions, the customer energy sales data was utilized to estimate customers with a peak load of 150 kW or more. Customers with less than 150 kW of peak demand are not expected to have the consistent electric and thermal loads necessary to support CHP.

A thermal factor was applied to potential candidate customer loads to reflect thermal load considerations in CHP sizing. In most cases, on-site thermal energy demand is smaller than electrical demand. Thus, CHP size is usually dictated by the thermal load in order to achieve proper efficiencies and adequate returns on investment. Using electric and thermal intensity data from prior studies, the SWE used power to heat ratios for the prime mover CHP technology for different market segments to calculate the thermal factor as shown in Equation 1-1.

Equation 1-1: Thermal Factor Equation

$$\text{Thermal Factor} = \frac{P/H \text{ (CHP System)}}{P/H \text{ (Customer Segment)}}$$

A thermal factor of one (1.0) would result in the CHP system capacity being equal to the electric demand of the facility. A thermal factor of less than one would indicate that the application is thermally limited and the resulting CHP system size would be below the electric demand of the facility. A thermal factor greater than one indicates that a CHP system sized to the thermal load would produce more electricity than can be used on-site, resulting in excess power that could be exported to the grid. Table 1-1 and Table 1-2 summarize the thermal factors and corresponding kWh building consumption threshold the SWE used for CHP sizing. Any customer premises with an annual kWh consumption below the listed thresholds were removed from the analysis. To develop the kWh thresholds, the SWE team utilized the energy generation of the smallest CHP technology assessed in this study (150 kW micro turbine) and divided that energy generation by the thermal factor for each commercial and industrial segment. The thermal factors and thresholds are intended to be reasonable values representative of the average building in each commercial segment that would be eligible to have a CHP technology installed onsite.

Table 1-1: Commercial Thermal Factors for CHP Size⁸

Commercial Segment	Thermal Factor	kWh Threshold
Education	0.75	700,800
Health	0.94	559,149
Public service	0.62	847,742
Institutional	0.62	847,742
Grocery	0.20	2,628,000
Lodging	0.84	625,714
Office	0.62	847,742
Restaurant	0.48	1,095,000
Retail	0.37	1,420,541
Warehouse	0.68	770,110
Misc.	0.68	770,110

Table 1-2: Industrial Thermal Factors for CHP Size

Industrial Segment	Factor	kWh Threshold
Mfg: Chemicals and Allied Products	1.29	407,442
Mfg: Electronic Equipment	0.26	2,021,538
Mfg: Food	1.10	477,818
Mfg: Primary Metals	0.33	1,592,727
Mfg: Paper and Allied Products	2.37	221,772
Mfg: Rubber and Mixed Plastics	0.31	1,695,484
Mfg: Misc Mfg	1.34	392,239
Mining & Extraction	0.25	2,102,400
Other Non-Manufacturing	1.34	392,239

⁸ ICF International's 2010 Combined Heat and Power Market Assessment for the California Energy Commission. This study included compiled energy consumption data for different building types and end-uses from the DOE EIA Commercial Buildings Energy Consumption Survey (CBECS), the DOE Manufacturing Energy Consumption Survey (MECS), the Major Industrial Plant Database (MIPD), and the Commercial Energy Profile Database (CEPD).

1.3 Technology Characterization

The following section details the main assumptions used for each DG technology analyzed in this report.

1.3.1 Solar Photovoltaic Systems (PV)

Photovoltaic systems utilize solar panels, a packaged collection of photovoltaic cells, to convert sunlight into electricity. A system is constructed with multiple solar panels, a DC/AC inverter, a racking system to hold the panels, and electrical system interconnections. These systems are often roof-mounted systems that face south-west, south, and/or, south-east. This study only analyzed the potential associated with roof-mounted systems installed on residential, commercial and industrial buildings. This study did not explore the technical potential associated with ground-mounted or utility-scale solar PV installations, because these technologies were determined to often not be connected to customer premise metering and were also found to be non-cost-effective within the study horizon. One of the largest considerations in solar photovoltaic systems is the installed cost of equipment. The values utilized in this study are summarized in Table 1-3 below and reflect the cost to install rooftop solar systems in Pennsylvania as of 2014. The SWE conducted additional research on the declining cost of rooftop solar PV in the U.S. and its impact on cost-effectiveness – this analysis is summarized in Section 4.3.

Table 1-3: Solar Photovoltaic Installed Costs

Sector	Size (kW)	Type	System Cost (\$/ DC Watt)	DC to AC Derate Factor
Residential	3.2	Rooftop	\$4.09	85%
Commercial/Industrial	50.0	Rooftop	\$3.65	95%

Photovoltaic cost data was summarized from the following sources⁹:

- PA Department of Environmental Protection. 2013. Reported costs from PA Sunshine Residential/Small Business Solar PV Program.
- National Renewable Energy Lab (NREL). 2012a. *Photovoltaic (PV) Pricing Trends: Historical, Recent, and Near-Term Projections*. Technical Report DOE/GO-102012-3829
- NREL. 2012b. SunShot Vision Study. Chapter 4: *Photovoltaics: Technologies, Cost, and Performance*. DOE/GO-102012-3037
- Lawrence Berkeley National Lab (LBNL). 2011. *Tracking the Sun VI: An Historical Summary of the Installed Cost of Photovoltaics in the United States from 1998 to 2012*. LBNL-6350EE
- E3 (Energy and Environmental Economics, Inc.) 2012. *Technical Potential for Local Distributed Photovoltaics in California*. <http://www.cpuc.ca.gov/NR/rdonlyres/8A822C08-A56C-4674-A5D2-099E48B41160/0/LDPVPotentialReportMarch2012.pdf>

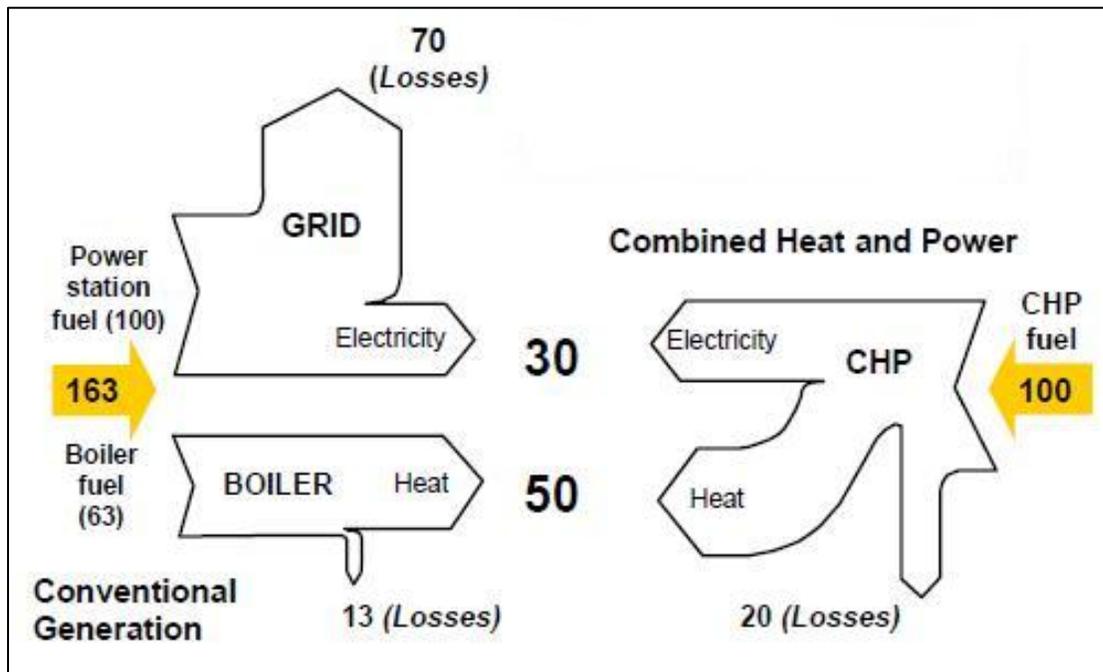
1.3.2 Combined Heat and Power (CHP)

In most CHP applications, a heat engine creates shaft power that drives an electrical generator (fuel cells can produce electrical power directly from electrochemical reactions). The waste heat from the engine is then recovered to provide steam or hot water to meet on-site needs. By combining the thermal and electrical energy generation in one process, the total efficiency of a CHP application far exceeds that of a separate plant and boiler system. Overall, the efficiency of CHP technologies can reach 80% or more, while simple-cycle electricity generation reaches only 30% and combined cycle generation typically achieves 50%. When considering both thermal and electric energy generation, CHP requires 40% less

⁹ Solar costs presented in this report are inclusive of the solar investment tax credit (ITC), but do not include solar production tax credits (PTC) or solar renewable energy credits (RECS).

energy input to achieve the same energy output as a separate plant and boiler system. Figure 1-1 illustrates this point.

Figure 1-1: Energy Efficiency: CHP vs. Separate Power Plant and Boiler¹⁰



Common technologies used in CHP applications and explored in this study include:

- Steam turbines
- Gas turbines
- Micro turbines
- Fuel Cells
- Internal combustion engines

Selecting a specific CHP technology depends on a number of factors, which include but are not limited to power requirements, the duty cycle, space constraints, thermal energy needs, emission regulations, fuel availability, utility prices, and interconnection issues. In general, internal combustion engines are the prime mover for systems under 500kW with gas turbines becoming progressively more popular as system size increases above that. Table 1-4 summarizes the CHP technologies evaluated in this study and their assumed operating parameters.

¹⁰ *Combined Heat and Power Potential for New York State*. Onsite Energy Corporation for NYSERDA, October 2002.

Table 1-4: CHP Technology Comparison¹¹

Parameter	Internal Combustion Engine	Gas Turbine	Steam Turbine	Micro-Turbine	Fuel Cell
Size (kW)	50-5,000	500-50,000	10-100,000	30-250	200-2,000
Electric Efficiency	28-39%	25-40% (simple) 40-60% (combined)	5-15%	25-28%	36-42%
Overall Efficiency	73-79%	64-72%	~80%	67-72%	62%-67%
Fuels	Natural gas, biogas, propane, liquid fuels	Natural gas, biogas, propane, distillate oil	All	Natural gas, biogas, propane, distillate oil	Hydrogen, natural gas, propane
NO _x Emissions (lb/MWh)	0.15-2.17	0.55-0.68	Function of boiler emissions	0.14-0.17	0.01-0.04
Uses for Heat Recovery	Hot water, low pressure steam, district heating	Direct heat, hot water, low or high pressure steam, district heating	Low or high pressure steam, district heating	Direct heat, hot water, low pressure steam	Hot water, low or high pressure steam
Thermal Output (Btu/kWh)	3,000-6,100	3,200-5,000	n/a	4,800-6,300	1,500-3,000
Useable Temp (°F)	200-500	500-1,100	n/a	400-650	140-700

Table 1-5 summarizes detailed CHP cost considerations and assumptions utilized in this analysis.

Table 1-5: Detailed CHP Cost Consideration Summary¹²

Technology Type	Fuel Type	Size (kW)	Installed System Cost (\$/W)	Waste Heat Utilization (kBtu/kWh)	Capacity Factor	System Lifetime (years)	O&M Costs (\$/kWh)
Fuel Cell	Natural Gas	175	\$6.31	4.17	0.71	10	\$0.04
	Natural Gas	500	\$5.58	6.02			\$0.04
	Biogas	800	\$5.71	8.71			\$0.03
	Natural Gas	1125	\$5.25	6.04			\$0.03
Gas Turbine	Natural Gas	2500	\$3.32	7.01	0.81	20	\$0.01
	Biogas	3000	\$2.32	12.40			

¹¹ *Combined Heat and Power Potential for New York State*. Onsite Energy Corporation for NYSERDA, October 2002. And *Combined Heat and Power Market Assessment*. ICF International for the California Energy Commission, April 2010.

¹² Natural gas fuel costs were assumed to be \$6.53/dekatherm; 2013 EIA Energy Outlook Assessment average industrial sector retail costs for years 2015 through 2025 in nominal dollars. The SWE ran additional CHP savings potential scenarios considering a conservative forecasted price for natural gas at \$5.75/dekatherm and a scenario based on the historically low price of natural gas (\$4.61/dekatherm) of the past five years. Findings are presented in Section 5.3.

Technology Type	Fuel Type	Size (kW)	Installed System Cost (\$/W)	Waste Heat Utilization (kBtu/kWh)	Capacity Factor	System Lifetime (years)	O&M Costs (\$/kWh)
	Natural Gas	3500	\$1.31	5.84			
Micro Turbine	Natural Gas	25	\$2.97	7.31	0.49	10	\$0.02
	Biogas	100	\$2.63	12.70			\$0.01
	Natural Gas	100	\$2.49	5.80			\$0.02
	Natural Gas	200	\$2.44	6.88			\$0.02
Reciprocating Engine	Natural Gas	150	\$2.21	4.38	0.40	20	\$0.02
	Natural Gas	350	\$1.94	4.47			\$0.02
	Biogas	1250	\$1.61	10.36			\$0.02
	Natural Gas	1250	\$1.64	4.39			\$0.01
	Natural Gas	3000	\$1.13	5.11			\$0.01
	Natural Gas	4500	\$1.13	4.95			\$0.01
Steam Turbine	Biogas	1500	\$1.12	4.52	0.90	25	\$0.004
		3500	\$0.48	4.57			\$0.004
		5500	\$0.43	4.39			\$0.004

1.3.3 Other Technologies Considered

The SWE team considered other DG technologies such as simple cycle landfill gas, animal waste gas, digester as well as small-scale wind (less than 500 kW systems). However, because these measures were found to not be cost-effective under PA's TRC rules and because these measures are not typically part of the DSM programs under Act 129 they were not further analyzed for technical potential.

1.4 Potential Savings Overview

Potential studies often distinguish between several types of energy efficiency potential: technical, economic, achievable, and program. However, because there are often important definitional issues between studies, it is important to understand the definition and scope of each potential estimate as it applies to this analysis.

The first two types of potential, technical and economic, provide a theoretical upper bound for energy generation from distributed technology equipment. Still, even the best-designed portfolio of programs is unlikely to capture 100% of the technical or economic potential. Therefore, achievable potential attempts to estimate what savings may realistically be achieved through market interventions, when it can be captured, and how much it would cost to do so. Figure 1-2 illustrates the four most common types of energy efficiency potential.

Figure 1-2: Types of Potential¹³

Not Technically Feasible	Technical Potential			
Not Technically Feasible	Not Cost-Effective	Economic Potential		
Not Technically Feasible	Not Cost-Effective	Market & Adoption Barriers	Achievable Potential	
Not Technically Feasible	Not Cost-Effective	Market & Adoption Barriers	Program Design, Budget, Staffing, & Time Constraints	Program Potential

1.5 Technical Potential

Technical potential is the theoretical maximum amount of energy use that could be generated by distributed generation resources, disregarding all non-engineering constraints such as cost-effectiveness and the willingness of end users to adopt the generation technologies. Technical potential is only constrained by factors such as technical feasibility and applicability of equipment.

1.5.1 Solar Photovoltaic Systems

Because the potential of solar photovoltaic is not limited by customer consumption or premise equipment consumption, the estimate of technical potential for solar photovoltaic systems in this report is based in part on the available roof area and consisted of the following steps:

- Step 1: Outcomes from the forecast disaggregation analysis were used to characterize the existing and new residential, commercial and industrial building stocks. Relevant characterized parameters included number of facilities, average number of floors, and average premise square footage.
- Step 2: The total available roof area feasible for installing solar PV systems was calculated. Relevant characterized parameters included share of pitched and flat roofs and unusable area due to other rooftop equipment.
- Step 3: Estimated the expected power density (kW per square foot of roof area).
- Step 4: Using PVWatts¹⁴ and measurement & verification (M&V) evaluations of solar PV systems, the SWE used its technical potential solar calculator to calculate energy generation/savings using researched system capacity factors from PVWatts and M&V reports.

Table 1-6 summarizes the main inputs used to estimate the available roof area for solar PV installations for the residential, commercial and industrial sectors.

¹³ Reproduced from "Guide to Resource Planning with Energy Efficiency." November 2007. US Environmental Protection Agency (EPA). Figure 2-1.

¹⁴ PVWatts estimates solar PV energy production and costs. Developed by the National Renewable Energy Laboratory. <http://pvwatts.nrel.gov/>

Table 1-6: Premise Characterization and Solar Photovoltaic System Assumptions

Variable	Unit	Residential	Commercial	Industrial
Sloped Roof Share	percentage	92%	10%	5%
Flat Roof Share	percentage	8%	90%	95%
Usable Sloped Roof	percentage	18%	18%	18%
Usable Flat Roof	percentage	70%	65%	65%
PV Density	W(DC)/sf	14.3	14.3	14.3

1.5.2 Combined Heat and Power and Biogas Systems

To estimate technical potential for CHP and biogas, the SWE team first calculated the average building consumption for each commercial and industrial segment. This was used to then estimate a savings share for each CHP technology based on its generation capacity. Those savings shares were then applied to the applicable share of the sector load to estimate technical potential. The core equation utilized in the technical potential analysis for each individual distributed generation technology is shown in Equation 1-2 below.

Equation 1-2: Core Equation for Combined Heat and Power Technical Potential



Where:

Total End Use MWh Sales by Building/Industry Type = the electricity used by each premise type in each market segment. The SWE Team obtained this premise consumption data from the Pennsylvania EDC customer data and the Pennsylvania Statewide Act 129 2014 Non-Residential End Use & Saturation Study¹⁵. This characterization was considered for two sizes of premises: premises with demand consumption ranging from 150kW to 1,250kW and premises with demand consumption larger than 1,250kW.

Applicability Factor = the fraction of premises where combined heat and power and distributed generation that is technically feasible. For example, a lack of consistent premise thermal loads or a lack of centralized thermal heating systems often result in a premise that is not technically feasible for a cost-effective combined heat and power installation.

Remaining Factor = the fraction of the premises remaining without distributed generation resources. The SWE reviewed and considered existing distributed generation resources for each EDC since 2000 from EIA form 861, Commonwealth of Pennsylvania datasets and, and EDC databases and reported savings.

Generation Share = the percentage reduction in existing or forecasted new electricity consumption resulting from new generation. In many cases, this share was limited by 100% of the premise consumption.

¹⁵ *Pennsylvania Statewide Commercial and Industrial End Use & Saturation Study*, Statewide Evaluation Team, April 18, 2012.

1.6 Economic Potential

Economic potential refers to the subset of the technical potential that is economically cost-effective (based on screening with the TRC) as compared to conventional supply-side energy resources. The SWE Team calculated the TRC benefit-cost ratios for this study according to the Pennsylvania PUC's TRC Orders. All technologies that were not found to be cost-effective based on the results of the TRC were excluded from further analysis. For instance, the SWE found that none of the solar PV technologies passed the TRC test, and were therefore not evaluated further. The SWE Team then readjusted and applied allocation factors to the remaining technologies that were cost-effective.

1.6.1 Total Resource Cost Test

The SWE Team utilized the 2009 and 2011 Pennsylvania PUC TRC Orders to determine the cost-effectiveness for distributed generation resources in this potential study. The TRC measures the net costs of a DSM program as a resource option based on the total costs of the technology/program, including both the participants' and the utility's costs.

In general, the benefits calculated in the TRC usually include the avoided electric supply costs for the periods when there is a premise electric load reduction due to generation; savings of other resources such as fossil fuels and water; economic benefits of alternative energy credits; and applicable federal and state energy efficiency tax credits. However, consistent with Act 129 and the 2013 PA TRC Order, only the electricity savings and avoided operation and maintenance costs were used to calculate the benefits for the PA TRC.¹⁶

Costs in the TRC are the program costs paid by the utility (or program administrator) and the participants. Thus, all equipment costs, installation, operation and maintenance, and program administration costs are included in this test regardless of who pays for them. Net fuel costs are also included by estimating the expected operating fuel costs for CHP technologies and removing the fuel costs to operate a traditional steam boiler serving the premise requirements of building and process heat loads. These non-incentive costs were also included in the development of program acquisitions costs and estimates of the program costs related to achievable potential savings.

The PA TRC Order limits measure lives to a maximum of 15 years when calculating the TRC. Although many distributed generation resources may have longer effective useful lives (EUL), the measure lives and the associated benefits are capped at a maximum of 15 years for purposes of cost-effectiveness calculations.

1.6.2 Avoided Costs

The SWE Team based the avoided cost forecasts utilized for measure cost-effective screening and for reporting potential benefits on the Pennsylvania PUC's 2013 TRC Order and each EDC's avoided cost structure, including energy, transmission, distribution, and generation capacity avoided costs. Each EDC provided the latest available electric generation avoided cost projections, while the SWE Team developed the transmission and distribution (T&D) avoided cost projections used in this study. According to the latest PUC TRC Order, the discount rate used in the calculation of the Pennsylvania TRC is the utility's after-tax weighted average cost of capital. Avoided energy costs were differentiated by time and season where possible. Details on each EDC's avoided costs can be found in Appendix B.

¹⁶ Tax credits, while traditionally a benefit in the TRC are treated as a reduction to costs in the PA TRC, according to the TRC Order.

1.7 Achievable Potential

Achievable potential is the amount of energy that can realistically be saved given various market barriers. Achievable potential takes into account real-world barriers to encouraging end users to implement distributed generation technologies; the non-equipment costs of delivering programs (for administration, marketing, analysis, and EM&V); and the capability of programs and administrators to boost program activity over time. Barriers include financial, customer awareness and willingness to participate in programs, technical constraints, and other barriers the “program intervention” is modeled to overcome. Additional considerations include political and/or regulatory constraints. While many different incentive scenarios could be modeled, the number of achievable potential scenarios for this study was limited to the two described below due to the available budget for this potential study.

- **Maximum Achievable** estimates achievable potential on paying incentives equal to 50% of technology incremental costs¹⁷.
- **Base Achievable** estimates achievable potential on EDCs paying incentive levels at an average of \$0.05/Kwh-saved, which is based on current Act 129 EDC distributed generation programs for the non-residential sector (on average equal to 16 percent of incremental equipment costs).

The SWE Team analyzed the two selected achievable potential scenarios with different anticipated penetration curves or market acceptance models for each incentive level. In the maximum achievable scenario, the penetration curve is based on a penetration assuming 50% funding of the technology incremental costs, while the base achievable scenario penetration curve is based on a business-as-usual funding of approximately 16% of technology incremental costs.

2 CHARACTERIZATION OF PENNSYLVANIA SERVICE AREAS & PHASE I/II PROGRAM OFFERINGS

The following section provides a brief overview of the seven EDC service areas included under Act 129 and their forecasted load.

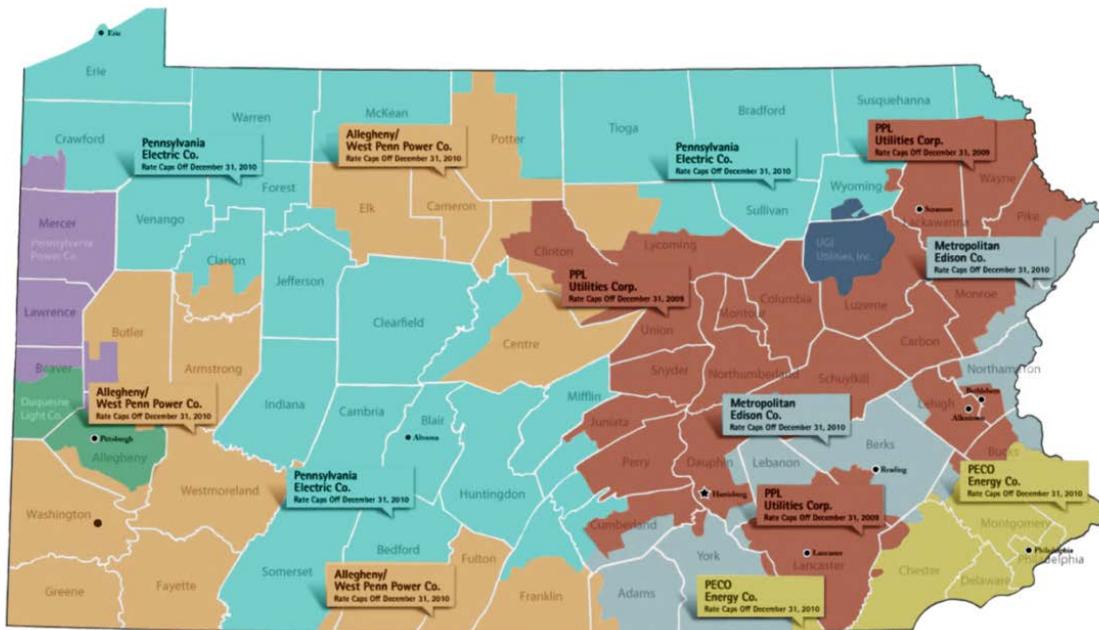
2.1 EDC Areas

There are currently eleven EDCs that provide electric energy to Pennsylvania customers. The focus of this analysis is on the seven largest EDCs including: Duquesne Light Company (Duquesne), Metropolitan Edison Company (Met-Ed), Pennsylvania Electric Company (Penelec), Pennsylvania Power Company (Penn Power), West Penn Power Company (West Penn), PECO Energy Company (PECO), and PPL Electric Utilities Corporation (PPL).

Figure 2-1 shows the service area for each of the seven Pennsylvania EDCs included in this study. Each EDC’s territory varies in size and demographics.

¹⁷ The SWE team considered incentives equal to 100% of incremental costs for distributed generation technologies to be well outside of industry norms and would result in prohibitively high acquisition costs; consequently a 50% incentive value was utilized for the maximum achievable scenario.

Figure 2-1: Pennsylvania EDC Service Territory Map



2.2 2010 Historical Load & Statewide Load Forecast

2.2.1 2010 Historical Load

Table 2-1 presents the forecasted energy (MWh) sales by EDC and Customer Class for the period beginning June 2009 and ending May 2010. The SWE has selected the load of this year to be consistent with Act 129 of 2008, which required the PA EDCs to reduce electric consumption at least one percent (1%) by May 31, 2011 and three percent by May 31, 2013, relative to their forecast load for the period June 1, 2009 through May 31, 2010. Savings targets for Phase II of Act 129 were also established based on the 2009/2010 forecast load. Consequently, the DG potential estimates in this report have also been compared to the 2009/2010 forecast load for each EDC.

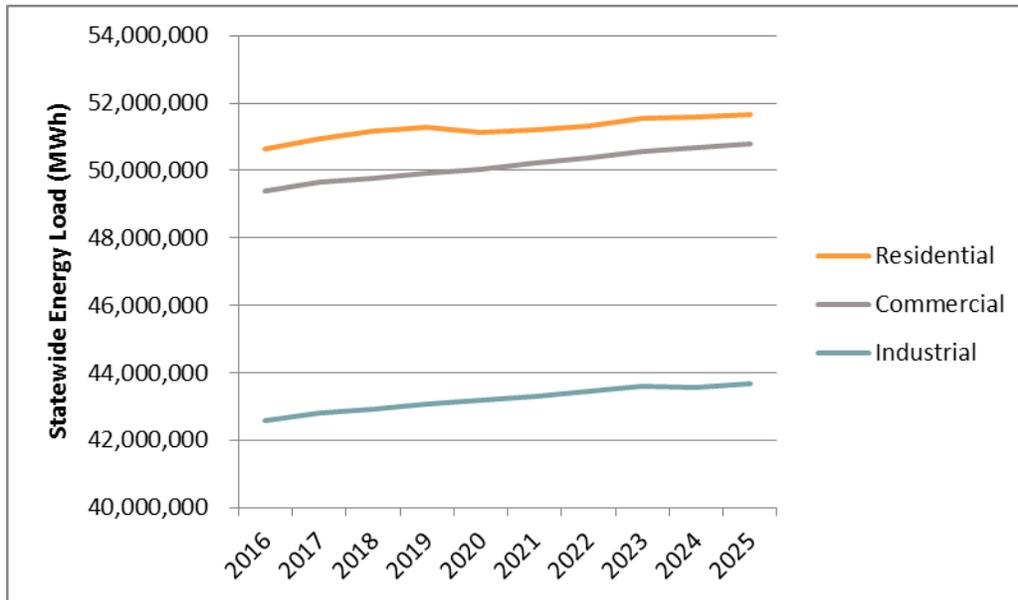
Table 2-1: 2009/2010 Energy (MWh) Forecast Sales by EDC and Customer Sector

EDC	Residential	Commercial	Industrial	Total
Duquesne	4,188,344	7,081,429	2,815,727	14,085,500
FE: Met-Ed	6,199,448	4,126,943	4,538,643	14,865,033
FE: Penelec	4,882,328	4,261,919	5,255,052	14,399,300
FE: Penn Power	1,845,141	1,162,174	1,765,619	4,772,933
FE: West Penn	7,931,627	5,533,913	7,473,127	20,938,667
PECO	14,009,363	20,961,102	4,415,535	39,386,000
PPL	15,136,306	12,829,784	10,248,276	38,214,367
Statewide	54,192,558	55,957,264	36,511,978	146,661,800

2.2.2 Statewide Load Forecast

As discussed earlier, a critical first step in the modeling process is to disaggregate each EDC’s load by sector. As shown in Figure 2-2, the energy (MWh) sales forecast grows at a compounded annual growth rate of 0.24% per year across all sectors over the 10-year forecast horizon.

Figure 2-2: Statewide Energy (MWh) Sales Forecast by Sector from June 2016 – May 2025



3 SUMMARY OF DG SAVINGS POTENTIAL FINDINGS

This section of the report presents the estimates of DG technical, economic, and achievable potential of all DG technologies (solar PV and CHP) for the Commonwealth of Pennsylvania as well as for each EDC service area. Electric DG savings, cost estimates, and benefit-cost estimates are presented in this section.

3.1 Summary

Table 3-1 summarizes electric DG savings potential for all sectors for all seven EDCs combined across the state. The five-year (2020) potential under the base achievable scenario amounts to 413,508 MWh (47.2 MW) by 2020, representing a possible 0.3% reduction of total 2010 energy sales.¹⁸

Table 3-1: Statewide Cumulative Energy & Demand DG Savings Potential by Scenario by Year

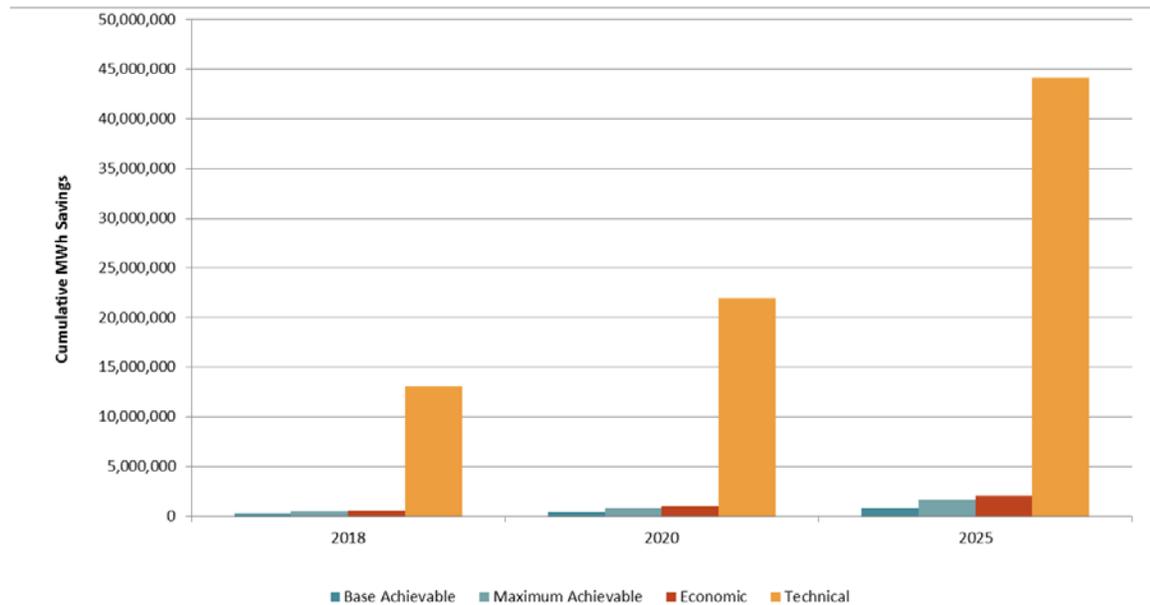
	2018	2020	2025	Average Annual
Cumulative Savings Potential - MWh				
Technical	13,117,733	21,924,076	44,145,324	4,414,532
Economic	617,949	1,033,036	2,079,790	207,979
Maximum Achievable	494,476	826,624	1,664,225	166,422
Base Achievable	247,355	413,508	832,506	83,251
Cumulative Energy Savings Potential - % of 2010 Total Load				
Technical	8.9%	14.9%	30.1%	3.0%
Economic	0.4%	0.7%	1.4%	0.1%
Maximum Achievable	0.3%	0.6%	1.1%	0.1%
Base Achievable	0.2%	0.3%	0.6%	0.1%

¹⁸ While the SWE only assessed DG savings potential for eligible buildings (based on 2012 annual kWh consumption), the % of sales metric is calculated based on the 2010 kWh sales of all buildings (eligible and non-eligible buildings).

