

# Annual Savings Report

## State of Ohio Standard Forms and Documents

Project Name Springfield Local School District  
Project Number 1385

Date July 15, 2020

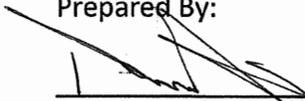
Project Summary	
School District Name	Springfield Local School District
State Project Number (SN)	1385
Total Project Cost (\$)	\$3,873,294
Length of Contract Term (years)	15
Construction Started / Completed	April 2016 – February 2018
Reporting Year (1, 2, or 3)	2
OFCC Submitted Annual Energy Savings (\$)	\$239,424
Guaranteed Annual Energy Savings (\$)	\$236,438
Normalized Post Project Savings	\$321,037
ESCO Name	Energy Optimizers USA
ESCO Address	632 East First Street Dayton, OH 45402
ESCO Phone Number	(937) 877-1919
ESCO Contact Person	Tanner Ayers
ESCO E-mail Address	tayers@energyoptusa.com

At a minimum, the following items must be included in the annual report in order to support the summary table above. Additional information may be included and the items below are in no particular order within your report.

Please check that the following are included in the report.

- ✓ Baseline utility tables (gas, electric, water/sewage, etc.) including rates
- ✓ Actual monthly utility data for the current year
- ✓ List of Adjustments from baseline to current year and the supporting documentation
- ✓ Adjusted utility tables for the current reporting year
- ✓ Conclusion as to whether the project has its savings projection
- ✓ Conclusion as to whether the project has met its guarantee (for projects approved after September 2013)
- ✓ In case of shortfall, what measures are proposed to remedy the shortfall (if applicable)

Prepared By:



Tanner Ayers, Energy Engineer  
Energy Optimizers, USA

7/15/2020

Date

Certified By:



Ryan Lockwood, Treasurer  
Springfield Local School District

8/18/20

Date

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# 1 Annual Savings Summary

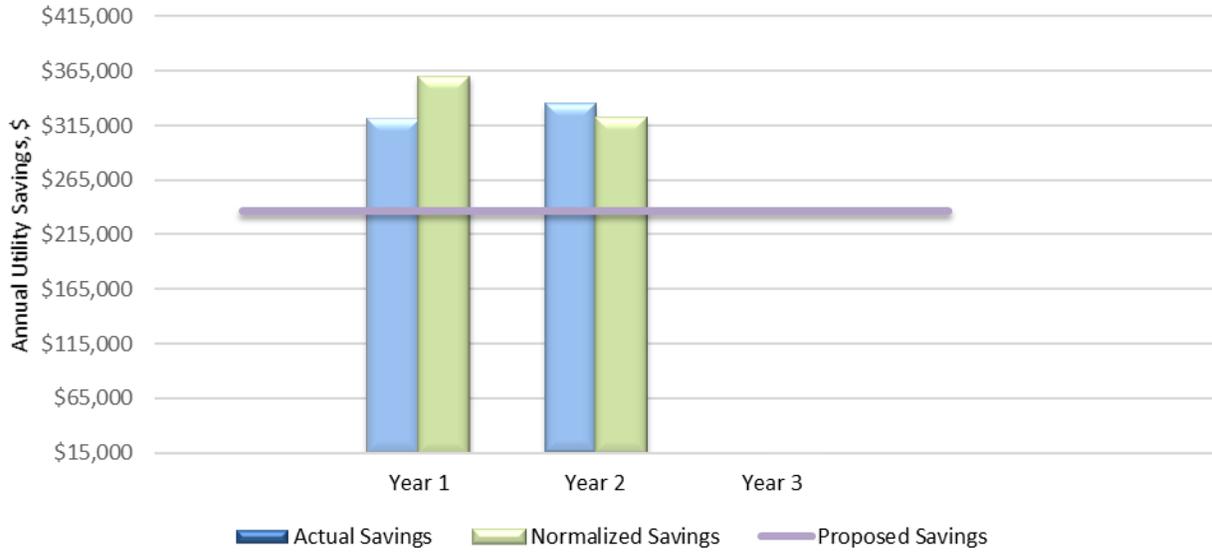
Below is a quick overview of the House Bill Project completed at Springfield Local Schools.