	2018	2020	2025	Average Annual
Demand Savings Potential – Summer Peak MW				
Technical	2,384.9	3,985.8	7,997.4	799.7
Economic	70.5	117.9	237.4	23.7
Maximum Achievable	56.4	94.4	190.0	19.0
Base Achievable	28.2	47.2	95.0	9.5
Cumulative Demand Savings Potential - % of 2014 Total Load				
Technical	13.0%	21.7%	43.5%	4.4%
Economic	0.4%	0.6%	1.3%	0.1%
Maximum Achievable	0.3%	0.5%	1.0%	0.1%
Base Achievable	0.2%	0.3%	0.5%	0.1%
Avoided CO₂ Savings Potential – Metric Tons				
Technical	8,583,252	14,344,723	28,883,849	2,888,385
Economic	223,826	374,173	753,315	75,331
Maximum Achievable	179,103	299,409	602,794	60,279
Base Achievable	89,594	149,775	301,540	30,154

Figure 3-1 summarizes the same potential by scenario by year.

Figure 3-1: Statewide Cumulative DG Energy (MWh) Potential by Scenario by Year



3.2 DG Potential by Sector

Table 3-2 presents the cumulative potential by customer class for all DG technologies. Five-year cumulative technical potential in the residential sector is estimated at just over 3.5 million MWh, representing a 2.4% reduction in 2010 sector load. Five-year cumulative technical potential in the commercial and industrial sector is estimated to achieve a 7.8% and 4.7% reduction in sector load respectively.

Table 3-2: 2020 Statewide Cumulative DG Potential by Sector by Scenario by Year

	Residential	Commercial	Industrial
2020 Cumulative Energy Savings Potential - MWh			
Technical	3,520,779	11,458,086	6,945,211
Economic	0	280,685	752,351
Max Achievable	0	224,585	602,039
Base Achievable	0	112,330	301,178
2020 Cumulative Energy Savings Potential - % of 2010 Total Sector Load			
Technical	2.4%	7.8%	4.7%
Economic	0.0%	0.2%	0.5%
Max Achievable	0.0%	0.2%	0.4%
Base Achievable	0.0%	0.1%	0.2%
2020 Cumulative Demand Savings Potential - MW			
Technical	735.0	2,171.7	1,079.1
Economic	0.0	32.0	85.9
Max Achievable	0.0	25.6	68.7
Base Achievable	0.0	12.8	34.4

Figure 3-2 and shows the cumulative technical potential distribution by sector in 2020, while Figure 3-3 shows the same potential by sector under the base achievable scenario. Since there are no Solar PV technologies that pass cost-effectiveness, there are no residential savings in the base achievable scenario. The industrial sector accounts for 72.8% of base achievable savings in 2020, and the commercial sector accounts for 27.2% of 2020 savings.

Figure 3-2: Statewide 2020 DG Savings Distribution by Customer Sector, Technical Scenario

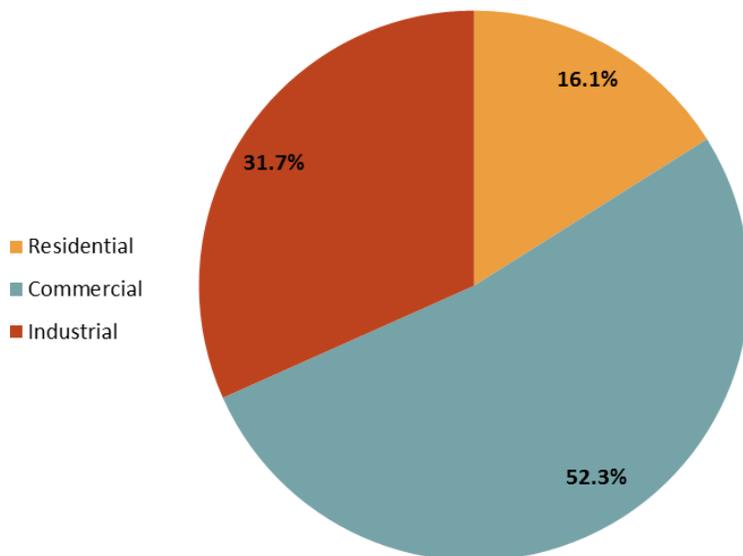
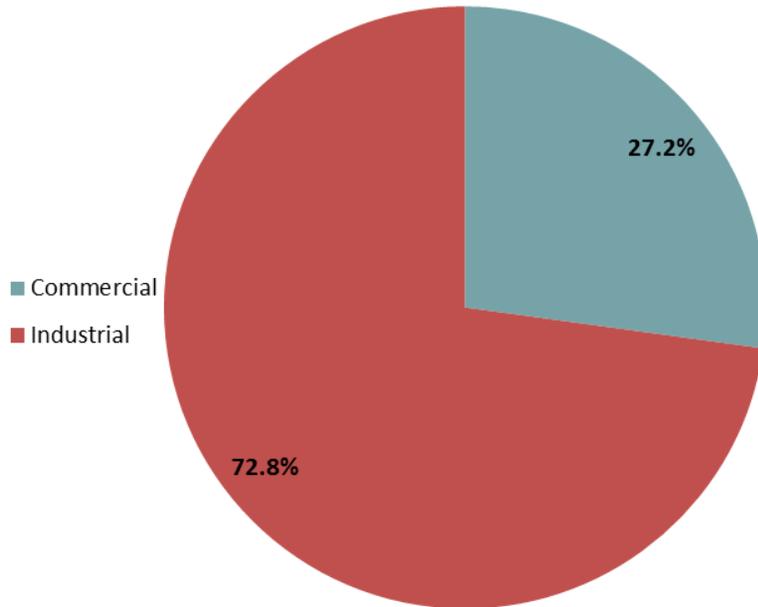


Figure 3-3: Statewide 2020 DG Savings Distribution by Customer Sector, Base Achievable Scenario



3.3 DG Potential by Technology Type

Figure 3-4 shows the DG potential by technology type for the technical scenario in 2020. Solar PV technologies account for more than 71% of technical potential in 2020 with CHP accounting for 28.5%. Cost-effective achievable potential was only found with CHP technologies.

Figure 3-4: Statewide 2020 DG Savings Distribution by Technology, Technical Scenario

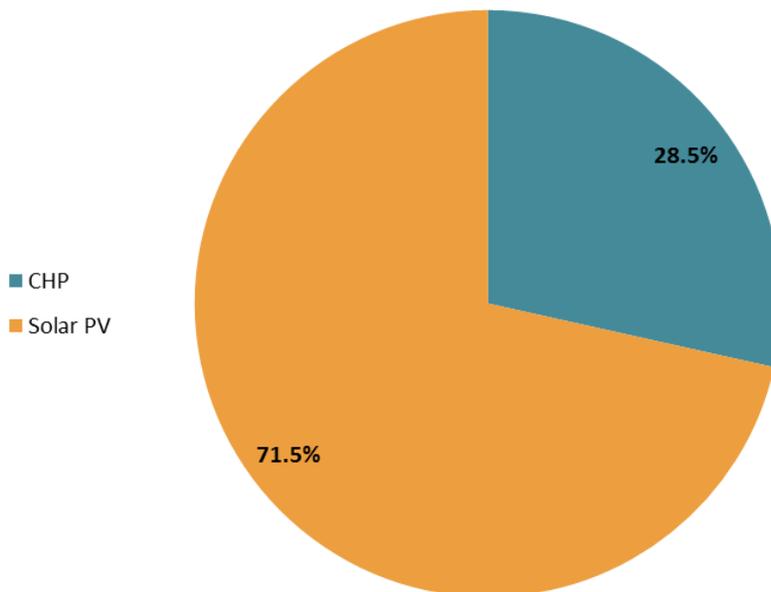


Table 3-3 provides the DG potential by technology type for 2018, 2020, and 2025. CHP technologies were found to be the only cost effective technologies and thus are the only technology with economic and achievable potential.

Table 3-3: Statewide Cumulative DG Potential by Technology Type by Scenario

DG Technology	Scenario	2018	2020	2025	Average Annual
		Cumulative Savings Potential - MWh			
Combined Heat & Power (CHP)	Technical	3,736,051	6,245,974	12,576,696	1,257,670
	Economic	617,949	1,033,036	2,079,790	207,979
	Max. Achievable	494,476	826,624	1,664,225	166,422
	Base Achievable	247,355	413,508	832,506	83,251
Solar PV	Technical	9,381,682	15,678,102	31,568,628	3,156,863
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Total	Technical	13,117,733	21,924,076	44,145,324	4,414,532
	Economic	617,949	1,033,036	2,079,790	207,979
	Max. Achievable	494,476	826,624	1,664,225	166,422
	Base Achievable	247,355	413,508	832,506	83,251

3.4 DG Potential by EDC

Table 3-4 summarizes the DG potential by EDC by scenario by year. In the base achievable scenario, the SWE found that PECO and Duquesne show the largest potential for DG potential at 1.1% and 1.0% of 2010 energy sales respectively. This occurred because technologies that did pass the TRC test had benefits that only moderately out-weighed the costs; and with PECO and Duquesne having the highest avoided cost rates a greater number of CHP technologies passed the TRC test for PECO and Duquesne as compared to the other EDCs.

Table 3-4: Cumulative DG Potential (MWh) by EDC by Scenario by Year

	2018	2020	2025	Average Annual
Duquesne				
Technical	1,414,971	2,363,139	4,750,199	475,020
Economic	72,902	121,836	245,106	24,511
Maximum Achievable	58,338	97,496	196,140	19,614
Base Achievable	29,185	48,776	98,125	9,813
Base Achievable % of 2010 Load	0.3%	0.5%	1.0%	0.1%
First Energy: Met Ed				
Technical	1,180,526	1,968,854	3,943,500	394,350
Economic	49,309	82,265	164,786	16,479
Maximum Achievable	39,453	65,822	131,849	13,185
Base Achievable	19,733	32,921	65,945	6,594
Base Achievable % of 2010 Load	0.1%	0.2%	0.4%	0.0%
First Energy: Penelec				
Technical	1,364,352	2,276,020	4,561,240	456,124
Economic	51,251	85,507	171,288	17,129
Maximum Achievable	41,010	68,421	137,062	13,706
Base Achievable	20,515	34,227	68,563	6,856

	2018	2020	2025	Average Annual
Base Achievable % of 2010 Load	0.1%	0.2%	0.5%	0.0%
First Energy: Penn Power				
Technical	365,306	611,740	1,237,836	123,784
Economic	13,205	22,037	44,172	4,417
Maximum Achievable	10,567	17,634	35,346	3,535
Base Achievable	5,286	8,822	17,682	1,768
Base Achievable % of 2010 Load	0.1%	0.2%	0.4%	0.0%
First Energy: WPP				
Technical	1,514,357	2,532,275	5,105,020	510,502
Economic	81,360	136,079	274,301	27,430
Maximum Achievable	65,104	108,890	219,493	21,949
Base Achievable	32,568	54,471	109,800	10,980
Base Achievable % of 2010 Load	0.2%	0.3%	0.5%	0.1%
PECO				
Technical	3,957,446	6,614,815	13,321,825	1,332,183
Economic	210,205	350,953	704,290	70,429
Maximum Achievable	168,207	280,834	563,577	56,358
Base Achievable	84,147	140,489	281,933	28,193
Base Achievable % of 2010 Load	0.3%	0.6%	1.1%	0.1%
PPL				
Technical	3,320,775	5,557,233	11,225,704	1,122,570
Economic	139,718	234,359	475,849	47,585
Maximum Achievable	111,797	187,526	380,758	38,076
Base Achievable	55,922	93,802	190,458	19,046
Base Achievable % of 2010 Load	0.2%	0.4%	0.8%	0.1%
Statewide Total				
Technical	13,117,733	21,924,076	44,145,324	4,414,532
Economic	617,949	1,033,036	2,079,790	207,979
Maximum Achievable	494,476	826,624	1,664,225	166,422
Base Achievable	247,355	413,508	832,506	83,251
Base Achievable % of 2010 Load	0.2%	0.3%	0.6%	0.1%

3.5 DG Benefits and Costs

Table 3-5 provides the economic impacts by EDC for the DG achievable scenarios. Overall, capturing the estimated potential would result in a net present value of more than \$266 million in lifetime benefits for an investment of \$230 million (net present value) in the base achievable potential scenario. The Commonwealth of Pennsylvania would capture approximately \$36 million in net benefits and a TRC ratio of 1.2 by securing the volume of base achievable CHP. Greater benefits would be realized if Act 129 legislation did not limit technology measure benefits to a maximum of 15 years.

Table 3-5: Five-Year DG TRC Benefit-Cost Ratios by Achievable Scenario, by EDC

	NPV Costs (Million \$)	NPV Benefits (Million \$)	NPV Net Benefits (Million \$)	TRC B/C Ratio
Maximum Achievable Potential				
Duquesne	\$57.7	\$69.7	\$12.0	1.2
First Energy: Met Ed	\$37.6	\$41.7	\$4.1	1.1
First Energy: Penelec	\$38.9	\$41.5	\$2.5	1.1
First Energy: Penn Power	\$7.3	\$8.6	\$1.3	1.2
First Energy: WPP	\$54.8	\$62.1	\$7.3	1.1
PECO	\$158.8	\$194.1	\$35.3	1.2
PPL	\$105.3	\$114.7	\$9.4	1.1
Statewide	\$460.5	\$532.4	\$71.9	1.2
Base Achievable Potential				
Duquesne	\$28.9	\$34.8	\$6.0	1.2
First Energy: Met Ed	\$18.8	\$20.9	\$2.1	1.1
First Energy: Penelec	\$19.5	\$20.7	\$1.3	1.1
First Energy: Penn Power	\$3.7	\$4.3	\$0.6	1.2
First Energy: WPP	\$27.4	\$31.1	\$3.7	1.1
PECO	\$79.4	\$97.1	\$17.7	1.2
PPL	\$52.7	\$57.4	\$4.7	1.1
Statewide	\$230.3	\$266.3	\$36.0	1.2

Table 3-6 represents the total program expenses paid by the EDCs to realize 5-year (2020) achievable savings estimates under the maximum and base achievable scenarios. The first-year MWh acquisition cost is between \$117/MWh in the maximum achievable scenario assuming 50% incentives for all technologies, and \$60/MWh in the base achievable scenario assuming a 16% incentive. The estimated EDC acquisition costs include incentive costs as well as non-incentive costs such as marketing, administrative costs, and EM&V.

Table 3-6: Five-Year (2016 -2020) DG Acquisition Costs (TRC) by Achievable Scenario by EDC

EDC	Program Costs (\$Million)	Program Savings (MWh)	Acquisition Costs (\$/MWh)	Program Costs (\$Million)	Program Savings (MWh)	Acquisition Costs (\$/MWh)
	Maximum Achievable			Base Achievable Scenario		
Duquesne	\$6.8	58,338	\$116.74	\$1.8	29,185	\$60.26
First Energy: Met Ed	\$4.7	39,453	\$118.20	\$1.2	19,733	\$60.7
First Energy: Penelec	\$5.3	41,010	\$130.12	\$1.3	20,515	\$64.4
First Energy: Penn Power	\$0.9	10,567	\$83.56	\$0.3	5,286	\$49.9
First Energy: WPP	\$7.2	65,104	\$110.67	\$1.9	32,568	\$58.4
PECO	\$18.7	168,207	\$111.02	\$4.9	84,147	\$58.5
PPL	\$14.6	111,797	\$130.31	\$3.6	55,922	\$64.6
Statewide	\$58.1	494,476	\$117.58	\$15.0	247,355	\$60.53

4 SOLAR PHOTOVOLTAIC SAVINGS POTENTIAL

This section of the report presents the estimates of solar photovoltaic (solar PV) technical potential for the Commonwealth of Pennsylvania.

4.1 Summary

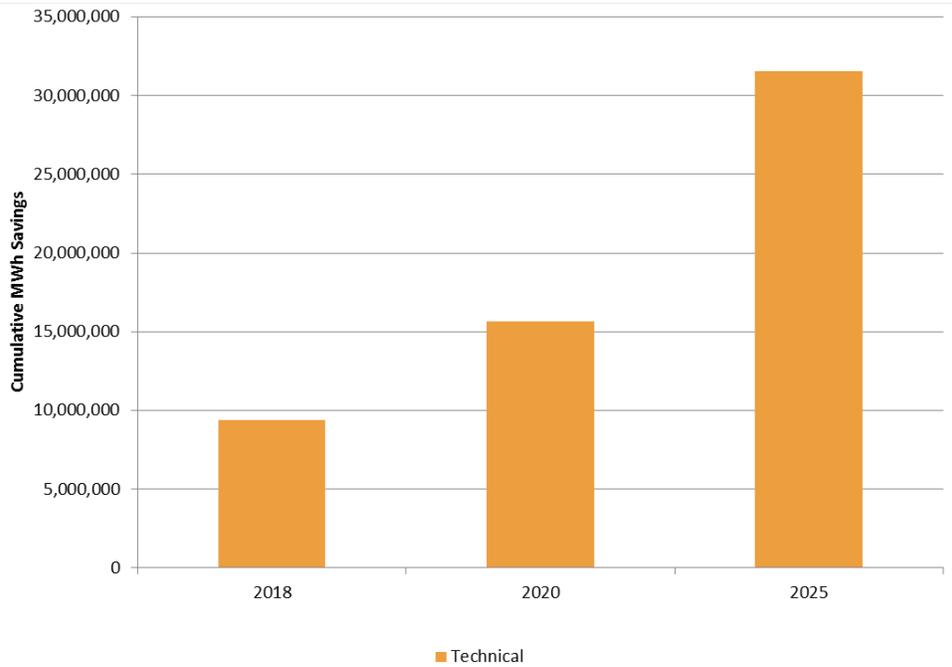
The five-year cumulative potential under the technical scenario amount to 15,678,102 MWh (3,273 MW) representing a possible 10.7% reduction of 2010 energy sales. The SWE found solar PV to be not cost-effective under the guidelines used by the TRC Order in PA; therefore no savings potential is shown for the economic scenario or either achievable scenario. Table 4-1 summarizes the SWE's findings.

Table 4-1: Statewide Cumulative Energy & Demand Solar PV Savings Potential by Scenario, by Year

	2018	2020	2025	Average Annual
Cumulative Savings Potential - MWh				
Technical	9,381,682	15,678,102	31,568,628	3,156,863
Economic	0	0	0	0
Maximum Achievable	0	0	0	0
Base Achievable	0	0	0	0
Cumulative Energy Savings Potential - % of 2010 Total Load				
Technical	6.4%	10.7%	21.5%	2.2%
Economic	0.0%	0.0%	0.0%	0.0%
Maximum Achievable	0.0%	0.0%	0.0%	0.0%
Base Achievable	0.0%	0.0%	0.0%	0.0%
Demand Savings Potential – Summer Peak MW				
Technical	1,958	3,273	6,562	656
Economic	0	0	0	0
Maximum Achievable	0	0	0	0
Base Achievable	0	0	0	0
Cumulative Demand Savings Potential - % of 2014 Total Load				
Technical	10.7%	17.8%	35.7%	3.6%
Economic	0.0%	0.0%	0.0%	0.0%
Maximum Achievable	0.0%	0.0%	0.0%	0.0%
Base Achievable	0.0%	0.0%	0.0%	0.0%
Avoided CO₂ Savings Potential – Metric Tons				
Technical	7,264,071	12,139,278	24,443,033	2,444,303
Economic	0	0	0	0
Maximum Achievable	0	0	0	0
Base Achievable	0	0	0	0

Figure 4-1 summarizes the same technical solar PV potential across all sectors for all seven EDCs for the 2018, 2020 and 2025 time horizon.

Figure 4-1: Statewide Cumulative Solar PV Potential by Scenario, by Year



4.2 Solar PV Potential by Sector

Figure 4-2 summarizes the distribution of five-year savings potential by sector under the technical scenario while Table 4-2 details the estimated savings potential by sector, by scenario, by year.

Figure 4-2: Statewide 2020 Solar PV Savings Distribution by Sector, Technical Scenario

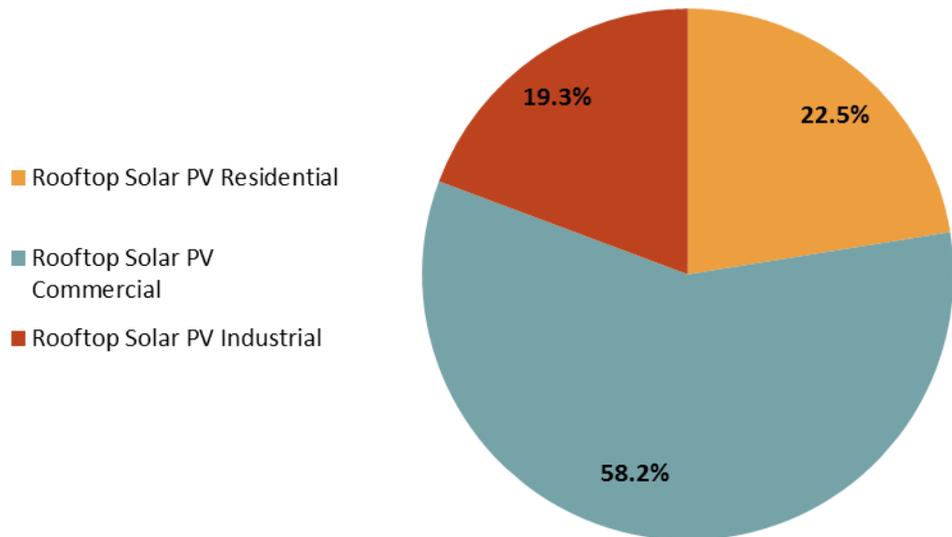


Table 4-2: Statewide Solar PV Potential by Sector by Scenario by Year

End Use	Scenario	2018	2020	2025	Average Annual
		Cumulative Savings Potential - MWh			
Rooftop Solar PV (Residential)	Technical	2,102,328	3,520,779	7,126,937	712,694
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Rooftop Solar PV (Commercial)	Technical	5,464,902	9,130,686	18,374,559	1,837,456
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Rooftop Solar PV (Industrial)	Technical	1,814,452	3,026,637	6,067,132	606,713
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Total	Technical	9,381,682	15,678,102	31,568,628	3,156,863
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0

4.3 Solar PV Benefits and Costs

The SWE found there to be no cost-effective potential attainable in Pennsylvania for solar PV under the TRC rules. Table 4-3 summarizes the average first-year (2016) TRC ratios by sector by EDC for solar installations. The average statewide TRC ratio for residential and nonresidential rooftop solar installations was estimated at 0.29 and 0.31 respectively. Because the SWE did not find any cost-effective solar under the PA TRC Order, the acquisition costs associated with solar PV were not analyzed.

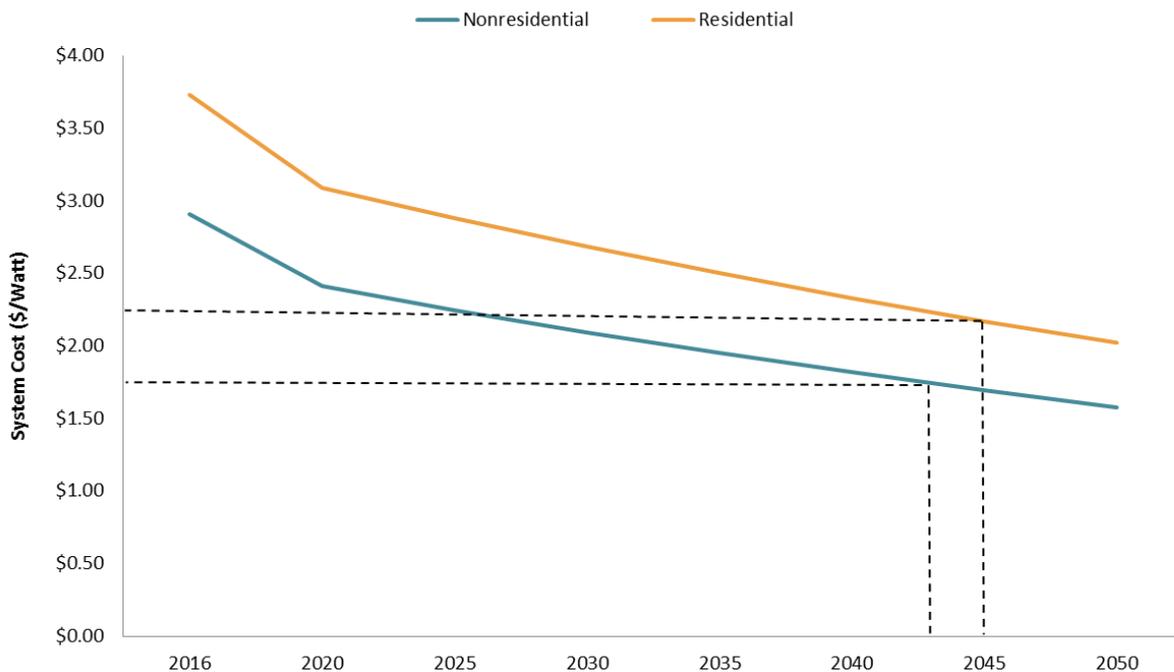
Table 4-3: 2016 Solar PV TRC Benefit-Cost Ratios by Sector, by EDC

	Residential	Nonresidential
	TRC Ratio	
Duquesne	0.33	0.36
First Energy: Met Ed	0.30	0.32
First Energy: Penelec	0.31	0.34
First Energy: Penn Power	0.29	0.31
First Energy: WPP	0.23	0.25
PECO	0.29	0.31
PPL	0.27	0.29
Statewide Average	0.29	0.31

To provide further insight on when solar PV might become cost effective in Pennsylvania under the TRC rules, the SWE conducted market research on the declining cost of rooftop solar PV over the next 35

years. Based on findings from a 2012 report by the National Renewable Energy Lab (NREL)¹⁹, solar PV module costs are estimated to decline at a rate of 4.6% until 2020 and then continue to decline at 1.4% after 2020. The Balance of System (BoS) costs were estimated to decline 55% by 2030. The SWE then ran various cost-effectiveness scenarios by adjusting rooftop solar PV costs over various time horizons to see at what cost and in what year rooftop solar PV would become cost effective (holding energy production constant). The SWE’s analysis estimates that by the year 2043 nonresidential rooftop solar could become cost effective at an average total system installed cost of \$1.74/watt, while residential rooftop solar could become cost effective in 2045 at an average total system cost of \$2.17/watt. Figure 4-3 below illustrates the SWE’s projections of total system cost reductions for rooftop solar, and the point (dotted lines) at which these systems become cost-effective in PA with a TRC value greater than 1.0.

Figure 4-3: Solar PV System Cost Declination & Cost- Effectiveness Thresholds



5 COMBINED HEAT & POWER

This section of the report presents the estimates of CHP technical, economic, and achievable potential for the Commonwealth of Pennsylvania. CHP potential, cost estimates, and benefit-cost estimates are presented in this section.

5.1 Summary

The five-year cumulative potential for CHP technologies under the base achievable scenario amount to 413,508 MWh (58.7 MW) representing a possible 0.4% reduction of 2010 energy sales in the commercial and industrial sectors. Table 5-1 summarizes the SWE’s findings.

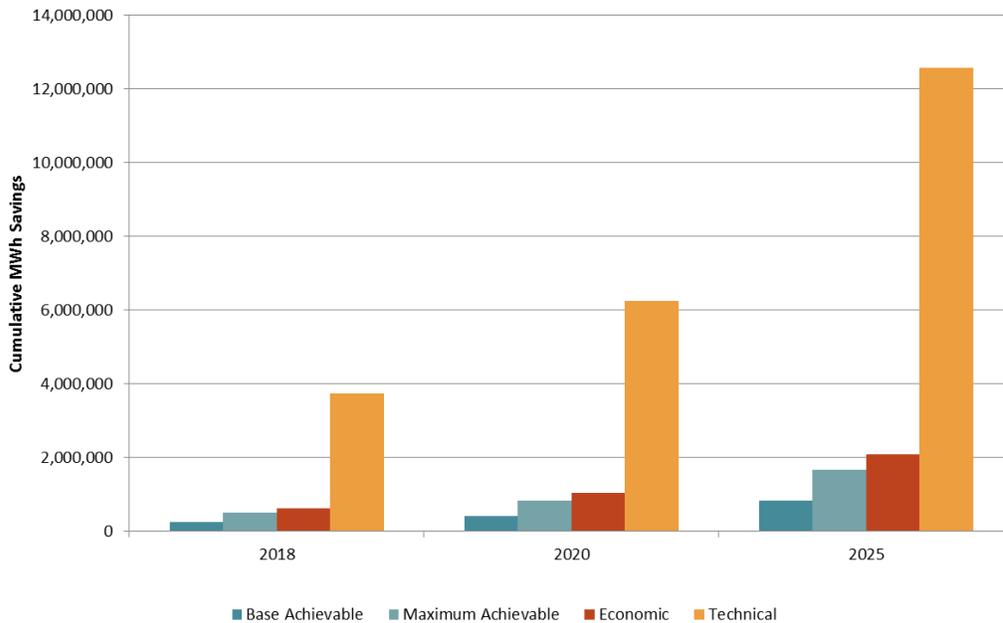
¹⁹ National Renewable Energy Lab (NREL). 2012a. Photovoltaic (PV) Pricing Trends: Historical, Recent, and Near-Term Projections. Technical Report DOE/GO-102012-3829

Table 5-1: Statewide Cumulative Energy & Demand CHP Potential by Scenario, by Year

	2018	2020	2025	Average Annual
Cumulative Savings Potential - MWh				
Technical	3,736,051	6,245,974	12,576,696	1,257,670
Economic	617,949	1,033,036	2,079,790	207,979
Maximum Achievable	494,476	826,624	1,664,225	166,422
Base Achievable	247,355	413,508	832,506	83,251
Cumulative Energy Savings Potential - % of 2010 Commercial & Industrial Load				
Technical	4.0%	6.8%	13.6%	1.4%
Economic	0.7%	1.1%	2.2%	0.2%
Maximum Achievable	0.5%	0.9%	1.8%	0.2%
Base Achievable	0.3%	0.4%	0.9%	0.1%
Demand Savings Potential – Summer Peak MW				
Technical	426.5	713.0	1,435.7	143.6
Economic	70.5	117.9	237.4	23.7
Maximum Achievable	56.4	94.4	190.0	19.0
Base Achievable	28.2	47.2	95.0	9.5
Cumulative Demand Savings Potential - % of 2010 Load				
Technical	2.3%	3.9%	7.8%	0.8%
Economic	0.4%	0.6%	1.3%	0.1%
Maximum Achievable	0.3%	0.5%	1.0%	0.1%
Base Achievable	0.2%	0.3%	0.5%	0.1%
Avoided CO₂ Savings Potential – Metric Tons				
Technical	1,359,597	2,272,990	4,576,820	457,682
Economic	224,880	375,935	756,862	75,686
Maximum Achievable	179,946	300,819	605,633	60,563
Base Achievable	90,016	150,481	302,959	30,296

Figure 5-1 summarizes the same CHP savings potential across all sectors for all seven EDCs combined across the state in the 2018, 2020 and 2025 time horizons.