Springfield Local Schools	Benchmark	Proposed		Actual Post-Project			Normalized Post-Project		
	Consumption & Costs	Consumption & Costs	Savings	Consumption & Costs	Savings	% Change to Benchmark	Consumption & Costs	Normalized Savings	% Change to Benchmark
<b>Electric</b>									
Annual Usage, kWh	5,676,376	4,259,082	1,417,294	3,176,489	2,499,887	-44.0%	2,924,299	2,752,077	-48.5%
Annual Cost, \$	\$515,857	\$365,559	\$150,298	\$341,257	\$174,600	-33.8%	\$266,914	\$248,943	-48.3%
<b>Fuel</b>									
Annual Usage, MMBtu	33,705	23,703	10,002	19,316	14,388	-42.7%	24,281	9,424	-28.0%
Annual Cost, \$	\$259,661	\$182,281	\$77,380	\$99,178	\$160,484	-61.8%	\$187,567	\$72,094	-27.8%
<b>Water</b>			\$8,760						
<b>Total Annual Utility Cost</b>	<b>\$775,518</b>	<b>\$547,840</b>	<b>\$236,438</b>	<b>\$440,435</b>	<b>\$335,084</b>	<b>-43.2%</b>	<b>\$454,482</b>	<b>\$321,037</b>	<b>-41.4%</b>
<b>Weather</b>									
Cooling Degree Days, CDD	635			1,021			60.8%		
Heating Degree Days, HDD	7,126			5,536			-22.3%		

\*Normalized savings are adjusted for pricing, weather conditions, and major facility changes to ensure an “apples to apples” comparison with benchmark data.

\*\*HDD/CDD – Are a measurement of heating and cooling loads and are defined as the amount of degrees per day that the average temperature deviates from 65 F. For example, a cold day with an average temperature of 20 F would have 45 degree-days for that day (65 F – 20 F).

### Springfield Local Schools



	Guaranteed Savings	OFCC Approved	Actual Savings	Normalized Savings
Electric	\$150,298	\$156,151	\$174,600	\$248,943
Natural Gas	\$77,380	\$71,487	\$160,484	\$72,094
Water	\$8,760	\$11,786	NA	
<b>Total Savings</b>	<b>\$236,438</b>	<b>\$239,424</b>	<b>\$335,084</b>	<b>\$321,037</b>

**The School has met its savings!**

## 2 Introduction

This report details energy savings only; operations and maintenance savings have not been tabulated.

### 2.1 Energy Savings Summary

It was anticipated that the School Energy Performance Contracting Project would save the District \$236,438 in energy per year. In the second year of post-project energy data considered, it has been calculated that the district saved \$321,037 in energy.

**Reconciliation Report – Energy Savings Summary**

	<b>Guaranteed Savings</b>	<b>OFCC Approved</b>	<b>Actual Savings</b>	<b>Normalized Savings</b>
Electric	\$150,298	\$156,151	\$174,600	\$248,943
Natural Gas	\$77,380	\$71,487	\$160,484	\$72,094
Water	\$8,760	\$11,786	NA	
<b>Total Savings</b>	<b>\$236,438</b>	<b>\$239,424</b>	<b>\$335,084</b>	<b>\$321,037</b>

Note: The table above only includes Energy Savings; it does not include Operations and Maintenance Savings.

### **3 Post-Project Adjustments**

Water Savings was not taken into account as School has met its savings.

**The School has met its Savings!**

## 4 Savings Calculations

We at Energy Optimizers, USA find that the most accurate and reliable way of calculating the savings is Option C which is to compare energy usage data from after the project to data from before the project and Option A which is to stipulate the energy usage data. Energy data from the time period after the project has been completed, or the “post-project period” is measured against the energy data from before the project started, the baseline or benchmark time period. These two time periods are:

Benchmark Time Period:	September 2013 – August 2014
Post-Project Time Period:	January 2019 – December 2019

### 4.1 Normalized Savings

#### 4.1.1 Need for Normalization

Due to fluctuations in weather and prices in energy, the amount of money spent on energy can change drastically from year-to-year. In order to compare “apples to apples,” normalizing the data for the same weather and energy cost baseline is necessary. For example, if the price of electricity increases from \$0.10/unit to \$0.12/unit from one year to the next, and the owner uses 10% less energy, the overall cost will still increase because of the increased cost per unit.