Figure 5-1: Statewide Cumulative CHP Potential by Scenario by Year



5.2 CHP Potential by Technology Type

Figure 5-2 summarizes the distribution of five-year savings potential by technology under the technical scenario. Natural gas reciprocating engines were found to have the largest share of energy savings at 28.4% of all CHP 2020 cumulative technical potential followed by gas turbines at 21.2% of technical potential. Table 5-2 details the estimated 2020 cumulative CHP savings potential by technology type, by scenario by year. Of note is that steam turbine was the only technology to be found cost-effective under the PA TRC calculation, and thus show economic or achievable potential. The SWE team found there to be 413,508 MWh of cumulative energy savings by 2020 under the base achievable scenario for steam turbines.

Figure 5-2: Statewide 2020 Savings Distribution by CHP Technology, Technical Scenario

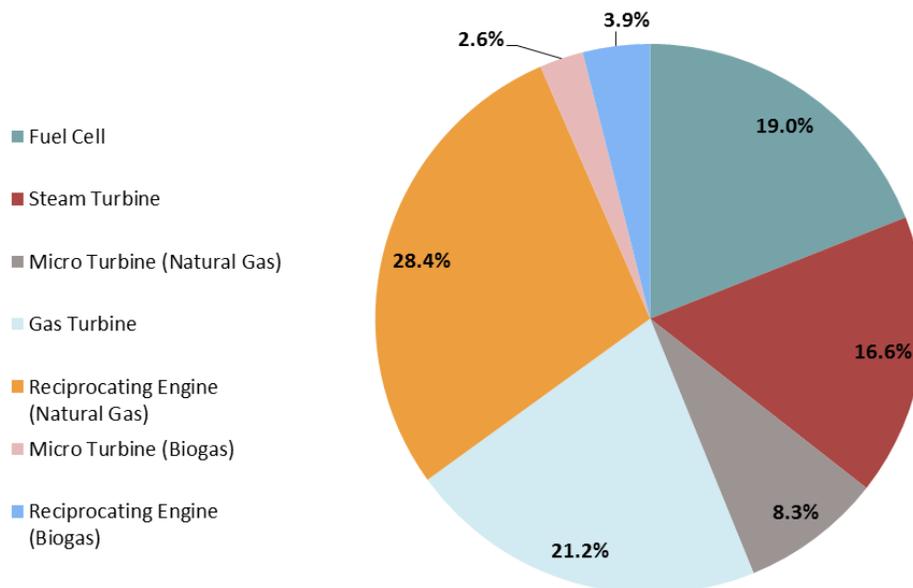


Table 5-2: Statewide Potential by CHP Technology Type by Scenario by Year

Technology Type	Scenario	2018	2020	2025	Average Annual
		Cumulative Savings Potential - MWh			
Fuel Cell	Technical	709,718	1,186,681	2,390,303	239,030
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Steam Turbine	Technical	619,319	1,035,315	2,084,316	208,432
	Economic	617,949	1,033,036	2,079,790	207,979
	Max. Achievable	494,476	826,624	1,664,225	166,422
	Base Achievable	247,355	413,508	832,506	83,251
Micro Turbine (Natural Gas)	Technical	309,260	517,067	1,041,369	104,137
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Gas Turbine	Technical	791,323	1,322,454	2,660,368	266,037
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Reciprocating Engine (Natural Gas)	Technical	1,062,497	1,776,601	3,578,864	357,886
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Micro Turbine (Biogas)	Technical	96,426	161,221	324,706	32,471
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Reciprocating Engine (Biogas)	Technical	147,508	246,635	496,770	49,677
	Economic	0	0	0	0
	Max. Achievable	0	0	0	0
	Base Achievable	0	0	0	0
Total	Technical	3,736,051	6,245,974	12,576,696	1,257,670
	Economic	617,949	1,033,036	2,079,790	207,979
	Max. Achievable	494,476	826,624	1,664,225	166,422
	Base Achievable	247,355	413,508	832,506	83,251

5.3 Natural Gas Cost Scenario Analysis

The cost effectiveness of some CHP technologies is dependent, in part, on the cost of natural gas needed to fuel and operate them. Given the volatility in the natural gas market, the SWE ran two additional scenarios to help frame the available achievable potential given variations in the price of natural gas. As mentioned earlier, the SWE utilized the 2013 EIA Energy Outlook Assessment's average industrial sector retail costs for years 2015 through 2025 to provide the most likely cost of natural gas during this study horizon (\$6.53/dekatherm). It is at this natural gas price that the savings summarized in Section 5.1 and

Section 5.2 is associated with. Natural gas prices, however, have been at historically low levels the past several years; and while nearly all industry projections have the price of natural gas increasing going forward, the SWE ran a potential scenario with the assumption that natural gas prices would stay similar to their past five-year average cost of \$4.61/dekatherm. Finally, the SWE estimated the associated potential if the cost of natural gas increased at a more conservative rate to an average of \$5.75/dekatherm for C&I customers. Table 5-3 below summarizes the SWE's findings for each potential scenario at the five-year (2020) time horizon under varying natural gas prices. The SWE's findings show that if the historically low natural gas prices were to persist through 2020, base achievable potential would increase 72.5% to 713,483 MWh by 2020 as more CHP technologies become cost effective (namely reciprocating natural gas engines) for more EDCs.

Table 5-3: 2020 Statewide CHP Potential by Natural Gas Cost Scenario

		Most Likely (\$6.53/dekatherm)	Conservative (\$5.75/dekatherm)	Historical (\$4.61/dekatherm)
Scenario		2020 Cumulative Savings Potential - MWh		
Statewide	Technical	6,245,974	6,245,974	6,245,974
	Economic	1,033,036	1,284,073	1,779,516
	Max. Achievable	826,624	1,027,710	1,424,729
	Base Achievable	413,508	514,306	713,483

5.4 CHP Benefits and Costs

Table 5-3 provides the economic impacts by EDC for the CHP base achievable and max achievable scenarios. Overall, the SWE found there to be cost-effective potential attainable in Pennsylvania for one CHP technology – steam turbines. The SWE estimates that the net present value of the cost to attain the savings associated with these cost-effective CHP technologies to be approximately \$230 million from 2016 to 2020 under the base achievable scenario, while the benefits amount to over \$266 million during the same time horizon resulting in more than \$36 million in net benefits and a TRC ratio of 1.2.

Table 5-4: Five-Year CHP TRC Benefit-Cost Ratios by Achievable Scenario, by EDC

	NPV Costs (Million \$)	NPV Benefits (Million \$)	NPV Net Benefits (Million \$)	TRC BC Ratio
Maximum Achievable Potential				
Duquesne	\$57.7	\$69.7	\$12.0	1.2
First Energy: Met Ed	\$37.6	\$41.7	\$4.1	1.1
First Energy: Penelec	\$38.9	\$41.5	\$2.5	1.1
First Energy: Penn Power	\$7.3	\$8.6	\$1.3	1.2
First Energy: WPP	\$54.8	\$62.1	\$7.3	1.1
PECO	\$158.8	\$194.1	\$35.3	1.2
PPL	\$105.3	\$114.7	\$9.4	1.1
Statewide	\$460.5	\$532.4	\$71.9	1.2
Base Achievable Potential				
Duquesne	\$28.9	\$34.8	\$6.0	1.2
First Energy: Met Ed	\$18.8	\$20.9	\$2.1	1.1
First Energy: Penelec	\$19.5	\$20.7	\$1.3	1.1

	NPV Costs (Million \$)	NPV Benefits (Million \$)	NPV Net Benefits (Million \$)	TRC BC Ratio
First Energy: Penn Power	\$3.7	\$4.3	\$0.6	1.2
First Energy: WPP	\$27.4	\$31.1	\$3.7	1.1
PECO	\$79.4	\$97.1	\$17.7	1.2
PPL	\$52.7	\$57.4	\$4.7	1.1
Statewide	\$230.3	\$266.3	\$36.0	1.2

Table 5-4 summarizes the total estimated program expenses that would be paid by the EDCs to realize the five-year potential estimates under the base achievable and max achievable scenarios. SWE estimates the total five-year programmatic costs for all seven EDCs at \$15 million to achieve 247,355 MWh of savings under the base achievable scenario resulting in an acquisition cost of \$60.53/MWh-saved.

Table 5-5: Five-Year CHP Acquisition Costs (TRC) by Achievable Scenario by EDC

EDC	2016-2020 Program Costs (\$Million)	2016-2020 Program Savings (MWh)	Acquisition Costs (\$/MWh)	2016-2020 Program Costs (\$Million)	2016-2020 Program Savings (MWh)	Acquisition Costs (\$/MWh)
	Maximum Achievable Scenario			Base Achievable Scenario		
Duquesne	\$6.8	58,338	\$116.74	\$1.8	29,185	\$60.3
First Energy: Met Ed	\$4.7	39,453	\$118.20	\$1.2	19,733	\$60.7
First Energy: Penelec	\$5.3	41,010	\$130.12	\$1.3	20,515	\$64.4
First Energy: Penn Power	\$0.9	10,567	\$83.56	\$0.3	5,286	\$49.9
First Energy: WPP	\$7.2	65,104	\$110.67	\$1.9	32,568	\$58.4
PECO	\$18.7	168,207	\$111.02	\$4.9	84,147	\$58.5
PPL	\$14.6	111,797	\$130.31	\$3.6	55,922	\$64.6
Statewide	\$58.1	494,476	\$117.58	\$15.0	247,355	\$60.53

6 CONCLUSIONS

The final section of this report provides a brief summary of the overall potential findings and general conclusions stemming from the SWE analysis.

6.1 Summary

In summary, while there are still substantial amounts of technical potential for distributed generation technologies (almost 22 million MWh over the five-year time horizon from 2016 to 2020), there are limited opportunities for cost-effective potential in the service areas of the seven Pennsylvania electric distribution companies bound under Act 129 (included in this study). The statewide estimated base achievable potential for the five year time horizon (2016 – 2020) amounts to 413,508 MWh (a 0.3% reduction in the projected 2010 baseline MWh sales). The net present value costs to acquire the savings over the five-year horizon are equal to \$230 million, yet yield net present value benefits during the same time horizon in excess of \$266 million resulting in net benefits of \$36 million and a TRC ratio of 1.16.

As mentioned before, a contributing factor to the limited cost-effective opportunity for DG technologies is due to the statutory definitions within Act 129 that limit DG technology benefits for a period of 15 years, even though these technologies typically have a measure of 20 to 30 years. In light of this constraint, the SWE team assessed the economic potential of DG technologies without the 15 year avoided cost benefit limitation. The SWE found that the statewide economic and base achievable potential of all cost-effective DG technologies increased 54% without the measure life limitation in the Act 129 Statute.

6.2 Concluding Thoughts

The distributed generation potential estimates provided in this report are based upon the latest load forecasts and avoided cost forecasts provided by the seven electric distribution companies. Over time, costs for some distributed generation technologies – especially solar photovoltaic – may decline substantially and serve to increase the potential for cost-effective distributed generation and warrant additional attention. Currently, however, the SWE found limited cost effective potential for distributed generation technologies. This finding is a consequence of several factors, including high distributed generation equipment costs (especially for solar photovoltaic), moderate to low avoided costs in Pennsylvania (resulting in minimum benefits for distributed generation technologies), and a limitation of 15 years of benefits (due to statutory definitions within Act 129 that limit consideration to a maximum 15 year life for all equipment and measures) for distributed generation technologies that typically have a 20 to 30 lifetime.

However, the SWE notes that distributed generation technologies such as solar photovoltaic and combined heat and power can still play a role in EDC demand side management programs given the significant amount of technical potential found in this study. Furthermore, distributed generation resources can provide non-energy benefits to customers such as CO₂ emission reductions or energy security in the case of a power grid failure that were not quantified as benefits in this report. With relative low acquisition costs, these resources can still provide value to Pennsylvania rate-payers and allow the EDCs to reduce energy demand, while still keeping their portfolio of DSM program cost-effective.

APPENDICES

APPENDIX A

GLOSSARY

GLOSSARY

The following list defines many of the key distributed generation terms used throughout this distributed generation potential study.

Achievable Potential: The amount of energy use that distributed generation (DG) can realistically be expected to displace. Achievable potential takes into account real-world barriers to convincing end-users to adopt DG technologies, the non-technology costs of delivering programs (for administration, marketing, tracking systems, monitoring and evaluation, etc.), and the capability of programs and administrators to ramp up program activity over time. (*See also Base Achievable Potential and Maximum Achievable Potential*).

Acquisition Costs are defined within this report as program expense dollars spent to acquire first-year energy savings. Program expense dollars include all program costs such as rebates, incentives, administrative costs, as well as marketing, outreach, and evaluation expenditures. Discussion of acquisition cost is useful because of its simplicity (costs divided by first year savings). However, this metric does have important limitations, because it does not reflect the value of the energy savings as a resource. Additional savings parameters would need to be included, specifically measure lifetime, to determine the value of the savings resource.

Adoption Rate is the rate at which new technologies, processes and innovations spreads through a society, and why they are adopted over old methods.

Applicability Factor: The fraction of the applicable dwelling units or businesses that is technically feasible for conversion to the efficient technology from an engineering perspective (e.g., it may not be possible to install a large gas turbine in a restaurant because the restaurant does not have a large enough energy load to support the gas turbine).

Avoided Costs: The cost of producing or delivering power that the utility can avoid by lowering capacity and energy requirements.

Base Achievable Potential: An achievable potential scenario that is based on historical incentive levels and the corresponding program adoption rates observed from the Pennsylvania EDCs and other regional utility demand-side management (DSM) programs.

Base Case Building Consumption: The electricity used per building per year by each base-case technology in each market segment. This is the consumption of the electric energy using equipment that the efficient technology replaces or affects.

Compound Annual Growth Rate (CAGR) is the year-over-year growth rate of an investment over a specified period of time.

Cost-Effectiveness: A technology of the relevant economic effects resulting from the implementation of a distributed generation technology. If the benefits are greater than the costs, the technology is said to be cost-effective.

Cumulative Annual: Refers to the overall annual savings occurring in a given year from both new participants and annual savings continuing to result from past participation with distributed generation

technologies that are still in place. For the purposes of this study, cumulative annual equals the sum of annual increment since all technology useful lives go beyond the time horizon of the study (10 years).

Commercial Sector: Comprised of non-manufacturing premises typically used to sell a product or provide a service, where electricity is consumed primarily for lighting, space cooling and heating, office equipment and other appliances.

Energy Use Intensity (EUI): A unit of measurement that describes a building's energy use. EUI represents the energy consumed by a building relative to its size.

Economic Potential: The subset of the technical potential that is economically cost-effective as compared to conventional supply-side energy resources. Economic ignores market barriers to ensuring actual implementation of distributed generation. Finally, economic potential only considers the costs of efficiency technologies themselves, ignoring any programmatic costs (e.g., marketing, analysis, administration) that would be necessary to capture them.

End-Use: A category of equipment or service that consumes energy (e.g., lighting, refrigeration, heating, process heat, cooling). This study, however, only considered building-wide energy consumption.

First Year Savings: Savings accrued in the first year of the technologies' installation. Future benefits are not considered.

Gross Savings: Gross energy (or demand) savings are the change in energy consumption or demand that results directly from program-promoted actions (e.g., installing a micro turbine) taken by program participants regardless of the extent or nature of program influence on their actions.

Incentive Costs: A rebate or some form of payment used to encourage people to implement a given demand-side management (DSM) technology. The incentive is calculated as the amount of the technology costs that must be paid by the utility for the participant test to equal one and achieve the desired benefit/cost ratio to drive the market.

Incremental Annual: Savings or costs in a given year associated only with new installations happening in that specific year.

Industrial Sector: Comprised of manufacturing premises typically used for producing and processing goods, where electricity is consumed primarily for operating motors, process cooling and heating, and space heating, ventilation, and air conditioning (HVAC).

Maximum Achievable Potential: An achievable potential scenario that assumes the most aggressive program scenario possible (e.g. providing end users with payments for 50% of incremental cost of distributed generation equipment).

MW: A unit of electrical output, equal to one million watts or one thousand kilowatts. It is typically used to refer to the output of a power plant.

MWh: One thousand kilowatt-hours, or one million watt-hours. One MWh is equal to the use of 1,000,000 watts of power in one hour.

Net Savings: Net energy or demand savings refer to the portion of gross savings that is attributable to the program. This involves separating out the impacts that are a result of other influences, such as consumer self-motivation. Given the range of influences on consumers' energy consumption, attributing changes to one cause (i.e., a particular program) or another can be quite complex.

Participant Cost: The cost to the participant to participate in a DSM program and adopt a distributed generation technology.

Portfolio: Either a collection of similar programs addressing the same market, technology, or mechanisms; or the set of all programs conducted by one organization or utility.

Program: A mechanism for encouraging distributed generation that may be funded by a variety of sources and pursued by a wide range of approaches (typically includes multiple distributed generation technologies).

Remaining Factor: The fraction of applicable units that have not yet been converted to the distributed generation technology; that is, one minus the fraction of units that already have the energy efficiency measure installed. This factor was applied to the applicability factor for all technologies.

Savings Factor: The percentage reduction in building electricity consumption resulting from application of the distributed generation technology. The savings factor is used in the formulas to calculate potential.

Technical Potential: The theoretical maximum amount of energy use that could be displaced by distributed generation, disregarding all non-engineering constraints such as cost-effectiveness and the willingness of end users to adopt the efficiency measures. Technical potential is constrained only by factors such as technical feasibility and applicability of technologies.

Total Resource Cost Test: The TRC measures the net benefits of the distributed generation program for a region or service area as a whole. Costs included in the TRC are costs to purchase and install the distributed generation technology and overhead costs of running the distributed generation program. The benefits included are the avoided costs of energy and capacity. For purposes of this study, non-electric benefits were not included in the calculation of TRC benefits.

APPENDIX B

AVOIDED COSTS & GENERAL MODELING ASSUMPTIONS

DUQUESNE

Avoided Cost Assumptions

Year	Avoided Energy				Avoided Capacity \$/kW-Yr	Avoided T&D \$/kW-Yr	Avoided Transmission Only \$/kW-Yr
	Winter Peak	Winter Off-Peak	Summer Peak	Summer Off Peak			
	\$/MWh	\$/MWh	\$/MWh	\$/MWh			
2016	46.645	32.850	46.645	32.850	21.67	40.88	40.88
2017	47.755	33.865	47.755	33.865	43.80	41.64	41.64
2018	38.69	38.69	40.23	40.23	44.62	42.42	42.42
2019	40.17	40.17	41.77	41.77	45.45	43.22	43.22
2020	41.64	41.64	43.36	43.36	46.30	44.02	44.02
2021	43.12	43.12	44.96	44.96	47.17	44.85	44.85
2022	44.17	44.17	45.79	45.79	48.05	45.69	45.69
2023	85.56	85.56	85.56	85.56	48.95	46.54	46.54
2024	87.69	87.69	87.69	87.69	49.87	47.41	47.41
2025	89.11	89.11	89.11	89.11	50.80	48.30	48.30
2026	90.81	90.81	90.81	90.81	51.75	49.20	49.20
2027	93.19	93.19	93.19	93.19	52.72	50.12	50.12
2028	95.22	95.22	95.22	95.22	53.70	51.06	51.06
2029	96.69	96.69	96.69	96.69	54.71	52.01	52.01
2030	97.84	97.84	97.84	97.84	55.73	52.99	52.99
2031	99.74	99.74	99.74	99.74	56.77	53.98	53.98
2032	99.74	99.74	99.74	99.74	57.83	54.99	54.99
2033	102.44	102.44	102.44	102.44	58.91	56.01	56.01
2034	105.56	105.56	105.56	105.56	60.02	57.06	57.06
2035	107.54	107.54	107.54	107.54	61.14	58.13	58.13
2036	109.55	109.55	109.55	109.55	62.28	59.22	59.22
2037	111.60	111.60	111.60	111.60	63.45	60.32	60.32
2038	113.68	113.68	113.68	113.68	64.63	61.45	61.45
2039	115.81	115.81	115.81	115.81	65.84	62.60	62.60
2040	117.97	117.97	117.97	117.97	67.07	63.77	63.77
2041	120.18	120.18	120.18	120.18	68.33	64.96	64.96
2042	122.43	122.43	122.43	122.43	69.60	66.18	66.18
2043	124.72	124.72	124.72	124.72	70.91	67.42	67.42
2044	127.05	127.05	127.05	127.05	72.23	68.68	68.68
2045	129.43	129.43	129.43	129.43	73.58	69.96	69.96

Other General Modeling Assumptions

Avoided Cost Inflation Rate <i>(BLS Statistic)</i>	1.87%
Residential Line Loss Multiplier	1.0741
Commercial Line Loss Multiplier	1.0741
Industrial Line Loss Multiplier	1.0081

FIRST ENERGY – MET-ED

Avoided Cost Assumptions

Year	Avoided Energy						Avoided Transmission Only
	Winter Peak	Winter Off-Peak	Summer Peak	Summer Off Peak	Avoided Capacity	Avoided T&D	
	\$/MWh	\$/MWh	\$/MWh	\$/MWh	\$/kW-Yr	\$/kW-Yr	
2016	51.089	39.826	51.089	39.826	43.48	40.98	14.77
2017	50.762	40.357	50.762	40.357	43.80	41.75	15.05
2018	51.07	41.45	51.07	41.45	44.62	42.53	15.33
2019	52.60	42.58	52.60	42.58	45.45	43.32	15.61
2020	54.13	43.60	54.13	43.60	46.30	44.13	15.91
2021	56.35	45.05	56.35	45.05	47.17	44.96	16.20
2022	58.38	46.36	58.38	46.36	48.05	45.80	16.51
2023	60.08	47.46	60.08	47.46	48.95	46.65	16.82
2024	61.35	48.27	61.35	48.27	49.87	47.53	17.13
2025	62.47	49.01	62.47	49.01	50.80	48.42	17.45
2026	63.93	49.97	63.93	49.97	51.75	49.32	17.78
2027	73.08	56.28	73.08	56.28	52.72	50.24	18.11
2028	86.30	64.62	86.30	64.62	53.70	51.18	18.45
2029	92.75	68.84	92.75	68.84	54.71	52.14	18.79
2030	99.14	72.96	99.14	72.96	55.73	53.12	19.14
2031	101.00	74.33	101.00	74.33	56.77	54.11	19.50
2032	102.89	75.72	102.89	75.72	57.83	55.12	19.87
2033	104.81	77.13	104.81	77.13	58.91	56.15	20.24
2034	106.77	78.58	106.77	78.58	60.02	57.20	20.62
2035	108.77	80.05	108.77	80.05	61.14	58.27	21.00
2036	110.80	81.54	110.80	81.54	62.28	59.36	21.39
2037	112.87	83.07	112.87	83.07	63.45	60.47	21.79
2038	114.98	84.62	114.98	84.62	64.63	61.60	22.20
2039	117.13	86.20	117.13	86.20	65.84	62.75	22.62
2040	119.32	87.82	119.32	87.82	67.07	63.93	23.04
2041	121.56	89.46	121.56	89.46	68.33	65.12	23.47
2042	123.83	91.13	123.83	91.13	69.60	66.34	23.91
2043	126.14	92.84	126.14	92.84	70.91	67.58	24.36
2044	128.50	94.57	128.50	94.57	72.23	68.84	24.81
2045	130.91	96.34	130.91	96.34	73.58	70.13	25.28

Other General Modeling Assumptions

Avoided Cost Inflation Rate <i>(BLS Statistic)</i>	1.87%
Residential Line Loss Multiplier	1.0945
Commercial Line Loss Multiplier	1.0720
Industrial Line Loss Multiplier	1.0720

FIRST ENERGY – PENELEC

Avoided Cost Assumptions

Year	Avoided Energy				Avoided Capacity \$/kW-Yr	Avoided T&D \$/kW-Yr	Avoided Transmission Only \$/kW-Yr
	Winter Peak	Winter Off-Peak	Summer Peak	Summer Off Peak			
	\$/MWh	\$/MWh	\$/MWh	\$/MWh			
2016	49.842	33.234	49.842	33.234	43.48	40.98	14.77
2017	49.516	33.675	49.516	33.675	43.80	41.75	15.05
2018	49.83	34.58	49.83	34.58	44.62	42.53	15.33
2019	51.33	35.52	51.33	35.52	45.45	43.32	15.61
2020	52.72	36.42	52.72	36.42	46.30	44.13	15.91
2021	54.69	37.70	54.69	37.70	47.17	44.96	16.20
2022	56.48	38.85	56.48	38.85	48.05	45.80	16.51
2023	57.97	39.81	57.97	39.81	48.95	46.65	16.82
2024	59.09	40.52	59.09	40.52	49.87	47.53	17.13
2025	60.07	41.17	60.07	41.17	50.80	48.42	17.45
2026	61.36	42.02	61.36	42.02	51.75	49.32	17.78
2027	73.66	50.79	73.66	50.79	52.72	50.24	18.11
2028	91.51	61.78	91.51	61.78	53.70	51.18	18.45
2029	97.96	66.00	97.96	66.00	54.71	52.14	18.79
2030	104.36	70.13	104.36	70.13	55.73	53.12	19.14
2031	106.31	71.44	106.31	71.44	56.77	54.11	19.50
2032	108.30	72.77	108.30	72.77	57.83	55.12	19.87
2033	110.32	74.13	110.32	74.13	58.91	56.15	20.24
2034	112.38	75.52	112.38	75.52	60.02	57.20	20.62
2035	114.49	76.93	114.49	76.93	61.14	58.27	21.00
2036	116.63	78.37	116.63	78.37	62.28	59.36	21.39
2037	118.81	79.84	118.81	79.84	63.45	60.47	21.79
2038	121.03	81.33	121.03	81.33	64.63	61.60	22.20
2039	123.29	82.85	123.29	82.85	65.84	62.75	22.62
2040	125.60	84.40	125.60	84.40	67.07	63.93	23.04
2041	127.95	85.98	127.95	85.98	68.33	65.12	23.47
2042	130.34	87.59	130.34	87.59	69.60	66.34	23.91
2043	132.78	89.22	132.78	89.22	70.91	67.58	24.36
2044	135.26	90.89	135.26	90.89	72.23	68.84	24.81
2045	137.79	92.59	137.79	92.59	73.58	70.13	25.28

Other General Modeling Assumptions

Avoided Cost Inflation Rate <i>(BLS Statistic)</i>	1.87%
Residential Line Loss Multiplier	1.0945
Commercial Line Loss Multiplier	1.0720
Industrial Line Loss Multiplier	1.0720

FIRST ENERGY – PENN POWER

Avoided Cost Assumptions

Year	Avoided Energy				Avoided Capacity \$/kW-Yr	Avoided T&D \$/kW-Yr	Avoided Transmission Only \$/kw-Yr
	Winter Peak	Winter Off-Peak	Summer Peak	Summer Off Peak			
	\$/MWh	\$/MWh	\$/MWh	\$/MWh			
2016	51.255	31.805	51.255	31.805	41.69	40.98	14.77
2017	50.800	32.218	50.800	32.218	43.80	41.75	15.05
2018	51.15	33.08	51.15	33.08	44.62	42.53	15.33
2019	52.99	33.99	52.99	33.99	45.45	43.32	15.61
2020	54.39	34.86	54.39	34.86	46.30	44.13	15.91
2021	56.36	36.14	56.36	36.14	47.17	44.96	16.20
2022	58.17	37.30	58.17	37.30	48.05	45.80	16.51
2023	59.66	38.26	59.66	38.26	48.95	46.65	16.82
2024	60.80	38.98	60.80	38.98	49.87	47.53	17.13
2025	61.77	39.63	61.77	39.63	50.80	48.42	17.45
2026	63.05	40.47	63.05	40.47	51.75	49.32	17.78
2027	74.35	49.05	74.35	49.05	52.72	50.24	18.11
2028	93.02	60.20	93.02	60.20	53.70	51.18	18.45
2029	99.43	64.41	99.43	64.41	54.71	52.14	18.79
2030	105.88	68.55	105.88	68.55	55.73	53.12	19.14
2031	107.86	69.83	107.86	69.83	56.77	54.11	19.50
2032	109.88	71.13	109.88	71.13	57.83	55.12	19.87
2033	111.93	72.46	111.93	72.46	58.91	56.15	20.24
2034	114.03	73.82	114.03	73.82	60.02	57.20	20.62
2035	116.16	75.20	116.16	75.20	61.14	58.27	21.00
2036	118.33	76.61	118.33	76.61	62.28	59.36	21.39
2037	120.55	78.04	120.55	78.04	63.45	60.47	21.79
2038	122.80	79.50	122.80	79.50	64.63	61.60	22.20
2039	125.10	80.98	125.10	80.98	65.84	62.75	22.62
2040	127.44	82.50	127.44	82.50	67.07	63.93	23.04
2041	129.82	84.04	129.82	84.04	68.33	65.12	23.47
2042	132.25	85.61	132.25	85.61	69.60	66.34	23.91
2043	134.72	87.21	134.72	87.21	70.91	67.58	24.36
2044	137.24	88.85	137.24	88.85	72.23	68.84	24.81
2045	139.80	90.51	139.80	90.51	73.58	70.13	25.28

Other General Modeling Assumptions

Avoided Cost Inflation Rate <i>(BLS Statistic)</i>	1.87%
Residential Line Loss Multiplier	1.0949
Commercial Line Loss Multiplier	1.0545
Industrial Line Loss Multiplier	1.0545

FIRST ENERGY – WEST PENN POWER

Avoided Cost Assumptions

Year	Avoided Energy				Avoided Capacity \$/kW-Yr	Avoided T&D \$/kW-Yr	Avoided Transmission Only \$/kW-Yr
	Winter Peak	Winter Off-Peak	Summer Peak	Summer Off Peak			
	\$/MWh	\$/MWh	\$/MWh	\$/MWh			
2016	48.993	38.440	48.993	38.440	21.67	40.98	14.77
2017	48.651	38.786	48.651	38.786	43.80	41.75	15.05
2018	48.95	39.82	48.95	39.82	44.62	42.53	15.33
2019	50.41	40.90	50.41	40.90	45.45	43.32	15.61
2020	51.80	41.84	51.80	41.84	46.30	44.13	15.91
2021	53.77	43.11	53.77	43.11	47.17	44.96	16.20
2022	55.56	44.27	55.56	44.27	48.05	45.80	16.51
2023	57.04	45.23	57.04	45.23	48.95	46.65	16.82
2024	58.15	45.94	58.15	45.94	49.87	47.53	17.13
2025	59.14	46.59	59.14	46.59	50.80	48.42	17.45
2026	60.43	47.44	60.43	47.44	51.75	49.32	17.78
2027	72.99	56.22	72.99	56.22	52.72	50.24	18.11
2028	90.63	67.20	90.63	67.20	53.70	51.18	18.45
2029	97.09	71.42	97.09	71.42	54.71	52.14	18.79
2030	103.47	75.55	103.47	75.55	55.73	53.12	19.14
2031	105.41	76.96	105.41	76.96	56.77	54.11	19.50
2032	107.38	78.40	107.38	78.40	57.83	55.12	19.87
2033	109.39	79.87	109.39	79.87	58.91	56.15	20.24
2034	111.43	81.36	111.43	81.36	60.02	57.20	20.62
2035	113.52	82.88	113.52	82.88	61.14	58.27	21.00
2036	115.64	84.43	115.64	84.43	62.28	59.36	21.39
2037	117.80	86.01	117.80	86.01	63.45	60.47	21.79
2038	120.00	87.62	120.00	87.62	64.63	61.60	22.20
2039	122.25	89.26	122.25	89.26	65.84	62.75	22.62
2040	124.53	90.92	124.53	90.92	67.07	63.93	23.04
2041	126.86	92.63	126.86	92.63	68.33	65.12	23.47
2042	129.24	94.36	129.24	94.36	69.60	66.34	23.91
2043	131.65	96.12	131.65	96.12	70.91	67.58	24.36
2044	134.11	97.92	134.11	97.92	72.23	68.84	24.81
2045	136.62	99.75	136.62	99.75	73.58	70.13	25.28

Other General Modeling Assumptions

Avoided Cost Inflation Rate <i>(BLS Statistic)</i>	1.87%
Residential Line Loss Multiplier	1.0910
Commercial Line Loss Multiplier	1.0790
Industrial Line Loss Multiplier	1.0790

FIRST ENERGY – PECO

Avoided Cost Assumptions

Year	Avoided Energy				Avoided Capacity \$/kW-Yr	Avoided T&D \$/kW-Yr	Avoided Transmission Only \$/kW-Yr
	Winter Peak	Winter Off-Peak	Summer Peak	Summer Off Peak			
	\$/MWh	\$/MWh	\$/MWh	\$/MWh			
2016	47.200	37.700	56.300	33.600	43.48	49.27	3.88
2017	49.500	39.700	58.400	35.500	43.80	50.19	3.95
2018	52.40	41.80	61.60	37.20	44.62	51.13	4.02
2019	55.80	44.20	65.50	39.40	45.45	52.09	4.09
2020	59.40	46.80	69.70	41.60	46.30	53.06	4.16
2021	63.00	49.40	74.10	44.10	47.17	54.05	4.23
2022	66.70	52.00	78.60	46.50	48.05	55.06	4.30
2023	70.30	54.60	83.00	48.90	48.95	56.09	4.38
2024	70.20	54.50	87.50	51.30	49.87	57.14	4.45
2025	71.30	55.30	84.70	49.80	50.80	58.21	4.53
2026	74.40	57.60	88.50	51.80	51.75	59.30	4.61
2027	77.40	59.70	92.30	53.90	52.72	60.41	4.69
2028	78.90	60.90	94.10	55.00	53.70	61.54	4.77
2029	80.50	62.10	96.00	56.10	54.71	62.69	4.86
2030	82.10	63.30	97.90	57.20	55.73	63.86	4.94
2031	83.70	64.60	99.90	58.30	56.77	65.05	5.03
2032	85.40	65.90	101.90	59.50	57.83	66.27	5.11
2033	87.10	67.20	103.90	60.70	58.91	67.51	5.20
2034	88.90	68.50	106.00	61.90	60.02	68.77	5.29
2035	90.60	69.90	108.10	63.10	61.14	70.06	5.38
2036	92.50	71.30	110.30	64.40	62.28	71.37	5.48
2037	94.30	72.70	112.50	65.70	63.45	72.70	5.57
2038	96.20	74.20	114.70	67.00	64.63	74.06	5.67
2039	98.10	75.70	117.00	68.30	65.84	75.45	5.77
2040	99.93	77.12	119.19	69.58	67.07	76.86	5.87
2041	101.80	78.56	121.42	70.88	68.33	78.30	5.97
2042	103.71	80.03	123.69	72.20	69.60	79.76	6.08
2043	105.65	81.52	126.00	73.55	70.91	81.25	6.18
2044	107.62	83.05	128.36	74.93	72.23	82.77	6.29
2045	109.63	84.60	130.76	76.33	73.58	84.32	6.40

Other General Modeling Assumptions

Avoided Cost Inflation Rate <i>(BLS Statistic)</i>	1.87%
Residential Line Loss Multiplier	1.0799
Commercial Line Loss Multiplier	1.0799
Industrial Line Loss Multiplier	1.0799

FIRST ENERGY – PPL

Avoided Cost Assumptions

Year	Avoided Energy				Avoided Capacity \$/kW-Yr	Avoided T&D \$/kW-Yr	Avoided Transmission Only \$/kW-Yr
	Winter Peak	Winter Off-Peak	Summer Peak	Summer Off Peak			
	\$/MWh	\$/MWh	\$/MWh	\$/MWh			
2016	48.333	36.748	51.006	30.487	43.48	20.10	0.00
2017	47.506	37.046	50.563	30.266	43.80	20.48	0.00
2018	48.54	38.56	50.91	30.83	44.62	20.86	0.00
2019	63.34	45.21	40.28	30.04	45.45	21.25	0.00
2020	64.66	46.08	41.67	30.94	46.30	21.65	0.00
2021	65.90	46.88	42.96	31.78	47.17	22.05	0.00
2022	67.03	47.62	44.11	32.53	48.05	22.46	0.00
2023	67.95	48.22	44.98	33.09	48.95	22.88	0.00
2024	68.52	48.59	45.54	33.46	49.87	23.31	0.00
2025	78.54	54.88	74.67	52.37	50.80	23.75	0.00
2026	84.54	58.79	80.89	56.42	51.75	24.19	0.00
2027	89.41	61.96	86.76	60.24	52.72	24.64	0.00
2028	94.76	65.44	91.02	63.01	53.70	25.10	0.00
2029	101.39	69.75	97.04	66.92	54.71	25.57	0.00
2030	107.52	73.74	104.04	71.48	55.73	26.05	0.00
2031	110.93	75.96	109.64	75.12	56.77	26.54	0.00
2032	108.04	74.09	111.72	76.48	57.83	27.04	0.00
2033	108.12	74.14	105.81	72.63	58.91	27.54	0.00
2034	111.17	76.12	109.53	75.06	60.02	28.06	0.00
2035	114.98	78.59	112.17	76.77	61.14	28.58	0.00
2036	119.94	81.83	116.68	79.71	62.28	29.12	0.00
2037	124.87	85.03	121.93	83.12	63.45	29.66	0.00
2038	130.06	88.41	126.65	86.20	64.63	30.21	0.00
2039	138.80	94.09	132.12	89.76	65.84	30.78	0.00
2040	141.40	95.85	134.59	91.43	67.07	31.36	0.00
2041	144.04	97.64	137.11	93.14	68.33	31.94	0.00
2042	146.73	99.47	139.68	94.89	69.60	32.54	0.00
2043	149.48	101.33	142.29	96.66	70.91	33.15	0.00
2044	152.27	103.22	144.95	98.47	72.23	33.77	0.00
2045	155.12	105.15	147.66	100.31	73.58	34.40	0.00

Other General Modeling Assumptions

Avoided Cost Inflation Rate <i>(BLS Statistic)</i>	1.87%
Residential Line Loss Multiplier	1.0910
Commercial Line Loss Multiplier	1.0790
Industrial Line Loss Multiplier	1.0790

APPENDIX C

COMBINED HEAT & POWER (CHP) ASSUMPTIONS BY EDC

Appendix C Notes

- Technology research is presented in the following tables. Technology savings, costs, EULs and TRC ratios are presented by EDC by sector and by segment.
- Incremental costs shown are exclusive of operation and maintenance (O&M) costs, such as the cost of natural gas to fuel the CHP technology. However, the TRC values shown are inclusive of the O&M (fuel) costs, and are reflective of the TRC values under the most likely natural gas cost scenario of \$6.53/dekatherm.
- Where baseline energy (kWh) is shown as "0" or "-", the SWE team found that the baseline electricity load for that segment (or building type) was not sufficiently large enough to be eligible for the respective distributed generation technology. For example, in Duquesne's service territory, the SWE team found that there were no grocery customers with a building energy load large enough to support a 100 kW micro turbine (NG) installation. Therefore, the baseline energy (kWh) was set to zero so no potential would be calculated.
- Where the technology energy savings percentage exceeded 100%, the SWE team applied a 0% applicability to that technology – effectively removing potential for that technology permutation from the analysis. For example, the 5500 kW Steam Turbine in Duquesne's service territory was given a 0% applicability for the education segment because the energy generation of that technology was 104.5% of the baseline energy.

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Education	41,475,136	1.0%	49.0	10	\$250,135	11.0%	0.31
Duquesne	100 kW Micro Turbine (NG)	Commercial	Education	41,475,136	1.1%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Education	41,475,136	16.9%	798.8	10	\$5,020,313	11.0%	0.36
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Education	41,475,136	10.6%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Education	41,475,136	10.7%	500.0	15	\$1,947,500	11.0%	0.74
Duquesne	150 kW Reciprocating Engine	Commercial	Education	41,475,136	1.3%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Education	41,475,136	28.5%	1,350.0	15	\$1,591,725	11.0%	1.05
Duquesne	175 kW Fuel Cell	Commercial	Education	41,475,136	2.6%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Education	41,475,136	2.1%	98.0	10	\$463,600	11.0%	0.45
Duquesne	25 kW Micro Turbine	Commercial	Education	41,475,136	0.3%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Education	41,475,136	42.8%	2,025.0	15	\$7,894,500	11.0%	0.63
Duquesne	3000 kW Gas Turbine	Commercial	Education	41,475,136	51.3%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Education	41,475,136	25.3%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Education	41,475,136	3.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Education	41,475,136	59.9%	2,835.0	15	\$5,429,793	11.0%	0.93
Duquesne	3500 kW Steam Turbine	Commercial	Education	41,475,136	66.5%	3,150.0	15	\$1,579,375	11.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Commercial	Education	41,475,136	38.0%	1,800.0	15	\$4,830,750	11.0%	0.88
Duquesne	500 kW Fuel Cell	Commercial	Education	41,475,136	7.5%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Commercial	Education	41,475,136	104.5%	4,950.0	15	\$2,241,525	0.0%	1.23
Duquesne	800 kW Fuel Cell	Commercial	Education	41,475,136	12.0%	568.0	10	\$3,884,840	11.0%	0.30
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Government / Public Service	14,215,506	3.0%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Government / Public Service	14,215,506	3.1%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Government / Public Service	14,215,506	49.2%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Government / Public Service	14,215,506	30.8%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Government / Public Service	14,215,506	30.9%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Commercial	Government / Public Service	14,215,506	3.7%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Government / Public Service	14,215,506	83.2%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Government / Public Service	14,215,506	7.7%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Government / Public Service	14,215,506	6.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Government / Public Service	14,215,506	0.8%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Government / Public Service	14,215,506	124.8%	2,025.0	15	\$7,894,500	0.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Government / Public Service	14,215,506	149.7%	2,430.0	15	\$6,609,150	0.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Government / Public Service	14,215,506	73.9%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Government / Public Service	14,215,506	8.6%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Government / Public Service	14,215,506	174.7%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Government / Public Service	14,215,506	194.1%	3,150.0	15	\$1,579,375	0.0%	1.17
Duquesne	4500 kW Reciprocating Engine	Commercial	Government / Public Service	14,215,506	110.9%	1,800.0	15	\$4,830,750	0.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Government / Public Service	14,215,506	21.9%	355.0	10	\$2,371,500	11.0%	0.33
Duquesne	5500 kW Steam Turbine	Commercial	Government / Public Service	14,215,506	305.0%	4,950.0	15	\$2,241,525	0.0%	1.22
Duquesne	800 kW Fuel Cell	Commercial	Government / Public Service	14,215,506	35.0%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Grocery	-	0.0%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Grocery	-	0.0%	49.0	10	\$236,550	11.0%	0.45
Duquesne	1125 kW Fuel Cell	Commercial	Grocery	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Grocery	-	0.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Grocery	-	0.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	60.0	15	\$314,925	11.0%	0.57
Duquesne	1500 kW Steam Turbine	Commercial	Grocery	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Grocery	-	0.0%	124.3	10	\$938,613	11.0%	0.32
Duquesne	200 kW Micro Turbine	Commercial	Grocery	-	0.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Grocery	-	0.0%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.52

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	3000 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.84
Duquesne	350 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Grocery	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.17
Duquesne	4500 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Grocery	-	0.0%	355.0	10	\$2,371,500	11.0%	0.33
Duquesne	5500 kW Steam Turbine	Commercial	Grocery	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.22
Duquesne	800 kW Fuel Cell	Commercial	Grocery	-	0.0%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Healthcare	21,348,921	2.0%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Healthcare	21,348,921	2.1%	49.0	10	\$236,550	11.0%	0.45
Duquesne	1125 kW Fuel Cell	Commercial	Healthcare	21,348,921	32.8%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Healthcare	21,348,921	20.5%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Healthcare	21,348,921	20.6%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Commercial	Healthcare	21,348,921	2.5%	60.0	15	\$314,925	11.0%	0.57
Duquesne	1500 kW Steam Turbine	Commercial	Healthcare	21,348,921	55.4%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Healthcare	21,348,921	5.1%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Healthcare	21,348,921	4.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Healthcare	21,348,921	0.5%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Healthcare	21,348,921	83.1%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Healthcare	21,348,921	99.7%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Healthcare	21,348,921	49.2%	1,200.0	15	\$3,220,500	11.0%	0.84
Duquesne	350 kW Reciprocating Engine	Commercial	Healthcare	21,348,921	5.7%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Healthcare	21,348,921	116.3%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Healthcare	21,348,921	129.3%	3,150.0	15	\$1,579,375	0.0%	1.17
Duquesne	4500 kW Reciprocating Engine	Commercial	Healthcare	21,348,921	73.9%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Healthcare	21,348,921	14.6%	355.0	10	\$2,371,500	11.0%	0.33
Duquesne	5500 kW Steam Turbine	Commercial	Healthcare	21,348,921	203.1%	4,950.0	15	\$2,241,525	0.0%	1.22
Duquesne	800 kW Fuel Cell	Commercial	Healthcare	21,348,921	23.3%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Lodging	9,316,900	4.6%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Lodging	9,316,900	4.7%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Lodging	9,316,900	75.1%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Lodging	9,316,900	47.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Lodging	9,316,900	47.1%	500.0	15	\$1,947,500	11.0%	0.74
Duquesne	150 kW Reciprocating Engine	Commercial	Lodging	9,316,900	5.6%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Lodging	9,316,900	126.9%	1,350.0	15	\$1,591,725	0.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Lodging	9,316,900	11.7%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Lodging	9,316,900	9.2%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Lodging	9,316,900	1.2%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Lodging	9,316,900	190.4%	2,025.0	15	\$7,894,500	0.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Lodging	9,316,900	228.5%	2,430.0	15	\$6,609,150	0.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Lodging	9,316,900	112.8%	1,200.0	15	\$3,220,500	0.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Lodging	9,316,900	13.2%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Lodging	9,316,900	266.6%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Lodging	9,316,900	296.2%	3,150.0	15	\$1,579,375	0.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Commercial	Lodging	9,316,900	169.2%	1,800.0	15	\$4,830,750	0.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Lodging	9,316,900	33.4%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Commercial	Lodging	9,316,900	465.4%	4,950.0	15	\$2,241,525	0.0%	1.23
Duquesne	800 kW Fuel Cell	Commercial	Lodging	9,316,900	53.4%	568.0	10	\$3,884,840	11.0%	0.30
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Misc.	13,894,556	3.1%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Misc.	13,894,556	3.2%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Misc.	13,894,556	50.4%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Misc.	13,894,556	31.5%	500.0	15	\$1,911,875	11.0%	0.43

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Misc.	13,894,556	31.6%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Commercial	Misc.	13,894,556	3.8%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Misc.	13,894,556	85.1%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Misc.	13,894,556	7.8%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Misc.	13,894,556	6.2%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Misc.	13,894,556	0.8%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Misc.	13,894,556	127.7%	2,025.0	15	\$7,894,500	0.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Misc.	13,894,556	153.2%	2,430.0	15	\$6,609,150	0.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Misc.	13,894,556	75.7%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Misc.	13,894,556	8.8%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Misc.	13,894,556	178.7%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Misc.	13,894,556	198.6%	3,150.0	15	\$1,579,375	0.0%	1.17
Duquesne	4500 kW Reciprocating Engine	Commercial	Misc.	13,894,556	113.5%	1,800.0	15	\$4,830,750	0.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Misc.	13,894,556	22.4%	355.0	10	\$2,371,500	11.0%	0.33
Duquesne	5500 kW Steam Turbine	Commercial	Misc.	13,894,556	312.1%	4,950.0	15	\$2,241,525	0.0%	1.22
Duquesne	800 kW Fuel Cell	Commercial	Misc.	13,894,556	35.8%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Office	16,453,039	2.6%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Office	16,453,039	2.7%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Office	16,453,039	42.5%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Office	16,453,039	26.6%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Office	16,453,039	26.7%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Commercial	Office	16,453,039	3.2%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Office	16,453,039	71.9%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Office	16,453,039	6.6%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Office	16,453,039	5.2%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Office	16,453,039	0.7%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Office	16,453,039	107.8%	2,025.0	15	\$7,894,500	0.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Office	16,453,039	129.4%	2,430.0	15	\$6,609,150	0.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Office	16,453,039	63.9%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Office	16,453,039	7.5%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Office	16,453,039	150.9%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Office	16,453,039	167.7%	3,150.0	15	\$1,579,375	0.0%	1.17
Duquesne	4500 kW Reciprocating Engine	Commercial	Office	16,453,039	95.8%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Office	16,453,039	18.9%	355.0	10	\$2,371,500	11.0%	0.33
Duquesne	5500 kW Steam Turbine	Commercial	Office	16,453,039	263.6%	4,950.0	15	\$2,241,525	0.0%	1.22
Duquesne	800 kW Fuel Cell	Commercial	Office	16,453,039	30.2%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Other Institutional	-	0.0%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Other Institutional	-	0.0%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.17

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	4500 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	355.0	10	\$2,371,500	11.0%	0.33
Duquesne	5500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.22
Duquesne	800 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Restaurant	-	0.0%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Restaurant	-	0.0%	49.0	10	\$236,550	11.0%	0.45
Duquesne	1125 kW Fuel Cell	Commercial	Restaurant	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	60.0	15	\$314,925	11.0%	0.57
Duquesne	1500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Restaurant	-	0.0%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Restaurant	-	0.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Restaurant	-	0.0%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.17
Duquesne	4500 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Restaurant	-	0.0%	355.0	10	\$2,371,500	11.0%	0.33
Duquesne	5500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.22
Duquesne	800 kW Fuel Cell	Commercial	Restaurant	-	0.0%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Retail	18,619,467	2.3%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Commercial	Retail	18,619,467	2.4%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Retail	18,619,467	37.6%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Retail	18,619,467	23.5%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Retail	18,619,467	23.6%	500.0	15	\$1,947,500	11.0%	0.74
Duquesne	150 kW Reciprocating Engine	Commercial	Retail	18,619,467	2.8%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Retail	18,619,467	63.5%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Commercial	Retail	18,619,467	5.8%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Commercial	Retail	18,619,467	4.6%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Commercial	Retail	18,619,467	0.6%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Retail	18,619,467	95.3%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Commercial	Retail	18,619,467	114.3%	2,430.0	15	\$6,609,150	0.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Retail	18,619,467	56.5%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Retail	18,619,467	6.6%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Retail	18,619,467	133.4%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Commercial	Retail	18,619,467	148.2%	3,150.0	15	\$1,579,375	0.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Commercial	Retail	18,619,467	84.7%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Commercial	Retail	18,619,467	16.7%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Commercial	Retail	18,619,467	232.9%	4,950.0	15	\$2,241,525	0.0%	1.23
Duquesne	800 kW Fuel Cell	Commercial	Retail	18,619,467	26.7%	568.0	10	\$3,884,840	11.0%	0.30
Duquesne	100 kW Micro Turbine (Biogas)	Commercial	Warehouse	9,465,680	4.5%	49.0	10	\$250,135	11.0%	0.31
Duquesne	100 kW Micro Turbine (NG)	Commercial	Warehouse	9,465,680	4.6%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Commercial	Warehouse	9,465,680	73.9%	798.8	10	\$5,020,313	11.0%	0.36
Duquesne	1250 kW Reciprocating Engine (Biogas)	Commercial	Warehouse	9,465,680	46.3%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Commercial	Warehouse	9,465,680	46.4%	500.0	15	\$1,947,500	11.0%	0.74
Duquesne	150 kW Reciprocating Engine	Commercial	Warehouse	9,465,680	5.6%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Commercial	Warehouse	9,465,680	124.9%	1,350.0	15	\$1,591,725	0.0%	1.05
Duquesne	175 kW Fuel Cell	Commercial	Warehouse	9,465,680	11.5%	124.3	10	\$938,613	11.0%	0.33

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	200 kW Micro Turbine	Commercial	Warehouse	9,465,680	9.1%	98.0	10	\$463,600	11.0%	0.45
Duquesne	25 kW Micro Turbine	Commercial	Warehouse	9,465,680	1.1%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Commercial	Warehouse	9,465,680	187.4%	2,025.0	15	\$7,894,500	0.0%	0.63
Duquesne	3000 kW Gas Turbine	Commercial	Warehouse	9,465,680	224.9%	2,430.0	15	\$6,609,150	0.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Commercial	Warehouse	9,465,680	111.1%	1,200.0	15	\$3,220,500	0.0%	0.85
Duquesne	350 kW Reciprocating Engine	Commercial	Warehouse	9,465,680	13.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Commercial	Warehouse	9,465,680	262.4%	2,835.0	15	\$5,429,793	0.0%	0.93
Duquesne	3500 kW Steam Turbine	Commercial	Warehouse	9,465,680	291.5%	3,150.0	15	\$1,579,375	0.0%	1.19
Duquesne	4500 kW Reciprocating Engine	Commercial	Warehouse	9,465,680	166.6%	1,800.0	15	\$4,830,750	0.0%	0.88
Duquesne	500 kW Fuel Cell	Commercial	Warehouse	9,465,680	32.9%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Commercial	Warehouse	9,465,680	458.1%	4,950.0	15	\$2,241,525	0.0%	1.24
Duquesne	800 kW Fuel Cell	Commercial	Warehouse	9,465,680	52.6%	568.0	10	\$3,884,840	11.0%	0.30
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Chemicals	40,267,699	1.1%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mfg: Chemicals	40,267,699	1.1%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mfg: Chemicals	40,267,699	17.4%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Chemicals	40,267,699	10.9%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Chemicals	40,267,699	10.9%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,267,699	1.3%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mfg: Chemicals	40,267,699	29.4%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mfg: Chemicals	40,267,699	2.7%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mfg: Chemicals	40,267,699	2.1%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mfg: Chemicals	40,267,699	0.3%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mfg: Chemicals	40,267,699	44.1%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mfg: Chemicals	40,267,699	52.9%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,267,699	26.1%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,267,699	3.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mfg: Chemicals	40,267,699	61.7%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mfg: Chemicals	40,267,699	68.5%	3,150.0	15	\$1,579,375	11.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,267,699	39.2%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mfg: Chemicals	40,267,699	7.7%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mfg: Chemicals	40,267,699	107.7%	4,950.0	15	\$2,241,525	0.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mfg: Chemicals	40,267,699	12.4%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Computers & Electronics	50,112,000	0.9%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mfg: Computers & Electronics	50,112,000	0.9%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	50,112,000	14.0%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Computers & Electronics	50,112,000	8.7%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Computers & Electronics	50,112,000	8.8%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	50,112,000	1.0%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	23.6%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	50,112,000	2.2%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	1.7%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	0.2%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	35.4%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	42.5%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	50,112,000	21.0%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	50,112,000	2.4%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	49.6%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	55.1%	3,150.0	15	\$1,579,375	11.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	50,112,000	31.5%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	50,112,000	6.2%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	50,112,000	86.5%	4,950.0	15	\$2,241,525	11.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	50,112,000	9.9%	568.0	10	\$3,884,840	11.0%	0.29

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Food	-	0.0%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mfg: Food	-	0.0%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mfg: Food	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Food	-	0.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Food	-	0.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mfg: Food	-	0.0%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mfg: Food	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mfg: Food	-	0.0%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mfg: Food	-	0.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mfg: Food	-	0.0%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mfg: Food	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mfg: Food	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Mfg: Food	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mfg: Food	-	0.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mfg: Food	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mfg: Food	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mfg: Food	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mfg: Food	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mfg: Food	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mfg: Food	-	0.0%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Metals	87,362,000	0.5%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mfg: Metals	87,362,000	0.5%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mfg: Metals	87,362,000	8.0%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Metals	87,362,000	5.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Metals	87,362,000	5.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mfg: Metals	87,362,000	0.6%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mfg: Metals	87,362,000	13.5%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mfg: Metals	87,362,000	1.2%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mfg: Metals	87,362,000	1.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mfg: Metals	87,362,000	0.1%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mfg: Metals	87,362,000	20.3%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mfg: Metals	87,362,000	24.4%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Mfg: Metals	87,362,000	12.0%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mfg: Metals	87,362,000	1.4%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mfg: Metals	87,362,000	28.4%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mfg: Metals	87,362,000	31.6%	3,150.0	15	\$1,579,375	11.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mfg: Metals	87,362,000	18.0%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mfg: Metals	87,362,000	3.6%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mfg: Metals	87,362,000	49.6%	4,950.0	15	\$2,241,525	11.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mfg: Metals	87,362,000	5.7%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Other	54,909,900	0.8%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mfg: Other	54,909,900	0.8%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mfg: Other	54,909,900	12.7%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Other	54,909,900	8.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Other	54,909,900	8.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mfg: Other	54,909,900	1.0%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mfg: Other	54,909,900	21.5%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mfg: Other	54,909,900	2.0%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mfg: Other	54,909,900	1.6%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mfg: Other	54,909,900	0.2%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mfg: Other	54,909,900	32.3%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mfg: Other	54,909,900	38.8%	2,430.0	15	\$6,609,150	11.0%	0.52

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	3000 kW Reciprocating Engine	Industrial	Mfg: Other	54,909,900	19.1%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mfg: Other	54,909,900	2.2%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mfg: Other	54,909,900	45.2%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mfg: Other	54,909,900	50.3%	3,150.0	15	\$1,579,375	11.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mfg: Other	54,909,900	28.7%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mfg: Other	54,909,900	5.7%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mfg: Other	54,909,900	79.0%	4,950.0	15	\$2,241,525	11.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mfg: Other	54,909,900	9.1%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Paper	6,561,653	6.5%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mfg: Paper	6,561,653	6.6%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mfg: Paper	6,561,653	106.6%	798.8	10	\$5,020,313	0.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Paper	6,561,653	66.8%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Paper	6,561,653	66.8%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mfg: Paper	6,561,653	8.0%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mfg: Paper	6,561,653	180.2%	1,350.0	15	\$1,591,725	0.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mfg: Paper	6,561,653	16.6%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mfg: Paper	6,561,653	13.1%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mfg: Paper	6,561,653	1.6%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mfg: Paper	6,561,653	270.3%	2,025.0	15	\$7,894,500	0.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mfg: Paper	6,561,653	324.4%	2,430.0	15	\$6,609,150	0.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Mfg: Paper	6,561,653	160.2%	1,200.0	15	\$3,220,500	0.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mfg: Paper	6,561,653	18.7%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mfg: Paper	6,561,653	378.5%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mfg: Paper	6,561,653	420.5%	3,150.0	15	\$1,579,375	0.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mfg: Paper	6,561,653	240.3%	1,800.0	15	\$4,830,750	0.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mfg: Paper	6,561,653	47.4%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mfg: Paper	6,561,653	660.8%	4,950.0	15	\$2,241,525	0.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mfg: Paper	6,561,653	75.8%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Plastics	22,337,000	1.9%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mfg: Plastics	22,337,000	1.9%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mfg: Plastics	22,337,000	31.3%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Plastics	22,337,000	19.6%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Plastics	22,337,000	19.6%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mfg: Plastics	22,337,000	2.4%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mfg: Plastics	22,337,000	52.9%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mfg: Plastics	22,337,000	4.9%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mfg: Plastics	22,337,000	3.8%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mfg: Plastics	22,337,000	0.5%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mfg: Plastics	22,337,000	79.4%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mfg: Plastics	22,337,000	95.3%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Mfg: Plastics	22,337,000	47.1%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mfg: Plastics	22,337,000	5.5%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mfg: Plastics	22,337,000	111.2%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mfg: Plastics	22,337,000	123.5%	3,150.0	15	\$1,579,375	0.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mfg: Plastics	22,337,000	70.6%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mfg: Plastics	22,337,000	13.9%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mfg: Plastics	22,337,000	194.1%	4,950.0	15	\$2,241,525	0.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mfg: Plastics	22,337,000	22.3%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Mining	-	0.0%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Mining	-	0.0%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Mining	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Mining	-	0.0%	500.0	15	\$1,911,875	11.0%	0.43

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Mining	-	0.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Mining	-	0.0%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Mining	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Mining	-	0.0%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Mining	-	0.0%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Mining	-	0.0%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Mining	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Mining	-	0.0%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Mining	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Mining	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Mining	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Mining	-	0.0%	568.0	10	\$3,884,840	11.0%	0.29
Duquesne	100 kW Micro Turbine (Biogas)	Industrial	Other Non-Mfg	23,053,640	1.9%	49.0	10	\$250,135	11.0%	0.30
Duquesne	100 kW Micro Turbine (NG)	Industrial	Other Non-Mfg	23,053,640	1.9%	49.0	10	\$236,550	11.0%	0.46
Duquesne	1125 kW Fuel Cell	Industrial	Other Non-Mfg	23,053,640	30.4%	798.8	10	\$5,020,313	11.0%	0.35
Duquesne	1250 kW Reciprocating Engine (Biogas)	Industrial	Other Non-Mfg	23,053,640	19.0%	500.0	15	\$1,911,875	11.0%	0.43
Duquesne	1250 kW Reciprocating Engine (NG)	Industrial	Other Non-Mfg	23,053,640	19.0%	500.0	15	\$1,947,500	11.0%	0.73
Duquesne	150 kW Reciprocating Engine	Industrial	Other Non-Mfg	23,053,640	2.3%	60.0	15	\$314,925	11.0%	0.58
Duquesne	1500 kW Steam Turbine	Industrial	Other Non-Mfg	23,053,640	51.3%	1,350.0	15	\$1,591,725	11.0%	1.04
Duquesne	175 kW Fuel Cell	Industrial	Other Non-Mfg	23,053,640	4.7%	124.3	10	\$938,613	11.0%	0.33
Duquesne	200 kW Micro Turbine	Industrial	Other Non-Mfg	23,053,640	3.7%	98.0	10	\$463,600	11.0%	0.44
Duquesne	25 kW Micro Turbine	Industrial	Other Non-Mfg	23,053,640	0.5%	12.3	10	\$70,538	11.0%	0.38
Duquesne	2500 kW Gas Turbine	Industrial	Other Non-Mfg	23,053,640	76.9%	2,025.0	15	\$7,894,500	11.0%	0.62
Duquesne	3000 kW Gas Turbine	Industrial	Other Non-Mfg	23,053,640	92.3%	2,430.0	15	\$6,609,150	11.0%	0.52
Duquesne	3000 kW Reciprocating Engine	Industrial	Other Non-Mfg	23,053,640	45.6%	1,200.0	15	\$3,220,500	11.0%	0.85
Duquesne	350 kW Reciprocating Engine	Industrial	Other Non-Mfg	23,053,640	5.3%	140.0	15	\$645,050	11.0%	0.65
Duquesne	3500 kW Gas Turbine	Industrial	Other Non-Mfg	23,053,640	107.7%	2,835.0	15	\$5,429,793	0.0%	0.92
Duquesne	3500 kW Steam Turbine	Industrial	Other Non-Mfg	23,053,640	119.7%	3,150.0	15	\$1,579,375	0.0%	1.18
Duquesne	4500 kW Reciprocating Engine	Industrial	Other Non-Mfg	23,053,640	68.4%	1,800.0	15	\$4,830,750	11.0%	0.87
Duquesne	500 kW Fuel Cell	Industrial	Other Non-Mfg	23,053,640	13.5%	355.0	10	\$2,371,500	11.0%	0.34
Duquesne	5500 kW Steam Turbine	Industrial	Other Non-Mfg	23,053,640	188.1%	4,950.0	15	\$2,241,525	0.0%	1.23
Duquesne	800 kW Fuel Cell	Industrial	Other Non-Mfg	23,053,640	21.6%	568.0	10	\$3,884,840	11.0%	0.29
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Education	13,719,665	3.1%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Education	13,719,665	3.2%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Education	13,719,665	51.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Education	13,719,665	31.9%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Education	13,719,665	32.0%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Education	13,719,665	3.8%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Education	13,719,665	86.2%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Education	13,719,665	7.9%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Education	13,719,665	6.3%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Education	13,719,665	0.8%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Education	13,719,665	129.3%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Education	13,719,665	155.2%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Education	13,719,665	76.6%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Education	13,719,665	8.9%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Education	13,719,665	181.0%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Education	13,719,665	201.1%	3,150.0	15	\$1,579,375	0.0%	1.21