Normalization is accomplished by adjusting the savings figures by a ratio of the benchmark heating or cooling demand and the post-project heating or cooling demand. Also, the benchmark energy cost rate is multiplied by the energy saved. These two steps remove the variables of weather and energy cost from the savings figures so that they are comparable to the anticipated savings. In turn, this allows us to determine the accurate amount of energy that was saved due to the School Energy Performance Contracting project.

#### 4.1.2 Usage Dependency

The first step is separating each respective energy usage by two or three categories, namely Weather-dependent, Occupancy-dependent, and/or Independent use. The percentages will allow the energy usage that is dependent on the weather to be normalized with respect to changes in weather from year to year. These percentages determined for the district are displayed in the table below.

**Pre-Project Energy Usage Dependence Percentages**

Pre - Project				
Springfield Local Schools	Electric		Natural Gas	
	Ind %	Wea %	Ind %	Wea %
Crissey Elementary	90.0%	10.0%	7.0%	93.0%
Dorr Elementary	90.0%	10.0%	20.5%	79.5%
Holloway Elementary	90.0%	10.0%	8.0%	92.0%
Middle School	90.0%	10.0%	8.0%	92.0%
High School	90.0%	10.0%	8.0%	92.0%
Holland Elementary	90.0%	10.0%	8.0%	92.0%
Adminstration Building	90.0%	10.0%	0.0%	0.0%

**Post Project Energy Usage Dependence Percentages**

Post - Project				
Springfield Local Schools	Electric		Natural Gas	
	Ind %	Wea %	Ind %	Wea %
Crissey Elementary	79.0%	21.0%	8.5%	91.5%
Dorr Elementary	79.0%	21.0%	15.2%	84.8%
Holloway Elementary	79.0%	21.0%	8.0%	92.0%
Middle School	79.0%	21.0%	10.8%	89.2%
High School	79.0%	21.0%	10.8%	89.2%
Holland Elementary	79.0%	21.0%	10.8%	89.2%
Adminstration Building	79.0%	21.0%		

The following was assumed if the R<sup>2</sup> value of the regression model was below 0.75.

Criteria	Electric			Natural Gas		
	Ind %	Wea %	Occ %	Ind %	Wea %	Occ %
Building with Cooling	79.0%	21.0%	0.0%	8.0%	92.0%	0.0%
Building without Cooling	98.0%	2.0%	0.0%	7.7%	92.3%	0.0%

**4.1.3 Weather Differences**

To adjust for differences in weather, it is necessary to determine the annual heating and cooling demand. Energy Optimizers, USA chooses to use heating degree days (HDD) and cooling degree days (CDD) for this measurement, as degree days are a great representation of the typical heating/cooling requirements for a building.

For example, the process of calculating the annual heating degree days is:

When the average outdoor air temperature (Toa) is less than the balance point temperature (Tbal - the outdoor air temperature at which heating/cooling is initiated), calculate the difference between the balance point temperature and average outdoor air temperature.

Sum that difference up for all days in the given year.

This equates to the heating degree days per year, and gives us an estimate of the annual heating energy use for a given location and balance temperature. The calculation for heating degree days is represented in the equation below; the process is nearly identical for cooling degree days.

$$Heating\ Degree\ Days = \sum_{i=1}^{365} (T_{bal} - T_{oa,i})$$

The heating and cooling degree days for the both time periods are displayed in the table below.

Heating and Cooling Degree Days			
Weather Data	Baseline	Post Project	Change to
Cooling Degree Days CDD	635	1,021	60.8%
Heating Degree Days HDD	7,126	5,536	-22.3%

Using the heating and cooling degree days for each time period, as well as the Baseline Energy Signature breakdown from the initial analysis of the District’s energy use, we were able to determine how much of

the total energy was used for heating or cooling the facility. The percentage breakdown allows us to adjust the weather dependent portion of the usage with the ratio of heating/cooling degree days of the two time periods, which enables us to calculate the normalized post-project savings. This, in turn, will allow us to see how well the project has performed in comparison to the anticipated savings.

#### 4.1.4 Electricity

Now that the heating and cooling degree days have been determined, it is possible to normalize the energy savings to determine just how much energy and money the project saved the district. To adjust for the electricity cost per unit change from the benchmark to the post-project time frame, we will multiple the weather normalized savings by the benchmark electricity cost per unit. The calculations and results are displayed below.