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Education	13,719,665	114.9%	1,800.0	15	\$4,830,750	0.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Education	13,719,665	22.7%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Education	13,719,665	316.1%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Education	13,719,665	36.3%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Government / Public Service	7,175,374	6.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Government / Public Service	7,175,374	6.1%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Government / Public Service	7,175,374	97.5%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Government / Public Service	7,175,374	61.0%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Government / Public Service	7,175,374	61.1%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Government / Public Service	7,175,374	7.3%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Government / Public Service	7,175,374	164.8%	1,350.0	15	\$1,591,725	0.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Government / Public Service	7,175,374	15.2%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Government / Public Service	7,175,374	12.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Government / Public Service	7,175,374	1.5%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Government / Public Service	7,175,374	247.2%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Government / Public Service	7,175,374	296.7%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Government / Public Service	7,175,374	146.5%	1,200.0	15	\$3,220,500	0.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Government / Public Service	7,175,374	17.1%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Government / Public Service	7,175,374	346.1%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Government / Public Service	7,175,374	384.6%	3,150.0	15	\$1,579,375	0.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Government / Public Service	7,175,374	219.8%	1,800.0	15	\$4,830,750	0.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Government / Public Service	7,175,374	43.3%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Government / Public Service	7,175,374	604.3%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Government / Public Service	7,175,374	69.3%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Grocery	-	0.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Grocery	-	0.0%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Grocery	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Grocery	-	0.0%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Grocery	-	0.0%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Grocery	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Grocery	-	0.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Grocery	-	0.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Grocery	-	0.0%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Grocery	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Grocery	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Grocery	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Grocery	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Healthcare	13,984,975	3.1%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Healthcare	13,984,975	3.2%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Healthcare	13,984,975	50.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Healthcare	13,984,975	31.3%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Healthcare	13,984,975	31.4%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Healthcare	13,984,975	3.8%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Healthcare	13,984,975	84.6%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Healthcare	13,984,975	7.8%	124.3	10	\$938,613	11.0%	0.33

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Healthcare	13,984,975	6.1%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Healthcare	13,984,975	0.8%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Healthcare	13,984,975	126.8%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Healthcare	13,984,975	152.2%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Healthcare	13,984,975	75.2%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Healthcare	13,984,975	8.8%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Healthcare	13,984,975	177.6%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Healthcare	13,984,975	197.3%	3,150.0	15	\$1,579,375	0.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Healthcare	13,984,975	112.7%	1,800.0	15	\$4,830,750	0.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Healthcare	13,984,975	22.2%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Healthcare	13,984,975	310.1%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Healthcare	13,984,975	35.6%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Lodging	-	0.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Lodging	-	0.0%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Lodging	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Lodging	-	0.0%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Lodging	-	0.0%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Lodging	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Lodging	-	0.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Lodging	-	0.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Lodging	-	0.0%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Lodging	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Lodging	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Lodging	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Lodging	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Misc.	569,352,907	0.1%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Misc.	569,352,907	0.2%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Misc.	569,352,907	1.2%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Misc.	569,352,907	0.8%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Misc.	569,352,907	0.9%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Misc.	569,352,907	0.1%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Misc.	569,352,907	2.1%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Misc.	569,352,907	0.2%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Misc.	569,352,907	0.2%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Misc.	569,352,907	0.0%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Misc.	569,352,907	3.1%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Misc.	569,352,907	3.7%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Misc.	569,352,907	1.8%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Misc.	569,352,907	0.2%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Misc.	569,352,907	4.4%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Misc.	569,352,907	4.8%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Misc.	569,352,907	2.8%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Misc.	569,352,907	0.5%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Misc.	569,352,907	7.6%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Misc.	569,352,907	0.9%	568.0	10	\$3,884,840	11.0%	0.30

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Office	14,275,966	3.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Office	14,275,966	3.1%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Office	14,275,966	49.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Office	14,275,966	30.7%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Office	14,275,966	30.8%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Office	14,275,966	3.7%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Office	14,275,966	82.8%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Office	14,275,966	7.6%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Office	14,275,966	6.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Office	14,275,966	0.8%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Office	14,275,966	124.3%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Office	14,275,966	149.1%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Office	14,275,966	73.6%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Office	14,275,966	8.6%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Office	14,275,966	174.0%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Office	14,275,966	193.3%	3,150.0	15	\$1,579,375	0.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Office	14,275,966	110.5%	1,800.0	15	\$4,830,750	0.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Office	14,275,966	21.8%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Office	14,275,966	303.7%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Office	14,275,966	34.9%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Other Institutional	-	0.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Other Institutional	-	0.0%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Restaurant	-	0.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Restaurant	-	0.0%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Restaurant	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Restaurant	-	0.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Restaurant	-	0.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Restaurant	-	0.0%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.53

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Restaurant	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Restaurant	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Retail	-	0.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Retail	-	0.0%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Retail	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Retail	-	0.0%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Retail	-	0.0%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Retail	-	0.0%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Retail	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Retail	-	0.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Retail	-	0.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Retail	-	0.0%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Retail	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Retail	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Retail	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Retail	-	0.0%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Retail	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Retail	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Retail	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Retail	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Retail	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Retail	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Commercial	Warehouse	-	0.0%	49.0	10	\$250,135	11.0%	0.31
First Energy: Met Ed	100 kW Micro Turbine (NG)	Commercial	Warehouse	-	0.0%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Commercial	Warehouse	-	0.0%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Commercial	Warehouse	-	0.0%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Commercial	Warehouse	-	0.0%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Commercial	Warehouse	-	0.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Commercial	Warehouse	-	0.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Commercial	Warehouse	-	0.0%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Commercial	Warehouse	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Commercial	Warehouse	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Chemicals	16,955,639	2.5%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mfg: Chemicals	16,955,639	2.5%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mfg: Chemicals	16,955,639	41.3%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Chemicals	16,955,639	25.8%	500.0	15	\$1,911,875	11.0%	0.44

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Chemicals	16,955,639	25.8%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mfg: Chemicals	16,955,639	3.1%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mfg: Chemicals	16,955,639	69.7%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mfg: Chemicals	16,955,639	6.4%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mfg: Chemicals	16,955,639	5.1%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mfg: Chemicals	16,955,639	0.6%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mfg: Chemicals	16,955,639	104.6%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mfg: Chemicals	16,955,639	125.5%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mfg: Chemicals	16,955,639	62.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mfg: Chemicals	16,955,639	7.2%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mfg: Chemicals	16,955,639	146.5%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mfg: Chemicals	16,955,639	162.7%	3,150.0	15	\$1,579,375	0.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mfg: Chemicals	16,955,639	93.0%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mfg: Chemicals	16,955,639	18.3%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mfg: Chemicals	16,955,639	255.7%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mfg: Chemicals	16,955,639	29.3%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Computers & Electronics	189,903,926	0.2%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mfg: Computers & Electronics	189,903,926	0.2%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	189,903,926	3.7%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Computers & Electronics	189,903,926	2.3%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Computers & Electronics	189,903,926	2.3%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	189,903,926	0.3%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	6.2%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	189,903,926	0.6%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	0.5%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	0.1%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	9.3%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	11.2%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	189,903,926	5.5%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	189,903,926	0.6%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	13.1%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	14.5%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	189,903,926	8.3%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	189,903,926	1.6%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	189,903,926	22.8%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	189,903,926	2.6%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Food	12,431,209	3.5%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mfg: Food	12,431,209	3.5%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mfg: Food	12,431,209	56.3%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Food	12,431,209	35.2%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Food	12,431,209	35.2%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mfg: Food	12,431,209	4.2%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mfg: Food	12,431,209	95.1%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mfg: Food	12,431,209	8.8%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mfg: Food	12,431,209	6.9%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mfg: Food	12,431,209	0.9%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mfg: Food	12,431,209	142.7%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mfg: Food	12,431,209	171.2%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mfg: Food	12,431,209	84.6%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mfg: Food	12,431,209	9.9%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mfg: Food	12,431,209	199.8%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mfg: Food	12,431,209	222.0%	3,150.0	15	\$1,579,375	0.0%	1.21

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mfg: Food	12,431,209	126.8%	1,800.0	15	\$4,830,750	0.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mfg: Food	12,431,209	25.0%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mfg: Food	12,431,209	348.8%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mfg: Food	12,431,209	40.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Metals	113,520,720	0.4%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mfg: Metals	113,520,720	0.4%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mfg: Metals	113,520,720	6.2%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Metals	113,520,720	3.9%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Metals	113,520,720	3.9%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mfg: Metals	113,520,720	0.5%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mfg: Metals	113,520,720	10.4%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mfg: Metals	113,520,720	1.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mfg: Metals	113,520,720	0.8%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mfg: Metals	113,520,720	0.1%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mfg: Metals	113,520,720	15.6%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mfg: Metals	113,520,720	18.8%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mfg: Metals	113,520,720	9.3%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mfg: Metals	113,520,720	1.1%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mfg: Metals	113,520,720	21.9%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mfg: Metals	113,520,720	24.3%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mfg: Metals	113,520,720	13.9%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mfg: Metals	113,520,720	2.7%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mfg: Metals	113,520,720	38.2%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mfg: Metals	113,520,720	4.4%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Other	17,158,467	2.5%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mfg: Other	17,158,467	2.5%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mfg: Other	17,158,467	40.8%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Other	17,158,467	25.5%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Other	17,158,467	25.5%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mfg: Other	17,158,467	3.1%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mfg: Other	17,158,467	68.9%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mfg: Other	17,158,467	6.3%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mfg: Other	17,158,467	5.0%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mfg: Other	17,158,467	0.6%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mfg: Other	17,158,467	103.4%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mfg: Other	17,158,467	124.1%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mfg: Other	17,158,467	61.3%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mfg: Other	17,158,467	7.1%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mfg: Other	17,158,467	144.7%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mfg: Other	17,158,467	160.8%	3,150.0	15	\$1,579,375	0.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mfg: Other	17,158,467	91.9%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mfg: Other	17,158,467	18.1%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mfg: Other	17,158,467	252.7%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mfg: Other	17,158,467	29.0%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Paper	7,616,550	5.6%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mfg: Paper	7,616,550	5.6%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mfg: Paper	7,616,550	91.9%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Paper	7,616,550	57.5%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Paper	7,616,550	57.5%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mfg: Paper	7,616,550	6.9%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mfg: Paper	7,616,550	155.3%	1,350.0	15	\$1,591,725	0.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mfg: Paper	7,616,550	14.3%	124.3	10	\$938,613	11.0%	0.33

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mfg: Paper	7,616,550	11.3%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mfg: Paper	7,616,550	1.4%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mfg: Paper	7,616,550	232.9%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mfg: Paper	7,616,550	279.5%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mfg: Paper	7,616,550	138.0%	1,200.0	15	\$3,220,500	0.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mfg: Paper	7,616,550	16.1%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mfg: Paper	7,616,550	326.1%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mfg: Paper	7,616,550	362.3%	3,150.0	15	\$1,579,375	0.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mfg: Paper	7,616,550	207.0%	1,800.0	15	\$4,830,750	0.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mfg: Paper	7,616,550	40.8%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mfg: Paper	7,616,550	569.3%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mfg: Paper	7,616,550	65.3%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Plastics	36,264,056	1.2%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mfg: Plastics	36,264,056	1.2%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mfg: Plastics	36,264,056	19.3%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Plastics	36,264,056	12.1%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Plastics	36,264,056	12.1%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mfg: Plastics	36,264,056	1.4%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mfg: Plastics	36,264,056	32.6%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mfg: Plastics	36,264,056	3.0%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mfg: Plastics	36,264,056	2.4%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mfg: Plastics	36,264,056	0.3%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mfg: Plastics	36,264,056	48.9%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mfg: Plastics	36,264,056	58.7%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mfg: Plastics	36,264,056	29.0%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mfg: Plastics	36,264,056	3.4%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mfg: Plastics	36,264,056	68.5%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mfg: Plastics	36,264,056	76.1%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mfg: Plastics	36,264,056	43.5%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mfg: Plastics	36,264,056	8.6%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mfg: Plastics	36,264,056	119.6%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mfg: Plastics	36,264,056	13.7%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Mining	49,479,411	0.9%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Mining	49,479,411	0.9%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Mining	49,479,411	14.1%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Mining	49,479,411	8.9%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Mining	49,479,411	8.9%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Mining	49,479,411	1.1%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Mining	49,479,411	23.9%	1,350.0	15	\$1,591,725	11.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Mining	49,479,411	2.2%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Mining	49,479,411	1.7%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Mining	49,479,411	0.2%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Mining	49,479,411	35.9%	2,025.0	15	\$7,894,500	11.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Mining	49,479,411	43.0%	2,430.0	15	\$6,609,150	11.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Mining	49,479,411	21.2%	1,200.0	15	\$3,220,500	11.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Mining	49,479,411	2.5%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Mining	49,479,411	50.2%	2,835.0	15	\$5,429,793	11.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Mining	49,479,411	55.8%	3,150.0	15	\$1,579,375	11.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Mining	49,479,411	31.9%	1,800.0	15	\$4,830,750	11.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Mining	49,479,411	6.3%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Mining	49,479,411	87.6%	4,950.0	15	\$2,241,525	11.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Mining	49,479,411	10.1%	568.0	10	\$3,884,840	11.0%	0.30

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	100 kW Micro Turbine (Biogas)	Industrial	Other Non-Mfg	7,085,044	6.1%	49.0	10	\$250,135	11.0%	0.30
First Energy: Met Ed	100 kW Micro Turbine (NG)	Industrial	Other Non-Mfg	7,085,044	6.1%	49.0	10	\$236,550	11.0%	0.46
First Energy: Met Ed	1125 kW Fuel Cell	Industrial	Other Non-Mfg	7,085,044	98.8%	798.8	10	\$5,020,313	11.0%	0.35
First Energy: Met Ed	1250 kW Reciprocating Engine (Biogas)	Industrial	Other Non-Mfg	7,085,044	61.8%	500.0	15	\$1,911,875	11.0%	0.44
First Energy: Met Ed	1250 kW Reciprocating Engine (NG)	Industrial	Other Non-Mfg	7,085,044	61.8%	500.0	15	\$1,947,500	11.0%	0.74
First Energy: Met Ed	150 kW Reciprocating Engine	Industrial	Other Non-Mfg	7,085,044	7.4%	60.0	15	\$314,925	11.0%	0.58
First Energy: Met Ed	1500 kW Steam Turbine	Industrial	Other Non-Mfg	7,085,044	166.9%	1,350.0	15	\$1,591,725	0.0%	1.07
First Energy: Met Ed	175 kW Fuel Cell	Industrial	Other Non-Mfg	7,085,044	15.4%	124.3	10	\$938,613	11.0%	0.33
First Energy: Met Ed	200 kW Micro Turbine	Industrial	Other Non-Mfg	7,085,044	12.1%	98.0	10	\$463,600	11.0%	0.44
First Energy: Met Ed	25 kW Micro Turbine	Industrial	Other Non-Mfg	7,085,044	1.5%	12.3	10	\$70,538	11.0%	0.38
First Energy: Met Ed	2500 kW Gas Turbine	Industrial	Other Non-Mfg	7,085,044	250.4%	2,025.0	15	\$7,894,500	0.0%	0.63
First Energy: Met Ed	3000 kW Gas Turbine	Industrial	Other Non-Mfg	7,085,044	300.4%	2,430.0	15	\$6,609,150	0.0%	0.53
First Energy: Met Ed	3000 kW Reciprocating Engine	Industrial	Other Non-Mfg	7,085,044	148.4%	1,200.0	15	\$3,220,500	0.0%	0.86
First Energy: Met Ed	350 kW Reciprocating Engine	Industrial	Other Non-Mfg	7,085,044	17.3%	140.0	15	\$645,050	11.0%	0.65
First Energy: Met Ed	3500 kW Gas Turbine	Industrial	Other Non-Mfg	7,085,044	350.5%	2,835.0	15	\$5,429,793	0.0%	0.94
First Energy: Met Ed	3500 kW Steam Turbine	Industrial	Other Non-Mfg	7,085,044	389.5%	3,150.0	15	\$1,579,375	0.0%	1.21
First Energy: Met Ed	4500 kW Reciprocating Engine	Industrial	Other Non-Mfg	7,085,044	222.6%	1,800.0	15	\$4,830,750	0.0%	0.88
First Energy: Met Ed	500 kW Fuel Cell	Industrial	Other Non-Mfg	7,085,044	43.9%	355.0	10	\$2,371,500	11.0%	0.34
First Energy: Met Ed	5500 kW Steam Turbine	Industrial	Other Non-Mfg	7,085,044	612.0%	4,950.0	15	\$2,241,525	0.0%	1.26
First Energy: Met Ed	800 kW Fuel Cell	Industrial	Other Non-Mfg	7,085,044	70.2%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Education	17,995,053	2.4%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Education	17,995,053	2.5%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Education	17,995,053	38.9%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Education	17,995,053	24.3%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Education	17,995,053	24.4%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Education	17,995,053	2.9%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Education	17,995,053	65.7%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Education	17,995,053	6.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Education	17,995,053	4.8%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Education	17,995,053	0.6%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Education	17,995,053	98.6%	2,025.0	15	\$7,894,500	11.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Education	17,995,053	118.3%	2,430.0	15	\$6,609,150	0.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Education	17,995,053	58.4%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Education	17,995,053	6.8%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Education	17,995,053	138.0%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Education	17,995,053	153.3%	3,150.0	15	\$1,579,375	0.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Education	17,995,053	87.6%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Education	17,995,053	17.3%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Education	17,995,053	241.0%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Education	17,995,053	27.7%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Government / Public Service	13,037,094	3.3%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Government / Public Service	13,037,094	3.4%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Government / Public Service	13,037,094	53.7%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Government / Public Service	13,037,094	33.6%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Government / Public Service	13,037,094	33.7%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Government / Public Service	13,037,094	4.0%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Government / Public Service	13,037,094	90.7%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Government / Public Service	13,037,094	8.3%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Government / Public Service	13,037,094	6.6%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Government / Public Service	13,037,094	0.8%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Government / Public Service	13,037,094	136.1%	2,025.0	15	\$7,894,500	0.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Government / Public Service	13,037,094	163.3%	2,430.0	15	\$6,609,150	0.0%	0.56

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Government / Public Service	13,037,094	80.6%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Government / Public Service	13,037,094	9.4%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Government / Public Service	13,037,094	190.5%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Government / Public Service	13,037,094	211.7%	3,150.0	15	\$1,579,375	0.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Government / Public Service	13,037,094	120.9%	1,800.0	15	\$4,830,750	0.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Government / Public Service	13,037,094	23.9%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Government / Public Service	13,037,094	332.6%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Government / Public Service	13,037,094	38.2%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Grocery	-	0.0%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Grocery	-	0.0%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Grocery	-	0.0%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Grocery	-	0.0%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Grocery	-	0.0%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Grocery	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Grocery	-	0.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Grocery	-	0.0%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Grocery	-	0.0%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Grocery	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Grocery	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Grocery	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Grocery	-	0.0%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Healthcare	12,027,748	3.6%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Healthcare	12,027,748	3.7%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Healthcare	12,027,748	58.2%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Healthcare	12,027,748	36.4%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Healthcare	12,027,748	36.5%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Healthcare	12,027,748	4.4%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Healthcare	12,027,748	98.3%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Healthcare	12,027,748	9.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Healthcare	12,027,748	7.1%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Healthcare	12,027,748	0.9%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Healthcare	12,027,748	147.5%	2,025.0	15	\$7,894,500	0.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Healthcare	12,027,748	177.0%	2,430.0	15	\$6,609,150	0.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Healthcare	12,027,748	87.4%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Healthcare	12,027,748	10.2%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Healthcare	12,027,748	206.5%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Healthcare	12,027,748	229.4%	3,150.0	15	\$1,579,375	0.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Healthcare	12,027,748	131.1%	1,800.0	15	\$4,830,750	0.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Healthcare	12,027,748	25.9%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Healthcare	12,027,748	360.5%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Healthcare	12,027,748	41.4%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Lodging	-	0.0%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Lodging	-	0.0%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Lodging	-	0.0%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Lodging	-	0.0%	500.0	15	\$1,911,875	11.0%	0.46

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Lodging	-	0.0%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Lodging	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Lodging	-	0.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Lodging	-	0.0%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Lodging	-	0.0%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Lodging	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Lodging	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Lodging	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Lodging	-	0.0%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Misc.	17,611,024	2.4%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Misc.	17,611,024	2.5%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Misc.	17,611,024	39.7%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Misc.	17,611,024	24.9%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Misc.	17,611,024	25.0%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Misc.	17,611,024	3.0%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Misc.	17,611,024	67.2%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Misc.	17,611,024	6.2%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Misc.	17,611,024	4.9%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Misc.	17,611,024	0.6%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Misc.	17,611,024	100.7%	2,025.0	15	\$7,894,500	0.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Misc.	17,611,024	120.9%	2,430.0	15	\$6,609,150	0.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Misc.	17,611,024	59.7%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Misc.	17,611,024	7.0%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Misc.	17,611,024	141.0%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Misc.	17,611,024	156.7%	3,150.0	15	\$1,579,375	0.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Misc.	17,611,024	89.5%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Misc.	17,611,024	17.7%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Misc.	17,611,024	246.2%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Misc.	17,611,024	28.3%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Office	10,681,019	4.0%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Office	10,681,019	4.1%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Office	10,681,019	65.5%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Office	10,681,019	41.0%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Office	10,681,019	41.1%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Office	10,681,019	4.9%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Office	10,681,019	110.7%	1,350.0	15	\$1,591,725	0.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Office	10,681,019	10.2%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Office	10,681,019	8.0%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Office	10,681,019	1.0%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Office	10,681,019	166.1%	2,025.0	15	\$7,894,500	0.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Office	10,681,019	199.3%	2,430.0	15	\$6,609,150	0.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Office	10,681,019	98.4%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Office	10,681,019	11.5%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Office	10,681,019	232.5%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Office	10,681,019	258.3%	3,150.0	15	\$1,579,375	0.0%	1.28

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Office	10,681,019	147.6%	1,800.0	15	\$4,830,750	0.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Office	10,681,019	29.1%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Office	10,681,019	406.0%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Office	10,681,019	46.6%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Other Institutional	11,362,843	3.8%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Other Institutional	11,362,843	3.9%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Other Institutional	11,362,843	61.6%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Other Institutional	11,362,843	38.5%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Other Institutional	11,362,843	38.6%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Other Institutional	11,362,843	4.6%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Other Institutional	11,362,843	104.1%	1,350.0	15	\$1,591,725	0.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Other Institutional	11,362,843	9.6%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Other Institutional	11,362,843	7.6%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Other Institutional	11,362,843	0.9%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Other Institutional	11,362,843	156.1%	2,025.0	15	\$7,894,500	0.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Other Institutional	11,362,843	187.3%	2,430.0	15	\$6,609,150	0.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Other Institutional	11,362,843	92.5%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Other Institutional	11,362,843	10.8%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Other Institutional	11,362,843	218.6%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Other Institutional	11,362,843	242.8%	3,150.0	15	\$1,579,375	0.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Other Institutional	11,362,843	138.8%	1,800.0	15	\$4,830,750	0.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Other Institutional	11,362,843	27.4%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Other Institutional	11,362,843	381.6%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Other Institutional	11,362,843	43.8%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Restaurant	-	0.0%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Restaurant	-	0.0%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Restaurant	-	0.0%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Restaurant	-	0.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Restaurant	-	0.0%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Restaurant	-	0.0%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Restaurant	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Restaurant	-	0.0%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Retail	-	0.0%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Retail	-	0.0%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Retail	-	0.0%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Retail	-	0.0%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Retail	-	0.0%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Retail	-	0.0%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Retail	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Retail	-	0.0%	124.3	10	\$938,613	11.0%	0.34

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	200 kW Micro Turbine	Commercial	Retail	-	0.0%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Retail	-	0.0%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Retail	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Retail	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Retail	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Retail	-	0.0%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Retail	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Retail	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Retail	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Retail	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Retail	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Retail	-	0.0%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Commercial	Warehouse	9,717,787	4.4%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Commercial	Warehouse	9,717,787	4.5%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Commercial	Warehouse	9,717,787	72.0%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Commercial	Warehouse	9,717,787	45.1%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Commercial	Warehouse	9,717,787	45.2%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Commercial	Warehouse	9,717,787	5.4%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Commercial	Warehouse	9,717,787	121.7%	1,350.0	15	\$1,591,725	0.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Commercial	Warehouse	9,717,787	11.2%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Commercial	Warehouse	9,717,787	8.8%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Commercial	Warehouse	9,717,787	1.1%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Commercial	Warehouse	9,717,787	182.5%	2,025.0	15	\$7,894,500	0.0%	0.66
First Energy: Penelec	3000 kW Gas Turbine	Commercial	Warehouse	9,717,787	219.0%	2,430.0	15	\$6,609,150	0.0%	0.56
First Energy: Penelec	3000 kW Reciprocating Engine	Commercial	Warehouse	9,717,787	108.2%	1,200.0	15	\$3,220,500	0.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Commercial	Warehouse	9,717,787	12.6%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Commercial	Warehouse	9,717,787	255.6%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Commercial	Warehouse	9,717,787	284.0%	3,150.0	15	\$1,579,375	0.0%	1.28
First Energy: Penelec	4500 kW Reciprocating Engine	Commercial	Warehouse	9,717,787	162.3%	1,800.0	15	\$4,830,750	0.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Commercial	Warehouse	9,717,787	32.0%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Commercial	Warehouse	9,717,787	446.2%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Commercial	Warehouse	9,717,787	51.2%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Chemicals	25,714,884	1.7%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mfg: Chemicals	25,714,884	1.7%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mfg: Chemicals	25,714,884	27.2%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Chemicals	25,714,884	17.0%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Chemicals	25,714,884	17.0%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,714,884	2.0%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mfg: Chemicals	25,714,884	46.0%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mfg: Chemicals	25,714,884	4.2%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mfg: Chemicals	25,714,884	3.3%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mfg: Chemicals	25,714,884	0.4%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mfg: Chemicals	25,714,884	69.0%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mfg: Chemicals	25,714,884	82.8%	2,430.0	15	\$6,609,150	11.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,714,884	40.9%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,714,884	4.8%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mfg: Chemicals	25,714,884	96.6%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mfg: Chemicals	25,714,884	107.3%	3,150.0	15	\$1,579,375	0.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,714,884	61.3%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mfg: Chemicals	25,714,884	12.1%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mfg: Chemicals	25,714,884	168.6%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mfg: Chemicals	25,714,884	19.3%	568.0	10	\$3,884,840	11.0%	0.30

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Computers & Electronics	105,550,560	0.4%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mfg: Computers & Electronics	105,550,560	0.4%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	105,550,560	6.6%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Computers & Electronics	105,550,560	4.1%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Computers & Electronics	105,550,560	4.2%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	105,550,560	0.5%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	11.2%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	105,550,560	1.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	0.8%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	0.1%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	16.8%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	20.2%	2,430.0	15	\$6,609,150	11.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	105,550,560	10.0%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	105,550,560	1.2%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	23.5%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	26.1%	3,150.0	15	\$1,579,375	11.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	105,550,560	14.9%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	105,550,560	2.9%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	105,550,560	41.1%	4,950.0	15	\$2,241,525	11.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	105,550,560	4.7%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Food	18,755,056	2.3%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mfg: Food	18,755,056	2.3%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mfg: Food	18,755,056	37.3%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Food	18,755,056	23.4%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Food	18,755,056	23.4%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mfg: Food	18,755,056	2.8%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mfg: Food	18,755,056	63.1%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mfg: Food	18,755,056	5.8%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mfg: Food	18,755,056	4.6%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mfg: Food	18,755,056	0.6%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mfg: Food	18,755,056	94.6%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mfg: Food	18,755,056	113.5%	2,430.0	15	\$6,609,150	0.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mfg: Food	18,755,056	56.0%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mfg: Food	18,755,056	6.5%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mfg: Food	18,755,056	132.4%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mfg: Food	18,755,056	147.1%	3,150.0	15	\$1,579,375	0.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mfg: Food	18,755,056	84.1%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mfg: Food	18,755,056	16.6%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mfg: Food	18,755,056	231.2%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mfg: Food	18,755,056	26.5%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Metals	48,032,853	0.9%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mfg: Metals	48,032,853	0.9%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mfg: Metals	48,032,853	14.6%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Metals	48,032,853	9.1%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Metals	48,032,853	9.1%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mfg: Metals	48,032,853	1.1%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mfg: Metals	48,032,853	24.6%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mfg: Metals	48,032,853	2.3%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mfg: Metals	48,032,853	1.8%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mfg: Metals	48,032,853	0.2%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mfg: Metals	48,032,853	36.9%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mfg: Metals	48,032,853	44.3%	2,430.0	15	\$6,609,150	11.0%	0.55

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mfg: Metals	48,032,853	21.9%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mfg: Metals	48,032,853	2.6%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mfg: Metals	48,032,853	51.7%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mfg: Metals	48,032,853	57.4%	3,150.0	15	\$1,579,375	11.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mfg: Metals	48,032,853	32.8%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mfg: Metals	48,032,853	6.5%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mfg: Metals	48,032,853	90.3%	4,950.0	15	\$2,241,525	11.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mfg: Metals	48,032,853	10.4%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Other	18,579,312	2.3%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mfg: Other	18,579,312	2.3%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mfg: Other	18,579,312	37.7%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Other	18,579,312	23.6%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Other	18,579,312	23.6%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mfg: Other	18,579,312	2.8%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mfg: Other	18,579,312	63.7%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mfg: Other	18,579,312	5.9%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mfg: Other	18,579,312	4.6%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mfg: Other	18,579,312	0.6%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mfg: Other	18,579,312	95.5%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mfg: Other	18,579,312	114.6%	2,430.0	15	\$6,609,150	0.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mfg: Other	18,579,312	56.6%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mfg: Other	18,579,312	6.6%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mfg: Other	18,579,312	133.7%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mfg: Other	18,579,312	148.5%	3,150.0	15	\$1,579,375	0.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mfg: Other	18,579,312	84.9%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mfg: Other	18,579,312	16.7%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mfg: Other	18,579,312	233.4%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mfg: Other	18,579,312	26.8%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Paper	23,469,373	1.8%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mfg: Paper	23,469,373	1.8%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mfg: Paper	23,469,373	29.8%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Paper	23,469,373	18.7%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Paper	23,469,373	18.7%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mfg: Paper	23,469,373	2.2%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mfg: Paper	23,469,373	50.4%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mfg: Paper	23,469,373	4.6%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mfg: Paper	23,469,373	3.7%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mfg: Paper	23,469,373	0.5%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mfg: Paper	23,469,373	75.6%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mfg: Paper	23,469,373	90.7%	2,430.0	15	\$6,609,150	11.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mfg: Paper	23,469,373	44.8%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mfg: Paper	23,469,373	5.2%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mfg: Paper	23,469,373	105.8%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mfg: Paper	23,469,373	117.6%	3,150.0	15	\$1,579,375	0.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mfg: Paper	23,469,373	67.2%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mfg: Paper	23,469,373	13.3%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mfg: Paper	23,469,373	184.8%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mfg: Paper	23,469,373	21.2%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Plastics	27,176,238	1.6%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mfg: Plastics	27,176,238	1.6%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mfg: Plastics	27,176,238	25.7%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Plastics	27,176,238	16.1%	500.0	15	\$1,911,875	11.0%	0.46

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Plastics	27,176,238	16.1%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mfg: Plastics	27,176,238	1.9%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mfg: Plastics	27,176,238	43.5%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mfg: Plastics	27,176,238	4.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mfg: Plastics	27,176,238	3.2%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mfg: Plastics	27,176,238	0.4%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mfg: Plastics	27,176,238	65.3%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mfg: Plastics	27,176,238	78.3%	2,430.0	15	\$6,609,150	11.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mfg: Plastics	27,176,238	38.7%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mfg: Plastics	27,176,238	4.5%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mfg: Plastics	27,176,238	91.4%	2,835.0	15	\$5,429,793	11.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mfg: Plastics	27,176,238	101.5%	3,150.0	15	\$1,579,375	0.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mfg: Plastics	27,176,238	58.0%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mfg: Plastics	27,176,238	11.4%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mfg: Plastics	27,176,238	159.6%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mfg: Plastics	27,176,238	18.3%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Mining	22,844,194	1.9%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Mining	22,844,194	1.9%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Mining	22,844,194	30.6%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Mining	22,844,194	19.2%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Mining	22,844,194	19.2%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Mining	22,844,194	2.3%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Mining	22,844,194	51.8%	1,350.0	15	\$1,591,725	11.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Mining	22,844,194	4.8%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Mining	22,844,194	3.8%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Mining	22,844,194	0.5%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Mining	22,844,194	77.7%	2,025.0	15	\$7,894,500	11.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Mining	22,844,194	93.2%	2,430.0	15	\$6,609,150	11.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Mining	22,844,194	46.0%	1,200.0	15	\$3,220,500	11.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Mining	22,844,194	5.4%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Mining	22,844,194	108.7%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Mining	22,844,194	120.8%	3,150.0	15	\$1,579,375	0.0%	1.27
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Mining	22,844,194	69.0%	1,800.0	15	\$4,830,750	11.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Mining	22,844,194	13.6%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Mining	22,844,194	189.8%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Mining	22,844,194	21.8%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penelec	100 kW Micro Turbine (Biogas)	Industrial	Other Non-Mfg	8,615,345	5.0%	49.0	10	\$250,135	11.0%	0.32
First Energy: Penelec	100 kW Micro Turbine (NG)	Industrial	Other Non-Mfg	8,615,345	5.0%	49.0	10	\$236,550	11.0%	0.47
First Energy: Penelec	1125 kW Fuel Cell	Industrial	Other Non-Mfg	8,615,345	81.2%	798.8	10	\$5,020,313	11.0%	0.36
First Energy: Penelec	1250 kW Reciprocating Engine (Biogas)	Industrial	Other Non-Mfg	8,615,345	50.8%	500.0	15	\$1,911,875	11.0%	0.46
First Energy: Penelec	1250 kW Reciprocating Engine (NG)	Industrial	Other Non-Mfg	8,615,345	50.8%	500.0	15	\$1,947,500	11.0%	0.77
First Energy: Penelec	150 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,615,345	6.1%	60.0	15	\$314,925	11.0%	0.60
First Energy: Penelec	1500 kW Steam Turbine	Industrial	Other Non-Mfg	8,615,345	137.3%	1,350.0	15	\$1,591,725	0.0%	1.12
First Energy: Penelec	175 kW Fuel Cell	Industrial	Other Non-Mfg	8,615,345	12.6%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penelec	200 kW Micro Turbine	Industrial	Other Non-Mfg	8,615,345	10.0%	98.0	10	\$463,600	11.0%	0.46
First Energy: Penelec	25 kW Micro Turbine	Industrial	Other Non-Mfg	8,615,345	1.2%	12.3	10	\$70,538	11.0%	0.39
First Energy: Penelec	2500 kW Gas Turbine	Industrial	Other Non-Mfg	8,615,345	205.9%	2,025.0	15	\$7,894,500	0.0%	0.65
First Energy: Penelec	3000 kW Gas Turbine	Industrial	Other Non-Mfg	8,615,345	247.1%	2,430.0	15	\$6,609,150	0.0%	0.55
First Energy: Penelec	3000 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,615,345	122.0%	1,200.0	15	\$3,220,500	0.0%	0.89
First Energy: Penelec	350 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,615,345	14.2%	140.0	15	\$645,050	11.0%	0.68
First Energy: Penelec	3500 kW Gas Turbine	Industrial	Other Non-Mfg	8,615,345	288.3%	2,835.0	15	\$5,429,793	0.0%	0.98
First Energy: Penelec	3500 kW Steam Turbine	Industrial	Other Non-Mfg	8,615,345	320.3%	3,150.0	15	\$1,579,375	0.0%	1.27

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penelec	4500 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,615,345	183.0%	1,800.0	15	\$4,830,750	0.0%	0.92
First Energy: Penelec	500 kW Fuel Cell	Industrial	Other Non-Mfg	8,615,345	36.1%	355.0	10	\$2,371,500	11.0%	0.35
First Energy: Penelec	5500 kW Steam Turbine	Industrial	Other Non-Mfg	8,615,345	503.3%	4,950.0	15	\$2,241,525	0.0%	1.33
First Energy: Penelec	800 kW Fuel Cell	Industrial	Other Non-Mfg	8,615,345	57.8%	568.0	10	\$3,884,840	11.0%	0.30
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Education	-	0.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Education	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Education	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Education	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Education	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Education	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Education	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Education	-	0.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Education	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Education	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Education	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Education	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Education	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Education	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Education	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Education	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Education	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Education	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Education	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Education	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Government / Public Service	14,548,659	3.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Government / Public Service	14,548,659	3.1%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Government / Public Service	14,548,659	48.1%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Government / Public Service	14,548,659	30.1%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Government / Public Service	14,548,659	30.2%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Government / Public Service	14,548,659	3.6%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Government / Public Service	14,548,659	81.3%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Government / Public Service	14,548,659	7.5%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Government / Public Service	14,548,659	5.9%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Government / Public Service	14,548,659	0.7%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Government / Public Service	14,548,659	121.9%	2,025.0	15	\$7,894,500	0.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Government / Public Service	14,548,659	146.3%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Government / Public Service	14,548,659	72.3%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Government / Public Service	14,548,659	8.4%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Government / Public Service	14,548,659	170.7%	2,835.0	15	\$5,429,793	0.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Government / Public Service	14,548,659	189.7%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Government / Public Service	14,548,659	108.4%	1,800.0	15	\$4,830,750	0.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Government / Public Service	14,548,659	21.4%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Government / Public Service	14,548,659	298.0%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Government / Public Service	14,548,659	34.2%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Grocery	-	0.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Grocery	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Grocery	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Grocery	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Grocery	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Grocery	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Grocery	-	0.0%	124.3	10	\$938,613	11.0%	0.35

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Grocery	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Grocery	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Grocery	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Grocery	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Grocery	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Grocery	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Healthcare	8,011,208	5.4%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Healthcare	8,011,208	5.5%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Healthcare	8,011,208	87.3%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Healthcare	8,011,208	54.7%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Healthcare	8,011,208	54.8%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Healthcare	8,011,208	6.6%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Healthcare	8,011,208	147.6%	1,350.0	15	\$1,591,725	0.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Healthcare	8,011,208	13.6%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Healthcare	8,011,208	10.7%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Healthcare	8,011,208	1.3%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Healthcare	8,011,208	221.4%	2,025.0	15	\$7,894,500	0.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Healthcare	8,011,208	265.7%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Healthcare	8,011,208	131.2%	1,200.0	15	\$3,220,500	0.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Healthcare	8,011,208	15.3%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Healthcare	8,011,208	310.0%	2,835.0	15	\$5,429,793	0.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Healthcare	8,011,208	344.4%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Healthcare	8,011,208	196.8%	1,800.0	15	\$4,830,750	0.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Healthcare	8,011,208	38.8%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Healthcare	8,011,208	541.3%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Healthcare	8,011,208	62.1%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Lodging	-	0.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Lodging	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Lodging	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Lodging	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Lodging	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Lodging	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Lodging	-	0.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Lodging	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Lodging	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Lodging	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Lodging	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Lodging	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Lodging	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Lodging	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Lodging	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Misc.	19,843,605	2.2%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Misc.	19,843,605	2.3%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Misc.	19,843,605	35.3%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Misc.	19,843,605	22.1%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Misc.	19,843,605	22.2%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Misc.	19,843,605	2.6%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Misc.	19,843,605	59.6%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Misc.	19,843,605	5.5%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Misc.	19,843,605	4.3%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Misc.	19,843,605	0.5%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Misc.	19,843,605	89.4%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Misc.	19,843,605	107.3%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Misc.	19,843,605	53.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Misc.	19,843,605	6.2%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Misc.	19,843,605	125.2%	2,835.0	15	\$5,429,793	0.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Misc.	19,843,605	139.1%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Misc.	19,843,605	79.5%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Misc.	19,843,605	15.7%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Misc.	19,843,605	218.5%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Misc.	19,843,605	25.1%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Office	8,949,760	4.8%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Office	8,949,760	4.9%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Office	8,949,760	78.2%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Office	8,949,760	48.9%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Office	8,949,760	49.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Office	8,949,760	5.9%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Office	8,949,760	132.1%	1,350.0	15	\$1,591,725	0.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Office	8,949,760	12.2%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Office	8,949,760	9.6%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Office	8,949,760	1.2%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Office	8,949,760	198.2%	2,025.0	15	\$7,894,500	0.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Office	8,949,760	237.8%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Office	8,949,760	117.5%	1,200.0	15	\$3,220,500	0.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Office	8,949,760	13.7%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Office	8,949,760	277.5%	2,835.0	15	\$5,429,793	0.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Office	8,949,760	308.3%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Office	8,949,760	176.2%	1,800.0	15	\$4,830,750	0.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Office	8,949,760	34.7%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Office	8,949,760	484.5%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Office	8,949,760	55.6%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Other Institutional	-	0.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Other Institutional	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Restaurant	-	0.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Restaurant	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Restaurant	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Restaurant	-	0.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Restaurant	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Restaurant	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Restaurant	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Restaurant	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Retail	-	0.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Retail	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Retail	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Retail	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Retail	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Retail	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Retail	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Retail	-	0.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Retail	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Retail	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Retail	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Retail	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Retail	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Retail	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Retail	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Retail	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Retail	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Retail	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Retail	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Retail	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Commercial	Warehouse	-	0.0%	49.0	10	\$250,135	11.0%	0.34
First Energy: Penn Power	100 kW Micro Turbine (NG)	Commercial	Warehouse	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Commercial	Warehouse	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Commercial	Warehouse	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Commercial	Warehouse	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Commercial	Warehouse	-	0.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: Penn Power	200 kW Micro Turbine	Commercial	Warehouse	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Commercial	Warehouse	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.86
First Energy: Penn Power	3500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Commercial	Warehouse	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Commercial	Warehouse	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Chemicals	4,805,266	8.9%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mfg: Chemicals	4,805,266	8.9%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mfg: Chemicals	4,805,266	145.6%	798.8	10	\$5,020,313	0.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Chemicals	4,805,266	91.2%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Chemicals	4,805,266	91.2%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mfg: Chemicals	4,805,266	10.9%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mfg: Chemicals	4,805,266	246.1%	1,350.0	15	\$1,591,725	0.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mfg: Chemicals	4,805,266	22.7%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mfg: Chemicals	4,805,266	17.9%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mfg: Chemicals	4,805,266	2.2%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mfg: Chemicals	4,805,266	369.2%	2,025.0	15	\$7,894,500	0.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mfg: Chemicals	4,805,266	443.0%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mfg: Chemicals	4,805,266	218.8%	1,200.0	15	\$3,220,500	0.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mfg: Chemicals	4,805,266	25.5%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mfg: Chemicals	4,805,266	516.8%	2,835.0	15	\$5,429,793	0.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mfg: Chemicals	4,805,266	574.2%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mfg: Chemicals	4,805,266	328.1%	1,800.0	15	\$4,830,750	0.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mfg: Chemicals	4,805,266	64.7%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mfg: Chemicals	4,805,266	902.4%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mfg: Chemicals	4,805,266	103.5%	568.0	10	\$3,884,840	0.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Computers & Electronics	-	0.0%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mfg: Computers & Electronics	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Computers & Electronics	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Computers & Electronics	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Food	19,510,828	2.2%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mfg: Food	19,510,828	2.2%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mfg: Food	19,510,828	35.9%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Food	19,510,828	22.4%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Food	19,510,828	22.5%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mfg: Food	19,510,828	2.7%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mfg: Food	19,510,828	60.6%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mfg: Food	19,510,828	5.6%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mfg: Food	19,510,828	4.4%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mfg: Food	19,510,828	0.6%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mfg: Food	19,510,828	90.9%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mfg: Food	19,510,828	109.1%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mfg: Food	19,510,828	53.9%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mfg: Food	19,510,828	6.3%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mfg: Food	19,510,828	127.3%	2,835.0	15	\$5,429,793	0.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mfg: Food	19,510,828	141.4%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mfg: Food	19,510,828	80.8%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mfg: Food	19,510,828	15.9%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mfg: Food	19,510,828	222.2%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mfg: Food	19,510,828	25.5%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Metals	73,119,945	0.6%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mfg: Metals	73,119,945	0.6%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mfg: Metals	73,119,945	9.6%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Metals	73,119,945	6.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Metals	73,119,945	6.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mfg: Metals	73,119,945	0.7%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mfg: Metals	73,119,945	16.2%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mfg: Metals	73,119,945	1.5%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mfg: Metals	73,119,945	1.2%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mfg: Metals	73,119,945	0.1%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mfg: Metals	73,119,945	24.3%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mfg: Metals	73,119,945	29.1%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mfg: Metals	73,119,945	14.4%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mfg: Metals	73,119,945	1.7%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mfg: Metals	73,119,945	34.0%	2,835.0	15	\$5,429,793	11.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mfg: Metals	73,119,945	37.7%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mfg: Metals	73,119,945	21.6%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mfg: Metals	73,119,945	4.3%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mfg: Metals	73,119,945	59.3%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mfg: Metals	73,119,945	6.8%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Other	9,700,509	4.4%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mfg: Other	9,700,509	4.4%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mfg: Other	9,700,509	72.1%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Other	9,700,509	45.2%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Other	9,700,509	45.2%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mfg: Other	9,700,509	5.4%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mfg: Other	9,700,509	121.9%	1,350.0	15	\$1,591,725	0.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mfg: Other	9,700,509	11.2%	124.3	10	\$938,613	11.0%	0.34

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mfg: Other	9,700,509	8.8%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mfg: Other	9,700,509	1.1%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mfg: Other	9,700,509	182.9%	2,025.0	15	\$7,894,500	0.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mfg: Other	9,700,509	219.4%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mfg: Other	9,700,509	108.4%	1,200.0	15	\$3,220,500	0.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mfg: Other	9,700,509	12.6%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mfg: Other	9,700,509	256.0%	2,835.0	15	\$5,429,793	0.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mfg: Other	9,700,509	284.5%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mfg: Other	9,700,509	162.5%	1,800.0	15	\$4,830,750	0.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mfg: Other	9,700,509	32.1%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mfg: Other	9,700,509	447.0%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mfg: Other	9,700,509	51.3%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Paper	5,787,170	7.4%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mfg: Paper	5,787,170	7.4%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mfg: Paper	5,787,170	120.9%	798.8	10	\$5,020,313	0.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Paper	5,787,170	75.7%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Paper	5,787,170	75.7%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mfg: Paper	5,787,170	9.1%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mfg: Paper	5,787,170	204.3%	1,350.0	15	\$1,591,725	0.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mfg: Paper	5,787,170	18.8%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mfg: Paper	5,787,170	14.8%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mfg: Paper	5,787,170	1.9%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mfg: Paper	5,787,170	306.5%	2,025.0	15	\$7,894,500	0.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mfg: Paper	5,787,170	367.8%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mfg: Paper	5,787,170	181.6%	1,200.0	15	\$3,220,500	0.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mfg: Paper	5,787,170	21.2%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mfg: Paper	5,787,170	429.1%	2,835.0	15	\$5,429,793	0.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mfg: Paper	5,787,170	476.8%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mfg: Paper	5,787,170	272.5%	1,800.0	15	\$4,830,750	0.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mfg: Paper	5,787,170	53.7%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mfg: Paper	5,787,170	749.3%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mfg: Paper	5,787,170	86.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Plastics	-	0.0%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mfg: Plastics	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Plastics	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Plastics	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mfg: Plastics	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mfg: Plastics	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mfg: Plastics	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mfg: Plastics	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mfg: Plastics	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mfg: Plastics	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mfg: Plastics	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mfg: Plastics	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Mining	-	0.0%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Mining	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Mining	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Mining	-	0.0%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Mining	-	0.0%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Mining	-	0.0%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Mining	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Mining	-	0.0%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Mining	-	0.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Mining	-	0.0%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Mining	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Mining	-	0.0%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Mining	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Mining	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Mining	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Mining	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: Penn Power	100 kW Micro Turbine (Biogas)	Industrial	Other Non-Mfg	5,044,875	8.5%	49.0	10	\$250,135	11.0%	0.33
First Energy: Penn Power	100 kW Micro Turbine (NG)	Industrial	Other Non-Mfg	5,044,875	8.5%	49.0	10	\$236,550	11.0%	0.49
First Energy: Penn Power	1125 kW Fuel Cell	Industrial	Other Non-Mfg	5,044,875	138.7%	798.8	10	\$5,020,313	0.0%	0.38
First Energy: Penn Power	1250 kW Reciprocating Engine (Biogas)	Industrial	Other Non-Mfg	5,044,875	86.8%	500.0	15	\$1,911,875	11.0%	0.52
First Energy: Penn Power	1250 kW Reciprocating Engine (NG)	Industrial	Other Non-Mfg	5,044,875	86.8%	500.0	15	\$1,947,500	11.0%	0.83
First Energy: Penn Power	150 kW Reciprocating Engine	Industrial	Other Non-Mfg	5,044,875	10.4%	60.0	15	\$314,925	11.0%	0.65
First Energy: Penn Power	1500 kW Steam Turbine	Industrial	Other Non-Mfg	5,044,875	234.4%	1,350.0	15	\$1,591,725	0.0%	1.32
First Energy: Penn Power	175 kW Fuel Cell	Industrial	Other Non-Mfg	5,044,875	21.6%	124.3	10	\$938,613	11.0%	0.34
First Energy: Penn Power	200 kW Micro Turbine	Industrial	Other Non-Mfg	5,044,875	17.0%	98.0	10	\$463,600	11.0%	0.48
First Energy: Penn Power	25 kW Micro Turbine	Industrial	Other Non-Mfg	5,044,875	2.1%	12.3	10	\$70,538	11.0%	0.41
First Energy: Penn Power	2500 kW Gas Turbine	Industrial	Other Non-Mfg	5,044,875	351.6%	2,025.0	15	\$7,894,500	0.0%	0.72
First Energy: Penn Power	3000 kW Gas Turbine	Industrial	Other Non-Mfg	5,044,875	421.9%	2,430.0	15	\$6,609,150	0.0%	0.64
First Energy: Penn Power	3000 kW Reciprocating Engine	Industrial	Other Non-Mfg	5,044,875	208.4%	1,200.0	15	\$3,220,500	0.0%	0.99
First Energy: Penn Power	350 kW Reciprocating Engine	Industrial	Other Non-Mfg	5,044,875	24.3%	140.0	15	\$645,050	11.0%	0.73
First Energy: Penn Power	3500 kW Gas Turbine	Industrial	Other Non-Mfg	5,044,875	492.3%	2,835.0	15	\$5,429,793	0.0%	0.92
First Energy: Penn Power	3500 kW Steam Turbine	Industrial	Other Non-Mfg	5,044,875	547.0%	3,150.0	15	\$1,579,375	0.0%	1.55
First Energy: Penn Power	4500 kW Reciprocating Engine	Industrial	Other Non-Mfg	5,044,875	312.6%	1,800.0	15	\$4,830,750	0.0%	0.83
First Energy: Penn Power	500 kW Fuel Cell	Industrial	Other Non-Mfg	5,044,875	61.6%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: Penn Power	5500 kW Steam Turbine	Industrial	Other Non-Mfg	5,044,875	859.5%	4,950.0	15	\$2,241,525	0.0%	1.62
First Energy: Penn Power	800 kW Fuel Cell	Industrial	Other Non-Mfg	5,044,875	98.6%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Education	49,665,276	0.9%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Education	49,665,276	1.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Education	49,665,276	14.1%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Education	49,665,276	8.8%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Education	49,665,276	8.9%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Education	49,665,276	1.1%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Education	49,665,276	23.8%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Education	49,665,276	2.2%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Education	49,665,276	1.7%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Education	49,665,276	0.2%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Education	49,665,276	35.7%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Education	49,665,276	42.9%	2,430.0	15	\$6,609,150	11.0%	0.60

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Education	49,665,276	21.2%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Education	49,665,276	2.5%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Education	49,665,276	50.0%	2,835.0	15	\$5,429,793	11.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Education	49,665,276	55.6%	3,150.0	15	\$1,579,375	11.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Education	49,665,276	31.7%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Education	49,665,276	6.3%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Education	49,665,276	87.3%	4,950.0	15	\$2,241,525	11.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Education	49,665,276	10.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Government / Public Service	27,164,294	1.6%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Government / Public Service	27,164,294	1.7%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Government / Public Service	27,164,294	25.8%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Government / Public Service	27,164,294	16.1%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Government / Public Service	27,164,294	16.2%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Government / Public Service	27,164,294	1.9%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Government / Public Service	27,164,294	43.5%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Government / Public Service	27,164,294	4.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Government / Public Service	27,164,294	3.2%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Government / Public Service	27,164,294	0.4%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Government / Public Service	27,164,294	65.3%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Government / Public Service	27,164,294	78.4%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Government / Public Service	27,164,294	38.7%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Government / Public Service	27,164,294	4.5%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Government / Public Service	27,164,294	91.4%	2,835.0	15	\$5,429,793	11.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Government / Public Service	27,164,294	101.6%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Government / Public Service	27,164,294	58.0%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Government / Public Service	27,164,294	11.4%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Government / Public Service	27,164,294	159.6%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Government / Public Service	27,164,294	18.3%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Grocery	-	0.0%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Grocery	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Grocery	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Grocery	-	0.0%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Grocery	-	0.0%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Grocery	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Grocery	-	0.0%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Grocery	-	0.0%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Grocery	-	0.0%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Grocery	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Grocery	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Grocery	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Grocery	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Healthcare	11,244,048	3.8%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Healthcare	11,244,048	3.9%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Healthcare	11,244,048	62.2%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Healthcare	11,244,048	39.0%	500.0	15	\$1,911,875	11.0%	0.49

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Healthcare	11,244,048	39.1%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Healthcare	11,244,048	4.7%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Healthcare	11,244,048	105.2%	1,350.0	15	\$1,591,725	0.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Healthcare	11,244,048	9.7%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Healthcare	11,244,048	7.6%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Healthcare	11,244,048	1.0%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Healthcare	11,244,048	157.8%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Healthcare	11,244,048	189.3%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Healthcare	11,244,048	93.5%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Healthcare	11,244,048	10.9%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Healthcare	11,244,048	220.9%	2,835.0	15	\$5,429,793	0.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Healthcare	11,244,048	245.4%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Healthcare	11,244,048	140.2%	1,800.0	15	\$4,830,750	0.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Healthcare	11,244,048	27.7%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Healthcare	11,244,048	385.6%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Healthcare	11,244,048	44.3%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Lodging	11,739,224	3.7%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Lodging	11,739,224	3.8%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Lodging	11,739,224	59.6%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Lodging	11,739,224	37.3%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Lodging	11,739,224	37.4%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Lodging	11,739,224	4.5%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Lodging	11,739,224	100.7%	1,350.0	15	\$1,591,725	0.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Lodging	11,739,224	9.3%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Lodging	11,739,224	7.3%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Lodging	11,739,224	0.9%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Lodging	11,739,224	151.1%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Lodging	11,739,224	181.3%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Lodging	11,739,224	89.5%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Lodging	11,739,224	10.4%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Lodging	11,739,224	211.6%	2,835.0	15	\$5,429,793	0.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Lodging	11,739,224	235.1%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Lodging	11,739,224	134.3%	1,800.0	15	\$4,830,750	0.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Lodging	11,739,224	26.5%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Lodging	11,739,224	369.4%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Lodging	11,739,224	42.4%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Misc.	18,698,159	2.3%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Misc.	18,698,159	2.4%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Misc.	18,698,159	37.4%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Misc.	18,698,159	23.4%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Misc.	18,698,159	23.5%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Misc.	18,698,159	2.8%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Misc.	18,698,159	63.2%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Misc.	18,698,159	5.8%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Misc.	18,698,159	4.6%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Misc.	18,698,159	0.6%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Misc.	18,698,159	94.9%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Misc.	18,698,159	113.8%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Misc.	18,698,159	56.2%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Misc.	18,698,159	6.6%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Misc.	18,698,159	132.8%	2,835.0	15	\$5,429,793	0.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Misc.	18,698,159	147.6%	3,150.0	15	\$1,579,375	0.0%	1.40

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Misc.	18,698,159	84.3%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Misc.	18,698,159	16.6%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Misc.	18,698,159	231.9%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Misc.	18,698,159	26.6%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Office	21,316,532	2.0%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Office	21,316,532	2.1%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Office	21,316,532	32.8%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Office	21,316,532	20.5%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Office	21,316,532	20.6%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Office	21,316,532	2.5%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Office	21,316,532	55.5%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Office	21,316,532	5.1%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Office	21,316,532	4.0%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Office	21,316,532	0.5%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Office	21,316,532	83.2%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Office	21,316,532	99.9%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Office	21,316,532	49.3%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Office	21,316,532	5.8%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Office	21,316,532	116.5%	2,835.0	15	\$5,429,793	0.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Office	21,316,532	129.4%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Office	21,316,532	74.0%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Office	21,316,532	14.6%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Office	21,316,532	203.4%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Office	21,316,532	23.3%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Other Institutional	12,247,867	3.5%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Other Institutional	12,247,867	3.6%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Other Institutional	12,247,867	57.1%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Other Institutional	12,247,867	35.8%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Other Institutional	12,247,867	35.9%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Other Institutional	12,247,867	4.3%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Other Institutional	12,247,867	96.6%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Other Institutional	12,247,867	8.9%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Other Institutional	12,247,867	7.0%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Other Institutional	12,247,867	0.9%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Other Institutional	12,247,867	144.8%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Other Institutional	12,247,867	173.8%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Other Institutional	12,247,867	85.8%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Other Institutional	12,247,867	10.0%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Other Institutional	12,247,867	202.8%	2,835.0	15	\$5,429,793	0.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Other Institutional	12,247,867	225.3%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Other Institutional	12,247,867	128.7%	1,800.0	15	\$4,830,750	0.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Other Institutional	12,247,867	25.4%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Other Institutional	12,247,867	354.0%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Other Institutional	12,247,867	40.6%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Restaurant	-	0.0%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Restaurant	-	0.0%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Restaurant	-	0.0%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Restaurant	-	0.0%	124.3	10	\$938,613	11.0%	0.35

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	200 kW Micro Turbine	Commercial	Restaurant	-	0.0%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Restaurant	-	0.0%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Restaurant	-	0.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Restaurant	-	0.0%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Retail	13,166,247	3.3%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Retail	13,166,247	3.4%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Retail	13,166,247	53.1%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Retail	13,166,247	33.3%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Retail	13,166,247	33.4%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Retail	13,166,247	4.0%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Retail	13,166,247	89.8%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Retail	13,166,247	8.3%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Retail	13,166,247	6.5%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Retail	13,166,247	0.8%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Retail	13,166,247	134.7%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Retail	13,166,247	161.7%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Retail	13,166,247	79.8%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Retail	13,166,247	9.3%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Retail	13,166,247	188.6%	2,835.0	15	\$5,429,793	0.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Retail	13,166,247	209.6%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Retail	13,166,247	119.8%	1,800.0	15	\$4,830,750	0.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Retail	13,166,247	23.6%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Retail	13,166,247	329.3%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Retail	13,166,247	37.8%	568.0	10	\$3,884,840	11.0%	0.32
First Energy: WPP	100 kW Micro Turbine (Biogas)	Commercial	Warehouse	11,388,545	3.8%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Commercial	Warehouse	11,388,545	3.9%	49.0	10	\$236,550	11.0%	0.49
First Energy: WPP	1125 kW Fuel Cell	Commercial	Warehouse	11,388,545	61.4%	798.8	10	\$5,020,313	11.0%	0.38
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Commercial	Warehouse	11,388,545	38.5%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Commercial	Warehouse	11,388,545	38.6%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Commercial	Warehouse	11,388,545	4.6%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Commercial	Warehouse	11,388,545	103.8%	1,350.0	15	\$1,591,725	0.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Commercial	Warehouse	11,388,545	9.6%	124.3	10	\$938,613	11.0%	0.35
First Energy: WPP	200 kW Micro Turbine	Commercial	Warehouse	11,388,545	7.5%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Commercial	Warehouse	11,388,545	0.9%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Commercial	Warehouse	11,388,545	155.8%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Commercial	Warehouse	11,388,545	186.9%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Commercial	Warehouse	11,388,545	92.3%	1,200.0	15	\$3,220,500	11.0%	0.95
First Energy: WPP	350 kW Reciprocating Engine	Commercial	Warehouse	11,388,545	10.8%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Commercial	Warehouse	11,388,545	218.1%	2,835.0	15	\$5,429,793	0.0%	0.93
First Energy: WPP	3500 kW Steam Turbine	Commercial	Warehouse	11,388,545	242.3%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Commercial	Warehouse	11,388,545	138.5%	1,800.0	15	\$4,830,750	0.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Commercial	Warehouse	11,388,545	27.3%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Commercial	Warehouse	11,388,545	380.8%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Commercial	Warehouse	11,388,545	43.7%	568.0	10	\$3,884,840	11.0%	0.32

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Chemicals	18,664,121	2.3%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mfg: Chemicals	18,664,121	2.3%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mfg: Chemicals	18,664,121	37.5%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Chemicals	18,664,121	23.5%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Chemicals	18,664,121	23.5%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mfg: Chemicals	18,664,121	2.8%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mfg: Chemicals	18,664,121	63.4%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mfg: Chemicals	18,664,121	5.8%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mfg: Chemicals	18,664,121	4.6%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mfg: Chemicals	18,664,121	0.6%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mfg: Chemicals	18,664,121	95.0%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mfg: Chemicals	18,664,121	114.1%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mfg: Chemicals	18,664,121	56.3%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mfg: Chemicals	18,664,121	6.6%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mfg: Chemicals	18,664,121	133.1%	2,835.0	15	\$5,429,793	0.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mfg: Chemicals	18,664,121	147.8%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mfg: Chemicals	18,664,121	84.5%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mfg: Chemicals	18,664,121	16.7%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mfg: Chemicals	18,664,121	232.3%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mfg: Chemicals	18,664,121	26.7%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Computers & Electronics	40,956,977	1.0%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mfg: Computers & Electronics	40,956,977	1.1%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	40,956,977	17.1%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Computers & Electronics	40,956,977	10.7%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Computers & Electronics	40,956,977	10.7%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	40,956,977	1.3%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	28.9%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	40,956,977	2.7%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	2.1%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	0.3%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	43.3%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	52.0%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	40,956,977	25.7%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	40,956,977	3.0%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	60.6%	2,835.0	15	\$5,429,793	11.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	67.4%	3,150.0	15	\$1,579,375	11.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	40,956,977	38.5%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	40,956,977	7.6%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	40,956,977	105.9%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	40,956,977	12.1%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Food	13,730,417	3.1%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mfg: Food	13,730,417	3.1%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mfg: Food	13,730,417	51.0%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Food	13,730,417	31.9%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Food	13,730,417	31.9%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mfg: Food	13,730,417	3.8%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mfg: Food	13,730,417	86.1%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mfg: Food	13,730,417	7.9%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mfg: Food	13,730,417	6.3%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mfg: Food	13,730,417	0.8%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mfg: Food	13,730,417	129.2%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mfg: Food	13,730,417	155.0%	2,430.0	15	\$6,609,150	0.0%	0.60

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mfg: Food	13,730,417	76.6%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mfg: Food	13,730,417	8.9%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mfg: Food	13,730,417	180.9%	2,835.0	15	\$5,429,793	0.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mfg: Food	13,730,417	201.0%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mfg: Food	13,730,417	114.8%	1,800.0	15	\$4,830,750	0.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mfg: Food	13,730,417	22.6%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mfg: Food	13,730,417	315.8%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mfg: Food	13,730,417	36.2%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Metals	90,260,963	0.5%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mfg: Metals	90,260,963	0.5%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mfg: Metals	90,260,963	7.8%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Metals	90,260,963	4.9%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Metals	90,260,963	4.9%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mfg: Metals	90,260,963	0.6%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mfg: Metals	90,260,963	13.1%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mfg: Metals	90,260,963	1.2%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mfg: Metals	90,260,963	1.0%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mfg: Metals	90,260,963	0.1%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mfg: Metals	90,260,963	19.7%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mfg: Metals	90,260,963	23.6%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mfg: Metals	90,260,963	11.6%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mfg: Metals	90,260,963	1.4%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mfg: Metals	90,260,963	27.5%	2,835.0	15	\$5,429,793	11.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mfg: Metals	90,260,963	30.6%	3,150.0	15	\$1,579,375	11.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mfg: Metals	90,260,963	17.5%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mfg: Metals	90,260,963	3.4%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mfg: Metals	90,260,963	48.0%	4,950.0	15	\$2,241,525	11.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mfg: Metals	90,260,963	5.5%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Other	11,410,436	3.8%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mfg: Other	11,410,436	3.8%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mfg: Other	11,410,436	61.3%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Other	11,410,436	38.4%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Other	11,410,436	38.4%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mfg: Other	11,410,436	4.6%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mfg: Other	11,410,436	103.6%	1,350.0	15	\$1,591,725	0.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mfg: Other	11,410,436	9.5%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mfg: Other	11,410,436	7.5%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mfg: Other	11,410,436	0.9%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mfg: Other	11,410,436	155.5%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mfg: Other	11,410,436	186.6%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mfg: Other	11,410,436	92.1%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mfg: Other	11,410,436	10.7%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mfg: Other	11,410,436	217.6%	2,835.0	15	\$5,429,793	0.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mfg: Other	11,410,436	241.8%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mfg: Other	11,410,436	138.2%	1,800.0	15	\$4,830,750	0.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mfg: Other	11,410,436	27.3%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mfg: Other	11,410,436	380.0%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mfg: Other	11,410,436	43.6%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Paper	26,084,826	1.6%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mfg: Paper	26,084,826	1.7%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mfg: Paper	26,084,826	26.8%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Paper	26,084,826	16.8%	500.0	15	\$1,911,875	11.0%	0.49

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Paper	26,084,826	16.8%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mfg: Paper	26,084,826	2.0%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mfg: Paper	26,084,826	45.3%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mfg: Paper	26,084,826	4.2%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mfg: Paper	26,084,826	3.3%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mfg: Paper	26,084,826	0.4%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mfg: Paper	26,084,826	68.0%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mfg: Paper	26,084,826	81.6%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mfg: Paper	26,084,826	40.3%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mfg: Paper	26,084,826	4.7%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mfg: Paper	26,084,826	95.2%	2,835.0	15	\$5,429,793	11.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mfg: Paper	26,084,826	105.8%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mfg: Paper	26,084,826	60.4%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mfg: Paper	26,084,826	11.9%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mfg: Paper	26,084,826	166.2%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mfg: Paper	26,084,826	19.1%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Plastics	26,143,339	1.6%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mfg: Plastics	26,143,339	1.7%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mfg: Plastics	26,143,339	26.8%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Plastics	26,143,339	16.8%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Plastics	26,143,339	16.8%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mfg: Plastics	26,143,339	2.0%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mfg: Plastics	26,143,339	45.2%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mfg: Plastics	26,143,339	4.2%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mfg: Plastics	26,143,339	3.3%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mfg: Plastics	26,143,339	0.4%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mfg: Plastics	26,143,339	67.9%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mfg: Plastics	26,143,339	81.4%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mfg: Plastics	26,143,339	40.2%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mfg: Plastics	26,143,339	4.7%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mfg: Plastics	26,143,339	95.0%	2,835.0	15	\$5,429,793	11.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mfg: Plastics	26,143,339	105.5%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mfg: Plastics	26,143,339	60.3%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mfg: Plastics	26,143,339	11.9%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mfg: Plastics	26,143,339	165.9%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mfg: Plastics	26,143,339	19.0%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Mining	96,961,506	0.4%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Mining	96,961,506	0.5%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Mining	96,961,506	7.2%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Mining	96,961,506	4.5%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Mining	96,961,506	4.5%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Mining	96,961,506	0.5%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Mining	96,961,506	12.2%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Mining	96,961,506	1.1%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Mining	96,961,506	0.9%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Mining	96,961,506	0.1%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Mining	96,961,506	18.3%	2,025.0	15	\$7,894,500	11.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Mining	96,961,506	22.0%	2,430.0	15	\$6,609,150	11.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Mining	96,961,506	10.8%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Mining	96,961,506	1.3%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Mining	96,961,506	25.6%	2,835.0	15	\$5,429,793	11.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Mining	96,961,506	28.5%	3,150.0	15	\$1,579,375	11.0%	1.40

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Mining	96,961,506	16.3%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Mining	96,961,506	3.2%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Mining	96,961,506	44.7%	4,950.0	15	\$2,241,525	11.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Mining	96,961,506	5.1%	568.0	10	\$3,884,840	11.0%	0.31
First Energy: WPP	100 kW Micro Turbine (Biogas)	Industrial	Other Non-Mfg	16,405,902	2.6%	49.0	10	\$250,135	11.0%	0.33
First Energy: WPP	100 kW Micro Turbine (NG)	Industrial	Other Non-Mfg	16,405,902	2.6%	49.0	10	\$236,550	11.0%	0.48
First Energy: WPP	1125 kW Fuel Cell	Industrial	Other Non-Mfg	16,405,902	42.6%	798.8	10	\$5,020,313	11.0%	0.37
First Energy: WPP	1250 kW Reciprocating Engine (Biogas)	Industrial	Other Non-Mfg	16,405,902	26.7%	500.0	15	\$1,911,875	11.0%	0.49
First Energy: WPP	1250 kW Reciprocating Engine (NG)	Industrial	Other Non-Mfg	16,405,902	26.7%	500.0	15	\$1,947,500	11.0%	0.81
First Energy: WPP	150 kW Reciprocating Engine	Industrial	Other Non-Mfg	16,405,902	3.2%	60.0	15	\$314,925	11.0%	0.63
First Energy: WPP	1500 kW Steam Turbine	Industrial	Other Non-Mfg	16,405,902	72.1%	1,350.0	15	\$1,591,725	11.0%	1.22
First Energy: WPP	175 kW Fuel Cell	Industrial	Other Non-Mfg	16,405,902	6.6%	124.3	10	\$938,613	11.0%	0.34
First Energy: WPP	200 kW Micro Turbine	Industrial	Other Non-Mfg	16,405,902	5.2%	98.0	10	\$463,600	11.0%	0.47
First Energy: WPP	25 kW Micro Turbine	Industrial	Other Non-Mfg	16,405,902	0.7%	12.3	10	\$70,538	11.0%	0.40
First Energy: WPP	2500 kW Gas Turbine	Industrial	Other Non-Mfg	16,405,902	108.1%	2,025.0	15	\$7,894,500	0.0%	0.69
First Energy: WPP	3000 kW Gas Turbine	Industrial	Other Non-Mfg	16,405,902	129.8%	2,430.0	15	\$6,609,150	0.0%	0.60
First Energy: WPP	3000 kW Reciprocating Engine	Industrial	Other Non-Mfg	16,405,902	64.1%	1,200.0	15	\$3,220,500	11.0%	0.94
First Energy: WPP	350 kW Reciprocating Engine	Industrial	Other Non-Mfg	16,405,902	7.5%	140.0	15	\$645,050	11.0%	0.71
First Energy: WPP	3500 kW Gas Turbine	Industrial	Other Non-Mfg	16,405,902	151.4%	2,835.0	15	\$5,429,793	0.0%	0.88
First Energy: WPP	3500 kW Steam Turbine	Industrial	Other Non-Mfg	16,405,902	168.2%	3,150.0	15	\$1,579,375	0.0%	1.40
First Energy: WPP	4500 kW Reciprocating Engine	Industrial	Other Non-Mfg	16,405,902	96.1%	1,800.0	15	\$4,830,750	11.0%	0.97
First Energy: WPP	500 kW Fuel Cell	Industrial	Other Non-Mfg	16,405,902	19.0%	355.0	10	\$2,371,500	11.0%	0.36
First Energy: WPP	5500 kW Steam Turbine	Industrial	Other Non-Mfg	16,405,902	264.3%	4,950.0	15	\$2,241,525	0.0%	1.46
First Energy: WPP	800 kW Fuel Cell	Industrial	Other Non-Mfg	16,405,902	30.3%	568.0	10	\$3,884,840	11.0%	0.31
PECO	100 kW Micro Turbine (Biogas)	Commercial	Education	29,211,265	1.5%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Education	29,211,265	1.6%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Commercial	Education	29,211,265	24.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Education	29,211,265	15.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Education	29,211,265	15.1%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Commercial	Education	29,211,265	1.8%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Commercial	Education	29,211,265	40.5%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Commercial	Education	29,211,265	3.7%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Education	29,211,265	2.9%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Education	29,211,265	0.4%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Education	29,211,265	60.7%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Commercial	Education	29,211,265	72.9%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Education	29,211,265	36.0%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Commercial	Education	29,211,265	4.2%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Education	29,211,265	85.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Education	29,211,265	94.5%	3,150.0	15	\$1,579,375	11.0%	1.25
PECO	4500 kW Reciprocating Engine	Commercial	Education	29,211,265	54.0%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Education	29,211,265	10.6%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Education	29,211,265	148.4%	4,950.0	15	\$2,241,525	0.0%	1.30
PECO	800 kW Fuel Cell	Commercial	Education	29,211,265	17.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Government / Public Service	35,357,227	1.2%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Government / Public Service	35,357,227	1.3%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Government / Public Service	35,357,227	19.8%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Government / Public Service	35,357,227	12.4%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Government / Public Service	35,357,227	12.5%	500.0	15	\$1,947,500	11.0%	0.75
PECO	150 kW Reciprocating Engine	Commercial	Government / Public Service	35,357,227	1.5%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Government / Public Service	35,357,227	33.4%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Government / Public Service	35,357,227	3.1%	124.3	10	\$938,613	11.0%	0.33

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	200 kW Micro Turbine	Commercial	Government / Public Service	35,357,227	2.4%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Government / Public Service	35,357,227	0.3%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Government / Public Service	35,357,227	50.2%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Government / Public Service	35,357,227	60.2%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Government / Public Service	35,357,227	29.7%	1,200.0	15	\$3,220,500	11.0%	0.87
PECO	350 kW Reciprocating Engine	Commercial	Government / Public Service	35,357,227	3.5%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Government / Public Service	35,357,227	70.2%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Government / Public Service	35,357,227	78.0%	3,150.0	15	\$1,579,375	11.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Government / Public Service	35,357,227	44.6%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Government / Public Service	35,357,227	8.8%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Government / Public Service	35,357,227	122.6%	4,950.0	15	\$2,241,525	0.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Government / Public Service	35,357,227	14.1%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Grocery	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Grocery	-	0.0%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Grocery	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Grocery	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Grocery	-	0.0%	500.0	15	\$1,947,500	11.0%	0.75
PECO	150 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Grocery	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Grocery	-	0.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Grocery	-	0.0%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Grocery	-	0.0%	12.3	10	\$70,538	11.0%	0.38
PECO	2500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.87
PECO	350 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Grocery	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.95
PECO	3500 kW Steam Turbine	Commercial	Grocery	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.23
PECO	4500 kW Reciprocating Engine	Commercial	Grocery	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Grocery	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Grocery	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Grocery	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Healthcare	23,384,069	1.8%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Healthcare	23,384,069	1.9%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Healthcare	23,384,069	29.9%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Healthcare	23,384,069	18.7%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Healthcare	23,384,069	18.8%	500.0	15	\$1,947,500	11.0%	0.75
PECO	150 kW Reciprocating Engine	Commercial	Healthcare	23,384,069	2.2%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Healthcare	23,384,069	50.6%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Healthcare	23,384,069	4.7%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Healthcare	23,384,069	3.7%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Healthcare	23,384,069	0.5%	12.3	10	\$70,538	11.0%	0.38
PECO	2500 kW Gas Turbine	Commercial	Healthcare	23,384,069	75.9%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Healthcare	23,384,069	91.0%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Healthcare	23,384,069	45.0%	1,200.0	15	\$3,220,500	11.0%	0.87
PECO	350 kW Reciprocating Engine	Commercial	Healthcare	23,384,069	5.2%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Healthcare	23,384,069	106.2%	2,835.0	15	\$5,429,793	0.0%	0.95
PECO	3500 kW Steam Turbine	Commercial	Healthcare	23,384,069	118.0%	3,150.0	15	\$1,579,375	0.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Healthcare	23,384,069	67.4%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Healthcare	23,384,069	13.3%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Healthcare	23,384,069	185.4%	4,950.0	15	\$2,241,525	0.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Healthcare	23,384,069	21.3%	568.0	10	\$3,884,840	11.0%	0.30

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	100 kW Micro Turbine (Biogas)	Commercial	Lodging	20,350,400	2.1%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Lodging	20,350,400	2.2%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Lodging	20,350,400	34.4%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Lodging	20,350,400	21.5%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Lodging	20,350,400	21.6%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Commercial	Lodging	20,350,400	2.6%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Lodging	20,350,400	58.1%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Lodging	20,350,400	5.3%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Lodging	20,350,400	4.2%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Lodging	20,350,400	0.5%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Lodging	20,350,400	87.2%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Lodging	20,350,400	104.6%	2,430.0	15	\$6,609,150	0.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Lodging	20,350,400	51.7%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Commercial	Lodging	20,350,400	6.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Lodging	20,350,400	122.0%	2,835.0	15	\$5,429,793	0.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Lodging	20,350,400	135.6%	3,150.0	15	\$1,579,375	0.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Lodging	20,350,400	77.5%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Lodging	20,350,400	15.3%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Lodging	20,350,400	213.1%	4,950.0	15	\$2,241,525	0.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Lodging	20,350,400	24.5%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Misc.	23,606,064	1.8%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Misc.	23,606,064	1.9%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Misc.	23,606,064	29.6%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Misc.	23,606,064	18.6%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Misc.	23,606,064	18.7%	500.0	15	\$1,947,500	11.0%	0.75
PECO	150 kW Reciprocating Engine	Commercial	Misc.	23,606,064	2.2%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Misc.	23,606,064	50.1%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Misc.	23,606,064	4.6%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Misc.	23,606,064	3.6%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Misc.	23,606,064	0.5%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Misc.	23,606,064	75.1%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Misc.	23,606,064	90.2%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Misc.	23,606,064	44.5%	1,200.0	15	\$3,220,500	11.0%	0.87
PECO	350 kW Reciprocating Engine	Commercial	Misc.	23,606,064	5.2%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Misc.	23,606,064	105.2%	2,835.0	15	\$5,429,793	0.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Misc.	23,606,064	116.9%	3,150.0	15	\$1,579,375	0.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Misc.	23,606,064	66.8%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Misc.	23,606,064	13.2%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Misc.	23,606,064	183.7%	4,950.0	15	\$2,241,525	0.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Misc.	23,606,064	21.1%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Office	28,610,244	1.5%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Office	28,610,244	1.6%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Office	28,610,244	24.5%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Office	28,610,244	15.3%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Office	28,610,244	15.4%	500.0	15	\$1,947,500	11.0%	0.75
PECO	150 kW Reciprocating Engine	Commercial	Office	28,610,244	1.8%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Office	28,610,244	41.3%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Office	28,610,244	3.8%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Office	28,610,244	3.0%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Office	28,610,244	0.4%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Office	28,610,244	62.0%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Office	28,610,244	74.4%	2,430.0	15	\$6,609,150	11.0%	0.54

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	3000 kW Reciprocating Engine	Commercial	Office	28,610,244	36.7%	1,200.0	15	\$3,220,500	11.0%	0.87
PECO	350 kW Reciprocating Engine	Commercial	Office	28,610,244	4.3%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Office	28,610,244	86.8%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Office	28,610,244	96.4%	3,150.0	15	\$1,579,375	11.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Office	28,610,244	55.1%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Office	28,610,244	10.9%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Office	28,610,244	151.6%	4,950.0	15	\$2,241,525	0.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Office	28,610,244	17.4%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Other Institutional	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Other Institutional	-	0.0%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,947,500	11.0%	0.75
PECO	150 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.87
PECO	350 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Restaurant	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Restaurant	-	0.0%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Restaurant	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,947,500	11.0%	0.75
PECO	150 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Restaurant	-	0.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Restaurant	-	0.0%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Restaurant	-	0.0%	12.3	10	\$70,538	11.0%	0.38
PECO	2500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.87
PECO	350 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Restaurant	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Restaurant	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Retail	32,778,179	1.3%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Retail	32,778,179	1.4%	49.0	10	\$236,550	11.0%	0.46
PECO	1125 kW Fuel Cell	Commercial	Retail	32,778,179	21.3%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Retail	32,778,179	13.4%	500.0	15	\$1,911,875	11.0%	0.45

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Retail	32,778,179	13.5%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Commercial	Retail	32,778,179	1.6%	60.0	15	\$314,925	11.0%	0.59
PECO	1500 kW Steam Turbine	Commercial	Retail	32,778,179	36.1%	1,350.0	15	\$1,591,725	11.0%	1.09
PECO	175 kW Fuel Cell	Commercial	Retail	32,778,179	3.3%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Commercial	Retail	32,778,179	2.6%	98.0	10	\$463,600	11.0%	0.45
PECO	25 kW Micro Turbine	Commercial	Retail	32,778,179	0.3%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Retail	32,778,179	54.1%	2,025.0	15	\$7,894,500	11.0%	0.64
PECO	3000 kW Gas Turbine	Commercial	Retail	32,778,179	64.9%	2,430.0	15	\$6,609,150	11.0%	0.54
PECO	3000 kW Reciprocating Engine	Commercial	Retail	32,778,179	32.1%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Commercial	Retail	32,778,179	3.7%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Retail	32,778,179	75.8%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Retail	32,778,179	84.2%	3,150.0	15	\$1,579,375	11.0%	1.24
PECO	4500 kW Reciprocating Engine	Commercial	Retail	32,778,179	48.1%	1,800.0	15	\$4,830,750	11.0%	0.90
PECO	500 kW Fuel Cell	Commercial	Retail	32,778,179	9.5%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Commercial	Retail	32,778,179	132.3%	4,950.0	15	\$2,241,525	0.0%	1.29
PECO	800 kW Fuel Cell	Commercial	Retail	32,778,179	15.2%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Commercial	Warehouse	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Commercial	Warehouse	-	0.0%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Commercial	Warehouse	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Commercial	Warehouse	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Commercial	Warehouse	-	0.0%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Commercial	Warehouse	-	0.0%	124.3	10	\$938,613	11.0%	0.34
PECO	200 kW Micro Turbine	Commercial	Warehouse	-	0.0%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Commercial	Warehouse	-	0.0%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.55
PECO	3000 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Commercial	Warehouse	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.25
PECO	4500 kW Reciprocating Engine	Commercial	Warehouse	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.91
PECO	500 kW Fuel Cell	Commercial	Warehouse	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
PECO	5500 kW Steam Turbine	Commercial	Warehouse	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.30
PECO	800 kW Fuel Cell	Commercial	Warehouse	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Chemicals	25,711,114	1.7%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mfg: Chemicals	25,711,114	1.7%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mfg: Chemicals	25,711,114	27.2%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Chemicals	25,711,114	17.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Chemicals	25,711,114	17.0%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,711,114	2.0%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mfg: Chemicals	25,711,114	46.0%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mfg: Chemicals	25,711,114	4.2%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Mfg: Chemicals	25,711,114	3.3%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mfg: Chemicals	25,711,114	0.4%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mfg: Chemicals	25,711,114	69.0%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mfg: Chemicals	25,711,114	82.8%	2,430.0	15	\$6,609,150	11.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,711,114	40.9%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,711,114	4.8%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mfg: Chemicals	25,711,114	96.6%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mfg: Chemicals	25,711,114	107.3%	3,150.0	15	\$1,579,375	0.0%	1.25

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	4500 kW Reciprocating Engine	Industrial	Mfg: Chemicals	25,711,114	61.3%	1,800.0	15	\$4,830,750	11.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mfg: Chemicals	25,711,114	12.1%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mfg: Chemicals	25,711,114	168.7%	4,950.0	15	\$2,241,525	0.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mfg: Chemicals	25,711,114	19.4%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Computers & Electronics	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mfg: Computers & Electronics	-	0.0%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Computers & Electronics	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Computers & Electronics	-	0.0%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Food	13,615,275	3.2%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mfg: Food	13,615,275	3.2%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mfg: Food	13,615,275	51.4%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Food	13,615,275	32.2%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Food	13,615,275	32.2%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mfg: Food	13,615,275	3.9%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mfg: Food	13,615,275	86.9%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mfg: Food	13,615,275	8.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Mfg: Food	13,615,275	6.3%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mfg: Food	13,615,275	0.8%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mfg: Food	13,615,275	130.3%	2,025.0	15	\$7,894,500	0.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mfg: Food	13,615,275	156.3%	2,430.0	15	\$6,609,150	0.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mfg: Food	13,615,275	77.2%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mfg: Food	13,615,275	9.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mfg: Food	13,615,275	182.4%	2,835.0	15	\$5,429,793	0.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mfg: Food	13,615,275	202.7%	3,150.0	15	\$1,579,375	0.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Mfg: Food	13,615,275	115.8%	1,800.0	15	\$4,830,750	0.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mfg: Food	13,615,275	22.8%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mfg: Food	13,615,275	318.5%	4,950.0	15	\$2,241,525	0.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mfg: Food	13,615,275	36.5%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Metals	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mfg: Metals	-	0.0%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mfg: Metals	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Metals	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Metals	-	0.0%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mfg: Metals	-	0.0%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mfg: Metals	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mfg: Metals	-	0.0%	124.3	10	\$938,613	11.0%	0.33

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	200 kW Micro Turbine	Industrial	Mfg: Metals	-	0.0%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mfg: Metals	-	0.0%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mfg: Metals	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mfg: Metals	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mfg: Metals	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mfg: Metals	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mfg: Metals	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mfg: Metals	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Mfg: Metals	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mfg: Metals	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mfg: Metals	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mfg: Metals	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Other	10,300,032	4.2%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mfg: Other	10,300,032	4.2%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mfg: Other	10,300,032	67.9%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Other	10,300,032	42.5%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Other	10,300,032	42.5%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mfg: Other	10,300,032	5.1%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mfg: Other	10,300,032	114.8%	1,350.0	15	\$1,591,725	0.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mfg: Other	10,300,032	10.6%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Mfg: Other	10,300,032	8.3%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mfg: Other	10,300,032	1.0%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mfg: Other	10,300,032	172.2%	2,025.0	15	\$7,894,500	0.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mfg: Other	10,300,032	206.7%	2,430.0	15	\$6,609,150	0.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mfg: Other	10,300,032	102.1%	1,200.0	15	\$3,220,500	0.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mfg: Other	10,300,032	11.9%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mfg: Other	10,300,032	241.1%	2,835.0	15	\$5,429,793	0.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mfg: Other	10,300,032	267.9%	3,150.0	15	\$1,579,375	0.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Mfg: Other	10,300,032	153.1%	1,800.0	15	\$4,830,750	0.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mfg: Other	10,300,032	30.2%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mfg: Other	10,300,032	421.0%	4,950.0	15	\$2,241,525	0.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mfg: Other	10,300,032	48.3%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Paper	9,878,416	4.3%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mfg: Paper	9,878,416	4.4%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mfg: Paper	9,878,416	70.8%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Paper	9,878,416	44.3%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Paper	9,878,416	44.3%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mfg: Paper	9,878,416	5.3%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mfg: Paper	9,878,416	119.7%	1,350.0	15	\$1,591,725	0.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mfg: Paper	9,878,416	11.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Mfg: Paper	9,878,416	8.7%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mfg: Paper	9,878,416	1.1%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mfg: Paper	9,878,416	179.6%	2,025.0	15	\$7,894,500	0.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mfg: Paper	9,878,416	215.5%	2,430.0	15	\$6,609,150	0.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mfg: Paper	9,878,416	106.4%	1,200.0	15	\$3,220,500	0.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mfg: Paper	9,878,416	12.4%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mfg: Paper	9,878,416	251.4%	2,835.0	15	\$5,429,793	0.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mfg: Paper	9,878,416	279.3%	3,150.0	15	\$1,579,375	0.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Mfg: Paper	9,878,416	159.6%	1,800.0	15	\$4,830,750	0.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mfg: Paper	9,878,416	31.5%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mfg: Paper	9,878,416	439.0%	4,950.0	15	\$2,241,525	0.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mfg: Paper	9,878,416	50.4%	568.0	10	\$3,884,840	11.0%	0.30

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Plastics	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mfg: Plastics	-	0.0%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Plastics	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Plastics	-	0.0%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mfg: Plastics	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Mfg: Plastics	-	0.0%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mfg: Plastics	-	0.0%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mfg: Plastics	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mfg: Plastics	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mfg: Plastics	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mfg: Plastics	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Mfg: Plastics	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mfg: Plastics	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mfg: Plastics	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Mining	-	0.0%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Mining	-	0.0%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Mining	-	0.0%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Mining	-	0.0%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Mining	-	0.0%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Mining	-	0.0%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Mining	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Mining	-	0.0%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Mining	-	0.0%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Mining	-	0.0%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Mining	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.55
PECO	3000 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Mining	-	0.0%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Mining	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Mining	-	0.0%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Mining	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Mining	-	0.0%	568.0	10	\$3,884,840	11.0%	0.30
PECO	100 kW Micro Turbine (Biogas)	Industrial	Other Non-Mfg	34,889,636	1.2%	49.0	10	\$250,135	11.0%	0.31
PECO	100 kW Micro Turbine (NG)	Industrial	Other Non-Mfg	34,889,636	1.2%	49.0	10	\$236,550	11.0%	0.47
PECO	1125 kW Fuel Cell	Industrial	Other Non-Mfg	34,889,636	20.1%	798.8	10	\$5,020,313	11.0%	0.36
PECO	1250 kW Reciprocating Engine (Biogas)	Industrial	Other Non-Mfg	34,889,636	12.6%	500.0	15	\$1,911,875	11.0%	0.45
PECO	1250 kW Reciprocating Engine (NG)	Industrial	Other Non-Mfg	34,889,636	12.6%	500.0	15	\$1,947,500	11.0%	0.76
PECO	150 kW Reciprocating Engine	Industrial	Other Non-Mfg	34,889,636	1.5%	60.0	15	\$314,925	11.0%	0.60
PECO	1500 kW Steam Turbine	Industrial	Other Non-Mfg	34,889,636	33.9%	1,350.0	15	\$1,591,725	11.0%	1.10
PECO	175 kW Fuel Cell	Industrial	Other Non-Mfg	34,889,636	3.1%	124.3	10	\$938,613	11.0%	0.33
PECO	200 kW Micro Turbine	Industrial	Other Non-Mfg	34,889,636	2.5%	98.0	10	\$463,600	11.0%	0.46
PECO	25 kW Micro Turbine	Industrial	Other Non-Mfg	34,889,636	0.3%	12.3	10	\$70,538	11.0%	0.39
PECO	2500 kW Gas Turbine	Industrial	Other Non-Mfg	34,889,636	50.8%	2,025.0	15	\$7,894,500	11.0%	0.65
PECO	3000 kW Gas Turbine	Industrial	Other Non-Mfg	34,889,636	61.0%	2,430.0	15	\$6,609,150	11.0%	0.55

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PECO	3000 kW Reciprocating Engine	Industrial	Other Non-Mfg	34,889,636	30.1%	1,200.0	15	\$3,220,500	11.0%	0.88
PECO	350 kW Reciprocating Engine	Industrial	Other Non-Mfg	34,889,636	3.5%	140.0	15	\$645,050	11.0%	0.67
PECO	3500 kW Gas Turbine	Industrial	Other Non-Mfg	34,889,636	71.2%	2,835.0	15	\$5,429,793	11.0%	0.96
PECO	3500 kW Steam Turbine	Industrial	Other Non-Mfg	34,889,636	79.1%	3,150.0	15	\$1,579,375	11.0%	1.25
PECO	4500 kW Reciprocating Engine	Industrial	Other Non-Mfg	34,889,636	45.2%	1,800.0	15	\$4,830,750	11.0%	0.91
PECO	500 kW Fuel Cell	Industrial	Other Non-Mfg	34,889,636	8.9%	355.0	10	\$2,371,500	11.0%	0.34
PECO	5500 kW Steam Turbine	Industrial	Other Non-Mfg	34,889,636	124.3%	4,950.0	15	\$2,241,525	0.0%	1.30
PECO	800 kW Fuel Cell	Industrial	Other Non-Mfg	34,889,636	14.3%	568.0	10	\$3,884,840	11.0%	0.30
PPL	100 kW Micro Turbine (Biogas)	Commercial	Education	16,256,548	2.6%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Education	16,256,548	2.7%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Education	16,256,548	43.0%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Education	16,256,548	26.9%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Education	16,256,548	27.0%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Education	16,256,548	3.2%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Education	16,256,548	72.7%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Education	16,256,548	6.7%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Education	16,256,548	5.3%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Education	16,256,548	0.7%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Education	16,256,548	109.1%	2,025.0	15	\$7,894,500	0.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Education	16,256,548	130.9%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Education	16,256,548	64.7%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Education	16,256,548	7.5%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Education	16,256,548	152.8%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Education	16,256,548	169.7%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Education	16,256,548	97.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Education	16,256,548	19.1%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Education	16,256,548	266.7%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Education	16,256,548	30.6%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Government / Public Service	18,766,740	2.3%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Government / Public Service	18,766,740	2.4%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Government / Public Service	18,766,740	37.3%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Government / Public Service	18,766,740	23.3%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Government / Public Service	18,766,740	23.4%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Government / Public Service	18,766,740	2.8%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Government / Public Service	18,766,740	63.0%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Government / Public Service	18,766,740	5.8%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Government / Public Service	18,766,740	4.6%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Government / Public Service	18,766,740	0.6%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Government / Public Service	18,766,740	94.5%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Government / Public Service	18,766,740	113.4%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Government / Public Service	18,766,740	56.0%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Government / Public Service	18,766,740	6.5%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Government / Public Service	18,766,740	132.3%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Government / Public Service	18,766,740	147.0%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Government / Public Service	18,766,740	84.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Government / Public Service	18,766,740	16.6%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Government / Public Service	18,766,740	231.1%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Government / Public Service	18,766,740	26.5%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Grocery	23,040,000	1.9%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Grocery	23,040,000	2.0%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Grocery	23,040,000	30.4%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Grocery	23,040,000	19.0%	500.0	15	\$1,911,875	11.0%	0.47

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Grocery	23,040,000	19.1%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Grocery	23,040,000	2.3%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Grocery	23,040,000	51.3%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Grocery	23,040,000	4.7%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Grocery	23,040,000	3.7%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Grocery	23,040,000	0.5%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Grocery	23,040,000	77.0%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Grocery	23,040,000	92.4%	2,430.0	15	\$6,609,150	11.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Grocery	23,040,000	45.6%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Grocery	23,040,000	5.3%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Grocery	23,040,000	107.8%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Grocery	23,040,000	119.8%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Grocery	23,040,000	68.4%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Grocery	23,040,000	13.5%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Grocery	23,040,000	188.2%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Grocery	23,040,000	21.6%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Healthcare	14,360,702	3.0%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Healthcare	14,360,702	3.1%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Healthcare	14,360,702	48.7%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Healthcare	14,360,702	30.5%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Healthcare	14,360,702	30.6%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Healthcare	14,360,702	3.7%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Healthcare	14,360,702	82.3%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Healthcare	14,360,702	7.6%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Healthcare	14,360,702	6.0%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Healthcare	14,360,702	0.7%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Healthcare	14,360,702	123.5%	2,025.0	15	\$7,894,500	0.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Healthcare	14,360,702	148.2%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Healthcare	14,360,702	73.2%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Healthcare	14,360,702	8.5%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Healthcare	14,360,702	172.9%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Healthcare	14,360,702	192.1%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Healthcare	14,360,702	109.8%	1,800.0	15	\$4,830,750	0.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Healthcare	14,360,702	21.7%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Healthcare	14,360,702	301.9%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Healthcare	14,360,702	34.6%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Lodging	19,506,233	2.2%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Lodging	19,506,233	2.3%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Lodging	19,506,233	35.9%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Lodging	19,506,233	22.5%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Lodging	19,506,233	22.6%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Lodging	19,506,233	2.7%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Lodging	19,506,233	60.6%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Lodging	19,506,233	5.6%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Lodging	19,506,233	4.4%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Lodging	19,506,233	0.6%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Lodging	19,506,233	90.9%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Lodging	19,506,233	109.1%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Lodging	19,506,233	53.9%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Lodging	19,506,233	6.3%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Lodging	19,506,233	127.3%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Lodging	19,506,233	141.5%	3,150.0	15	\$1,579,375	0.0%	1.31

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	4500 kW Reciprocating Engine	Commercial	Lodging	19,506,233	80.8%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Lodging	19,506,233	15.9%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Lodging	19,506,233	222.3%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Lodging	19,506,233	25.5%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Misc.	18,467,119	2.3%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Misc.	18,467,119	2.4%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Misc.	18,467,119	37.9%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Misc.	18,467,119	23.7%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Misc.	18,467,119	23.8%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Misc.	18,467,119	2.8%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Misc.	18,467,119	64.0%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Misc.	18,467,119	5.9%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Misc.	18,467,119	4.6%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Misc.	18,467,119	0.6%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Misc.	18,467,119	96.1%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Misc.	18,467,119	115.3%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Misc.	18,467,119	56.9%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Misc.	18,467,119	6.6%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Misc.	18,467,119	134.5%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Misc.	18,467,119	149.4%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Misc.	18,467,119	85.4%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Misc.	18,467,119	16.8%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Misc.	18,467,119	234.8%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Misc.	18,467,119	26.9%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Office	15,742,047	2.7%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Office	15,742,047	2.8%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Office	15,742,047	44.4%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Office	15,742,047	27.8%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Office	15,742,047	27.9%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Office	15,742,047	3.3%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Office	15,742,047	75.1%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Office	15,742,047	6.9%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Office	15,742,047	5.5%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Office	15,742,047	0.7%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Office	15,742,047	112.7%	2,025.0	15	\$7,894,500	0.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Office	15,742,047	135.2%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Office	15,742,047	66.8%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Office	15,742,047	7.8%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Office	15,742,047	157.8%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Office	15,742,047	175.3%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Office	15,742,047	100.2%	1,800.0	15	\$4,830,750	0.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Office	15,742,047	19.8%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Office	15,742,047	275.5%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Office	15,742,047	31.6%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Other Institutional	-	0.0%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Other Institutional	-	0.0%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Other Institutional	-	0.0%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	124.3	10	\$938,613	11.0%	0.34

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	200 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Other Institutional	-	0.0%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Other Institutional	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Other Institutional	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Other Institutional	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Other Institutional	-	0.0%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Restaurant	-	0.0%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Restaurant	-	0.0%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Restaurant	-	0.0%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Restaurant	-	0.0%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Restaurant	-	0.0%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Restaurant	-	0.0%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Restaurant	-	0.0%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Restaurant	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Restaurant	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Restaurant	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Restaurant	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Restaurant	-	0.0%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Commercial	Retail	19,003,600	2.3%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Retail	19,003,600	2.4%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Retail	19,003,600	36.8%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Retail	19,003,600	23.0%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Retail	19,003,600	23.1%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Retail	19,003,600	2.8%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Retail	19,003,600	62.2%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Retail	19,003,600	5.7%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Retail	19,003,600	4.5%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Retail	19,003,600	0.6%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Retail	19,003,600	93.3%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Retail	19,003,600	112.0%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Retail	19,003,600	55.3%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Retail	19,003,600	6.5%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Retail	19,003,600	130.7%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Retail	19,003,600	145.2%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Retail	19,003,600	83.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Retail	19,003,600	16.4%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Retail	19,003,600	228.2%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Retail	19,003,600	26.2%	568.0	10	\$3,884,840	11.0%	0.31

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	100 kW Micro Turbine (Biogas)	Commercial	Warehouse	15,356,575	2.8%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Commercial	Warehouse	15,356,575	2.9%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Commercial	Warehouse	15,356,575	45.6%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Commercial	Warehouse	15,356,575	28.5%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Commercial	Warehouse	15,356,575	28.6%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Commercial	Warehouse	15,356,575	3.4%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Commercial	Warehouse	15,356,575	77.0%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Commercial	Warehouse	15,356,575	7.1%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Commercial	Warehouse	15,356,575	5.6%	98.0	10	\$463,600	11.0%	0.47
PPL	25 kW Micro Turbine	Commercial	Warehouse	15,356,575	0.7%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Commercial	Warehouse	15,356,575	115.5%	2,025.0	15	\$7,894,500	0.0%	0.67
PPL	3000 kW Gas Turbine	Commercial	Warehouse	15,356,575	138.6%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Commercial	Warehouse	15,356,575	68.5%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Commercial	Warehouse	15,356,575	8.0%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Commercial	Warehouse	15,356,575	161.7%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Commercial	Warehouse	15,356,575	179.7%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Commercial	Warehouse	15,356,575	102.7%	1,800.0	15	\$4,830,750	0.0%	0.93
PPL	500 kW Fuel Cell	Commercial	Warehouse	15,356,575	20.3%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Commercial	Warehouse	15,356,575	282.4%	4,950.0	15	\$2,241,525	0.0%	1.37
PPL	800 kW Fuel Cell	Commercial	Warehouse	15,356,575	32.4%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Chemicals	40,847,826	1.1%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mfg: Chemicals	40,847,826	1.1%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mfg: Chemicals	40,847,826	17.1%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Chemicals	40,847,826	10.7%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Chemicals	40,847,826	10.7%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,847,826	1.3%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mfg: Chemicals	40,847,826	29.0%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mfg: Chemicals	40,847,826	2.7%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mfg: Chemicals	40,847,826	2.1%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mfg: Chemicals	40,847,826	0.3%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mfg: Chemicals	40,847,826	43.4%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mfg: Chemicals	40,847,826	52.1%	2,430.0	15	\$6,609,150	11.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,847,826	25.7%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,847,826	3.0%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mfg: Chemicals	40,847,826	60.8%	2,835.0	15	\$5,429,793	11.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mfg: Chemicals	40,847,826	67.6%	3,150.0	15	\$1,579,375	11.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Mfg: Chemicals	40,847,826	38.6%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mfg: Chemicals	40,847,826	7.6%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mfg: Chemicals	40,847,826	106.2%	4,950.0	15	\$2,241,525	0.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mfg: Chemicals	40,847,826	12.2%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Computers & Electronics	29,773,200	1.4%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mfg: Computers & Electronics	29,773,200	1.5%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	29,773,200	23.5%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Computers & Electronics	29,773,200	14.7%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Computers & Electronics	29,773,200	14.7%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	29,773,200	1.8%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	39.7%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	29,773,200	3.7%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	2.9%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	0.4%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	59.6%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	71.5%	2,430.0	15	\$6,609,150	11.0%	0.57

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	3000 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	29,773,200	35.3%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	29,773,200	4.1%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	83.4%	2,835.0	15	\$5,429,793	11.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	92.7%	3,150.0	15	\$1,579,375	11.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Mfg: Computers & Electronics	29,773,200	53.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	29,773,200	10.4%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mfg: Computers & Electronics	29,773,200	145.6%	4,950.0	15	\$2,241,525	0.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mfg: Computers & Electronics	29,773,200	16.7%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Food	19,553,536	2.2%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mfg: Food	19,553,536	2.2%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mfg: Food	19,553,536	35.8%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Food	19,553,536	22.4%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Food	19,553,536	22.4%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mfg: Food	19,553,536	2.7%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mfg: Food	19,553,536	60.5%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mfg: Food	19,553,536	5.6%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mfg: Food	19,553,536	4.4%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mfg: Food	19,553,536	0.5%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mfg: Food	19,553,536	90.7%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mfg: Food	19,553,536	108.9%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Mfg: Food	19,553,536	53.8%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mfg: Food	19,553,536	6.3%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mfg: Food	19,553,536	127.0%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mfg: Food	19,553,536	141.1%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Mfg: Food	19,553,536	80.6%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mfg: Food	19,553,536	15.9%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mfg: Food	19,553,536	221.8%	4,950.0	15	\$2,241,525	0.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mfg: Food	19,553,536	25.4%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Metals	45,261,237	0.9%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mfg: Metals	45,261,237	1.0%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mfg: Metals	45,261,237	15.5%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Metals	45,261,237	9.7%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Metals	45,261,237	9.7%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mfg: Metals	45,261,237	1.2%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mfg: Metals	45,261,237	26.1%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mfg: Metals	45,261,237	2.4%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mfg: Metals	45,261,237	1.9%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mfg: Metals	45,261,237	0.2%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mfg: Metals	45,261,237	39.2%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mfg: Metals	45,261,237	47.0%	2,430.0	15	\$6,609,150	11.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Mfg: Metals	45,261,237	23.2%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mfg: Metals	45,261,237	2.7%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mfg: Metals	45,261,237	54.9%	2,835.0	15	\$5,429,793	11.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mfg: Metals	45,261,237	61.0%	3,150.0	15	\$1,579,375	11.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Mfg: Metals	45,261,237	34.8%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mfg: Metals	45,261,237	6.9%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mfg: Metals	45,261,237	95.8%	4,950.0	15	\$2,241,525	11.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mfg: Metals	45,261,237	11.0%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Other	18,129,220	2.4%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mfg: Other	18,129,220	2.4%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mfg: Other	18,129,220	38.6%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Other	18,129,220	24.2%	500.0	15	\$1,911,875	11.0%	0.47

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Other	18,129,220	24.2%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mfg: Other	18,129,220	2.9%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mfg: Other	18,129,220	65.2%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mfg: Other	18,129,220	6.0%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mfg: Other	18,129,220	4.7%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mfg: Other	18,129,220	0.6%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mfg: Other	18,129,220	97.8%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mfg: Other	18,129,220	117.4%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Mfg: Other	18,129,220	58.0%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mfg: Other	18,129,220	6.8%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mfg: Other	18,129,220	137.0%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mfg: Other	18,129,220	152.2%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Mfg: Other	18,129,220	87.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mfg: Other	18,129,220	17.2%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mfg: Other	18,129,220	239.2%	4,950.0	15	\$2,241,525	0.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mfg: Other	18,129,220	27.4%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Paper	16,281,853	2.6%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mfg: Paper	16,281,853	2.6%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mfg: Paper	16,281,853	43.0%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Paper	16,281,853	26.9%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Paper	16,281,853	26.9%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mfg: Paper	16,281,853	3.2%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mfg: Paper	16,281,853	72.6%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mfg: Paper	16,281,853	6.7%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mfg: Paper	16,281,853	5.3%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mfg: Paper	16,281,853	0.7%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mfg: Paper	16,281,853	108.9%	2,025.0	15	\$7,894,500	0.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mfg: Paper	16,281,853	130.7%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Mfg: Paper	16,281,853	64.6%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mfg: Paper	16,281,853	7.5%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mfg: Paper	16,281,853	152.5%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mfg: Paper	16,281,853	169.5%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Mfg: Paper	16,281,853	96.8%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mfg: Paper	16,281,853	19.1%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mfg: Paper	16,281,853	266.3%	4,950.0	15	\$2,241,525	0.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mfg: Paper	16,281,853	30.6%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mfg: Plastics	39,068,321	1.1%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mfg: Plastics	39,068,321	1.1%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mfg: Plastics	39,068,321	17.9%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mfg: Plastics	39,068,321	11.2%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mfg: Plastics	39,068,321	11.2%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mfg: Plastics	39,068,321	1.3%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mfg: Plastics	39,068,321	30.3%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mfg: Plastics	39,068,321	2.8%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mfg: Plastics	39,068,321	2.2%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mfg: Plastics	39,068,321	0.3%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mfg: Plastics	39,068,321	45.4%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mfg: Plastics	39,068,321	54.5%	2,430.0	15	\$6,609,150	11.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Mfg: Plastics	39,068,321	26.9%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mfg: Plastics	39,068,321	3.1%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mfg: Plastics	39,068,321	63.6%	2,835.0	15	\$5,429,793	11.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mfg: Plastics	39,068,321	70.6%	3,150.0	15	\$1,579,375	11.0%	1.31

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	4500 kW Reciprocating Engine	Industrial	Mfg: Plastics	39,068,321	40.4%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mfg: Plastics	39,068,321	8.0%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mfg: Plastics	39,068,321	111.0%	4,950.0	15	\$2,241,525	0.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mfg: Plastics	39,068,321	12.7%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Mining	-	0.0%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Mining	-	0.0%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Mining	-	0.0%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Mining	-	0.0%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Mining	-	0.0%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Mining	-	0.0%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Mining	-	0.0%	1,350.0	15	\$1,591,725	11.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Mining	-	0.0%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Mining	-	0.0%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Mining	-	0.0%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,025.0	15	\$7,894,500	11.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Mining	-	0.0%	2,430.0	15	\$6,609,150	11.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,200.0	15	\$3,220,500	11.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Mining	-	0.0%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Mining	-	0.0%	2,835.0	15	\$5,429,793	11.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Mining	-	0.0%	3,150.0	15	\$1,579,375	11.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Mining	-	0.0%	1,800.0	15	\$4,830,750	11.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Mining	-	0.0%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Mining	-	0.0%	4,950.0	15	\$2,241,525	11.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Mining	-	0.0%	568.0	10	\$3,884,840	11.0%	0.31
PPL	100 kW Micro Turbine (Biogas)	Industrial	Other Non-Mfg	8,168,545	5.3%	49.0	10	\$250,135	11.0%	0.32
PPL	100 kW Micro Turbine (NG)	Industrial	Other Non-Mfg	8,168,545	5.3%	49.0	10	\$236,550	11.0%	0.48
PPL	1125 kW Fuel Cell	Industrial	Other Non-Mfg	8,168,545	85.7%	798.8	10	\$5,020,313	11.0%	0.37
PPL	1250 kW Reciprocating Engine (Biogas)	Industrial	Other Non-Mfg	8,168,545	53.6%	500.0	15	\$1,911,875	11.0%	0.47
PPL	1250 kW Reciprocating Engine (NG)	Industrial	Other Non-Mfg	8,168,545	53.6%	500.0	15	\$1,947,500	11.0%	0.78
PPL	150 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,168,545	6.4%	60.0	15	\$314,925	11.0%	0.61
PPL	1500 kW Steam Turbine	Industrial	Other Non-Mfg	8,168,545	144.8%	1,350.0	15	\$1,591,725	0.0%	1.15
PPL	175 kW Fuel Cell	Industrial	Other Non-Mfg	8,168,545	13.3%	124.3	10	\$938,613	11.0%	0.34
PPL	200 kW Micro Turbine	Industrial	Other Non-Mfg	8,168,545	10.5%	98.0	10	\$463,600	11.0%	0.46
PPL	25 kW Micro Turbine	Industrial	Other Non-Mfg	8,168,545	1.3%	12.3	10	\$70,538	11.0%	0.40
PPL	2500 kW Gas Turbine	Industrial	Other Non-Mfg	8,168,545	217.2%	2,025.0	15	\$7,894,500	0.0%	0.67
PPL	3000 kW Gas Turbine	Industrial	Other Non-Mfg	8,168,545	260.6%	2,430.0	15	\$6,609,150	0.0%	0.57
PPL	3000 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,168,545	128.7%	1,200.0	15	\$3,220,500	0.0%	0.91
PPL	350 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,168,545	15.0%	140.0	15	\$645,050	11.0%	0.69
PPL	3500 kW Gas Turbine	Industrial	Other Non-Mfg	8,168,545	304.0%	2,835.0	15	\$5,429,793	0.0%	0.97
PPL	3500 kW Steam Turbine	Industrial	Other Non-Mfg	8,168,545	337.8%	3,150.0	15	\$1,579,375	0.0%	1.31
PPL	4500 kW Reciprocating Engine	Industrial	Other Non-Mfg	8,168,545	193.0%	1,800.0	15	\$4,830,750	0.0%	0.93
PPL	500 kW Fuel Cell	Industrial	Other Non-Mfg	8,168,545	38.1%	355.0	10	\$2,371,500	11.0%	0.35
PPL	5500 kW Steam Turbine	Industrial	Other Non-Mfg	8,168,545	530.8%	4,950.0	15	\$2,241,525	0.0%	1.36
PPL	800 kW Fuel Cell	Industrial	Other Non-Mfg	8,168,545	60.9%	568.0	10	\$3,884,840	11.0%	0.31

APPENDIX D

SOLAR PV ASSUMPTIONS BY EDC

Appendix D Notes

- Technology research is presented in the following tables. Technology savings, costs, EULs and TRC ratios are presented by EDC by sector and by segment.
- Solar PV incremental costs and TRC values reflect first-year (2016) equipment and installation costs as well as the 15-year measure life benefit limitation in accordance with PA's TRC Order.
- Where baseline energy (kWh) is shown as "0" or "-", the SWE team found that the baseline electricity load for that segment (or building type) was not sufficiently large enough to be eligible for the respective distributed generation technology. For example, in Duquesne's service territory, the SWE team found that there were no restaurant customers with a building energy load large enough to support a rooftop 500 kW Solar PV installation. Therefore, the baseline energy (kWh) was set to zero so no potential would be calculated.

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
Duquesne	Rooftop 500 kW PV	Commercial	Education	41,475,136	2.1%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Government / Public Service	14,215,506	6.0%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Grocery	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Healthcare	21,348,921	4.0%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Lodging	9,316,900	9.2%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Misc.	13,894,556	6.2%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Office	16,453,039	5.2%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Other Institutional	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Restaurant	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Retail	18,619,467	4.6%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Rooftop 500 kW PV	Commercial	Warehouse	9,465,680	9.1%	103.0	15	\$1,465,533	60.3%	0.36
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Education	1,739,192	0.3%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Government / Public Service	2,273,671	0.2%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Grocery	3,804,428	0.1%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Healthcare	1,469,966	0.3%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Lodging	2,130,383	0.2%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Misc.	2,013,722	0.2%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Office	1,853,860	0.3%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Other Institutional	1,612,774	0.3%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Restaurant	1,739,225	0.3%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Retail	2,514,975	0.2%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Small Business Rooftop 3.2 kW PV	Commercial	Small Warehouse	1,985,267	0.2%	0.7	15	\$9,439	60.3%	0.32
Duquesne	Rooftop 500 kW PV	Industrial	Mfg: Chemicals	40,267,699	2.1%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Mfg: Computers & Electronics	50,112,000	1.7%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Mfg: Food	-	0.0%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Mfg: Metals	87,362,000	1.0%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Mfg: Other	54,909,900	1.6%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Mfg: Paper	6,561,653	13.1%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Mfg: Plastics	22,337,000	3.8%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Mining	-	0.0%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Rooftop 500 kW PV	Industrial	Other Non-Mfg	23,053,640	3.7%	103.0	15	\$1,465,533	62.7%	0.36
Duquesne	Residential Rooftop 3.2 kW PV	Residential	Multifamily	6,455	75.7%	0.7	15	\$9,439	22.2%	0.32
Duquesne	Residential Rooftop 3.2 kW PV	Residential	SF-Attached	8,467	57.7%	0.7	15	\$9,439	22.2%	0.32
Duquesne	Residential Rooftop 3.2 kW PV	Residential	SF-Detached	9,183	53.2%	0.7	15	\$9,439	22.2%	0.32
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Education	13,719,665	6.2%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Government / Public Service	7,175,374	11.9%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Grocery	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Healthcare	13,984,975	6.1%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Lodging	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Misc.	569,352,907	0.2%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Office	14,275,966	6.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Other Institutional	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Restaurant	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Retail	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Commercial	Warehouse	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Education	1,686,391	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Government / Public Service	1,973,835	0.2%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Grocery	3,160,208	0.2%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Healthcare	1,601,043	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Lodging	1,396,441	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Misc.	1,685,006	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Office	2,135,257	0.2%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Other Institutional	1,187,459	0.4%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Restaurant	-	0.0%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Retail	3,455,348	0.1%	0.7	15	\$9,439	60.3%	0.32

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Met Ed	Small Business Rooftop 3.2 kW PV	Commercial	Small Warehouse	-	0.0%	0.7	15	\$9,439	60.3%	0.32
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mfg: Chemicals	16,955,639	5.1%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mfg: Computers & Electronics	189,903,926	0.5%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mfg: Food	12,431,209	6.9%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mfg: Metals	113,520,720	0.8%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mfg: Other	17,158,467	5.0%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mfg: Paper	7,616,550	11.3%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mfg: Plastics	36,264,056	2.4%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Mining	49,479,411	1.7%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Rooftop 500 kW PV	Industrial	Other Non-Mfg	7,085,044	12.1%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Met Ed	Residential Rooftop 3.2 kW PV	Residential	Multifamily	8,432	57.9%	0.7	15	\$9,439	22.2%	0.32
First Energy: Met Ed	Residential Rooftop 3.2 kW PV	Residential	SF-Attached	42,921	11.4%	0.7	15	\$9,439	22.2%	0.32
First Energy: Met Ed	Residential Rooftop 3.2 kW PV	Residential	SF-Detached	12,392	39.4%	0.7	15	\$9,439	22.2%	0.32
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Education	17,995,053	4.8%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Government / Public Service	13,037,094	6.6%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Grocery	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Healthcare	12,027,748	7.1%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Lodging	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Misc.	17,611,024	4.9%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Office	10,681,019	8.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Other Institutional	11,362,843	7.5%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Restaurant	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Retail	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Commercial	Warehouse	9,717,787	8.8%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Education	1,268,017	0.4%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Government / Public Service	1,880,220	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Grocery	3,673,873	0.1%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Healthcare	1,572,202	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Lodging	997,953	0.5%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Misc.	1,553,120	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Office	1,884,054	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Other Institutional	2,317,973	0.2%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Restaurant	1,277,080	0.4%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Retail	3,064,153	0.2%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Small Business Rooftop 3.2 kW PV	Commercial	Small Warehouse	1,881,801	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mfg: Chemicals	25,714,884	3.3%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mfg: Computers & Electronics	105,550,560	0.8%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mfg: Food	18,755,056	4.6%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mfg: Metals	48,032,853	1.8%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mfg: Other	18,579,312	4.6%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mfg: Paper	23,469,373	3.7%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mfg: Plastics	27,176,238	3.2%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Mining	22,844,194	3.8%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Rooftop 500 kW PV	Industrial	Other Non-Mfg	8,615,345	9.9%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: Penelec	Residential Rooftop 3.2 kW PV	Residential	Multifamily	6,759	72.3%	0.7	15	\$9,439	22.2%	0.32
First Energy: Penelec	Residential Rooftop 3.2 kW PV	Residential	SF-Attached	8,952	54.6%	0.7	15	\$9,439	22.2%	0.32
First Energy: Penelec	Residential Rooftop 3.2 kW PV	Residential	SF-Detached	10,063	48.5%	0.7	15	\$9,439	22.2%	0.32
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Education	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Government / Public Service	14,548,659	5.9%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Grocery	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Healthcare	8,011,208	10.7%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Lodging	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Misc.	19,843,605	4.3%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Office	8,949,760	9.6%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Other Institutional	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Restaurant	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Retail	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Commercial	Warehouse	-	0.0%	103.0	15	\$1,465,533	60.3%	0.35
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Education	1,479,958	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Government / Public Service	1,932,821	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Grocery	3,426,376	0.1%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Healthcare	1,432,032	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Lodging	1,588,278	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Misc.	1,798,467	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Office	2,116,820	0.2%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Other Institutional	1,615,200	0.3%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Restaurant	-	0.0%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Retail	3,464,647	0.1%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Small Business Rooftop 3.2 kW PV	Commercial	Small Warehouse	2,224,640	0.2%	0.7	15	\$9,439	60.3%	0.32
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mfg: Chemicals	4,805,266	17.8%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mfg: Computers & Electronics	-	0.0%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mfg: Food	19,510,828	4.4%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mfg: Metals	73,119,945	1.2%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mfg: Other	9,700,509	8.8%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mfg: Paper	5,787,170	14.8%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mfg: Plastics	-	0.0%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Mining	-	0.0%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Rooftop 500 kW PV	Industrial	Other Non-Mfg	5,044,875	17.0%	103.0	15	\$1,465,533	62.7%	0.35
First Energy: Penn Power	Residential Rooftop 3.2 kW PV	Residential	Multifamily	8,710	56.1%	0.7	15	\$9,439	22.2%	0.32
First Energy: Penn Power	Residential Rooftop 3.2 kW PV	Residential	SF-Attached	12,375	39.5%	0.7	15	\$9,439	22.2%	0.32
First Energy: Penn Power	Residential Rooftop 3.2 kW PV	Residential	SF-Detached	792	0.0%	0.7	15	\$9,439	22.2%	0.32
First Energy: WPP	Rooftop 500 kW PV	Commercial	Education	49,665,276	1.7%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Government / Public Service	27,164,294	3.2%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Grocery	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Healthcare	11,244,048	7.6%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Lodging	11,739,224	7.3%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Misc.	18,698,159	4.6%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Office	21,316,532	4.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Other Institutional	12,247,867	7.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Restaurant	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Retail	13,166,247	6.5%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Rooftop 500 kW PV	Commercial	Warehouse	11,388,545	7.5%	103.0	15	\$1,465,533	60.3%	0.36
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Education	1,530,063	0.3%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Government / Public Service	1,407,302	0.3%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Grocery	4,029,669	0.1%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Healthcare	1,460,745	0.3%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Lodging	1,097,398	0.4%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Misc.	1,427,243	0.3%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Office	1,596,744	0.3%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Other Institutional	2,049,407	0.2%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Restaurant	1,804,417	0.3%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Retail	3,191,356	0.2%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Small Business Rooftop 3.2 kW PV	Commercial	Small Warehouse	1,839,999	0.3%	0.7	15	\$9,439	60.3%	0.33
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mfg: Chemicals	18,664,121	4.6%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mfg: Computers & Electronics	40,956,977	2.1%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mfg: Food	13,730,417	6.2%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mfg: Metals	90,260,963	0.9%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mfg: Other	11,410,436	7.5%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mfg: Paper	26,084,826	3.3%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mfg: Plastics	26,143,339	3.3%	103.0	15	\$1,465,533	62.7%	0.36

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
First Energy: WPP	Rooftop 500 kW PV	Industrial	Mining	96,961,506	0.9%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Rooftop 500 kW PV	Industrial	Other Non-Mfg	16,405,902	5.2%	103.0	15	\$1,465,533	62.7%	0.36
First Energy: WPP	Residential Rooftop 3.2 kW PV	Residential	Multifamily	7,942	61.5%	0.7	15	\$9,439	22.2%	0.33
First Energy: WPP	Residential Rooftop 3.2 kW PV	Residential	SF-Attached	11,471	42.6%	0.7	15	\$9,439	22.2%	0.33
First Energy: WPP	Residential Rooftop 3.2 kW PV	Residential	SF-Detached	13,277	36.8%	0.7	15	\$9,439	22.2%	0.33
PECO	Rooftop 500 kW PV	Commercial	Education	29,211,265	2.9%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Government / Public Service	35,357,227	2.4%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Grocery	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Healthcare	23,384,069	3.7%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Lodging	20,350,400	4.2%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Misc.	23,606,064	3.6%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Office	28,610,244	3.0%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Other Institutional	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Restaurant	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Retail	32,778,179	2.6%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Rooftop 500 kW PV	Commercial	Warehouse	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Education	2,148,459	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Government / Public Service	2,444,993	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Grocery	3,282,722	0.1%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Healthcare	1,921,647	0.3%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Lodging	2,065,191	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Misc.	2,125,325	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Office	2,193,270	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Other Institutional	2,380,042	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Restaurant	2,047,684	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Retail	2,967,126	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Small Business Rooftop 3.2 kW PV	Commercial	Small Warehouse	2,152,437	0.2%	0.7	15	\$9,439	60.3%	0.32
PECO	Rooftop 500 kW PV	Industrial	Mfg: Chemicals	25,711,114	3.3%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Mfg: Computers & Electronics	-	0.0%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Mfg: Food	13,615,275	6.3%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Mfg: Metals	-	0.0%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Mfg: Other	10,300,032	8.3%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Mfg: Paper	9,878,416	8.7%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Mfg: Plastics	-	0.0%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Mining	-	0.0%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Rooftop 500 kW PV	Industrial	Other Non-Mfg	34,889,636	2.5%	103.0	15	\$1,465,533	62.7%	0.36
PECO	Residential Rooftop 3.2 kW PV	Residential	Multifamily	7,238	67.5%	0.7	15	\$9,439	22.2%	0.32
PECO	Residential Rooftop 3.2 kW PV	Residential	SF-Attached	8,910	54.8%	0.7	15	\$9,439	22.2%	0.32
PECO	Residential Rooftop 3.2 kW PV	Residential	SF-Detached	10,779	45.3%	0.7	15	\$9,439	22.2%	0.32
PPL	Rooftop 500 kW PV	Commercial	Education	16,256,548	5.3%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Government / Public Service	18,766,740	4.6%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Grocery	23,040,000	3.7%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Healthcare	14,360,702	6.0%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Lodging	19,506,233	4.4%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Misc.	18,467,119	4.6%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Office	15,742,047	5.4%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Other Institutional	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Restaurant	-	0.0%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Retail	19,003,600	4.5%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Rooftop 500 kW PV	Commercial	Warehouse	15,356,575	5.6%	103.0	15	\$1,465,533	60.3%	0.36
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Education	1,590,033	0.3%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Government / Public Service	2,344,880	0.2%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Grocery	3,809,991	0.1%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Healthcare	1,391,624	0.4%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Lodging	1,282,991	0.4%	0.7	15	\$9,439	60.3%	0.33

EDC	Measure Name	Sector	Segment	Baseline Energy (kWh)	Energy Savings %	Demand Savings (kW)	EUL (years)	Incr. Cost (\$)	Applicability	TRC Ratio
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Misc.	1,779,914	0.3%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Office	1,977,840	0.2%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Other Institutional	1,449,004	0.3%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Restaurant	1,900,942	0.3%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Retail	2,759,182	0.2%	0.7	15	\$9,439	60.3%	0.33
PPL	Small Business Rooftop 3.2 kW PV	Commercial	Small Warehouse	1,965,407	0.2%	0.7	15	\$9,439	60.3%	0.33
PPL	Rooftop 500 kW PV	Industrial	Mfg: Chemicals	40,847,826	2.1%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Mfg: Computers & Electronics	29,773,200	2.9%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Mfg: Food	19,553,536	4.4%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Mfg: Metals	45,261,237	1.9%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Mfg: Other	18,129,220	4.7%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Mfg: Paper	16,281,853	5.3%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Mfg: Plastics	39,068,321	2.2%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Mining	-	0.0%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Rooftop 500 kW PV	Industrial	Other Non-Mfg	8,168,545	10.5%	103.0	15	\$1,465,533	62.7%	0.36
PPL	Residential Rooftop 3.2 kW PV	Residential	Multifamily	7,769	62.9%	0.7	15	\$9,439	22.2%	0.33
PPL	Residential Rooftop 3.2 kW PV	Residential	SF-Attached	10,323	47.3%	0.7	15	\$9,439	22.2%	0.33
PPL	Residential Rooftop 3.2 kW PV	Residential	SF-Detached	11,650	41.9%	0.7	15	\$9,439	22.2%	0.33