<b>Weather Normalized Electricity Usage Calculations</b>			
<b>Non-Weather Normalized Data</b>			
<b>Electricity Usage Data</b>	<b>Baseline</b>	<b>Post-Project</b>	<b>Change from Baseline</b>
<b>Annual kWh Usage</b>	5,676,376	3,176,489	-44.0%
<b>Annual kWh Cost</b>	\$515,857	\$341,257	(\$174,600)
<b>Average Cost per kWh</b>	\$0.0909	\$0.1074	18.2%
<b>Electrical kBtu/SqFt</b>	32.88	18.40	-44.0%

<b>Weather Normalized Data</b>			
<b>Electricity Usage Data</b>	<b>Baseline</b>	<b>Post-Project</b>	<b>Change from Baseline</b>
<b>Independent kWh Usage</b>	5,108,738	2,509,426	-50.9%
<b>Weather-Dependent kWh Usage - Cooling</b>	567,638	667,063	17.5%
<b>Electrical kWh/CDD</b>	893.92	653.34	-26.9%
<b>Weather Normalized kWh</b>	5,676,376	2,924,299	-48.5%

#### 4.1.5 Natural Gas Usage

The same process that was completed to ascertain the normalized electricity savings has been executed for the natural gas side of the savings venture. The calculations and savings associated are shown below. The savings is as shown below

<b>Non-Weather Normalized Data</b>			
<b>Heating Fuel Usage Data</b>	<b>Baseline</b>	<b>Post-Project</b>	<b>Change from Baseline</b>
<b>Annual MMBtu Usage</b>	33,705	19,316	-42.7%
<b>Annual MMBtu Cost</b>	\$259,661	\$99,178	(\$160,484)
<b>Average Cost per MMBtu</b>	\$7.70	\$5.13	-33.4%
<b>Heating Fuel kBtu/SqFt</b>	57.21	32.79	-42.7%

<b>Weather Normalized Data</b>			
<b>Heating Fuel Usage Data</b>	<b>Baseline</b>	<b>Post-Project</b>	<b>Change from Baseline</b>
<b>Independent MMBtu Usage</b>	3116	2033	-34.7%
<b>Weather-Dependent MMBtu Usage</b>	30,589	17,283	-43.5%
<b>Heating Fuel MMBtu/HDD</b>	4.29	3.12	-27.3%
<b>Weather Normalized MMBtu</b>	33,705	24,281	-28.0%
<b>Total Heating Fuel MMBtu/HDD</b>	4.73	4.39	-7.3%

#### 4.1.6 Savings Summary

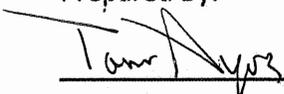
Total Summarized Savings

Guaranteed Savings	OFCC Approved	Actual Savings	Normalized Savings
Electric \$150,298	\$156,151	\$174,600	\$248,943
Natural Gas \$77,380	\$71,487	\$160,484	\$72,094
Water \$8,760	\$11,786	NA	
<b>Total Savings</b> \$236,438	\$239,424	\$335,084	\$321,037

**5 Operational and Maintenance Savings**

Springfield Local Schools approves that Energy Optimizers, USA has met the operations and maintenance savings of \$67,255.

Prepared By:



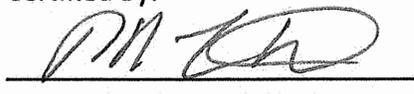
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Tanner Ayers, Energy Engineer  
Energy Optimizers, USA

7/15/2020

Date

Certified By:



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Ryan Lockwood, Treasurer  
Springfield Local School District

8/18/20

Date

## **6 Proposed Measures for Shortfall in Savings**

This project does not include any shortfalls in savings.

**The School has met its savings!**

# 7 Appendices

## 7.1 District Reconciliation Analysis

### Springfield Local Schools



#### District Summary

#### Reconciliation Report: HVAC, Weather and Price Normalized

Baseline Energy Use Time Period: September 2013 - August 2014

Post-Project Energy Use Time Period: February 2019 - January 2020

*Note: Energy savings figures only reflect (12) months of post-project data.*

Weather Data: Toledo	Cooling Degree Days (CDD)	Baseline: 635	Post Project: 1,021	Difference from Baseline: 60.8%
	Heating Degree Days (HDD)	Baseline: 7,126	Post Project: 5,536	Difference from Baseline: -22.3%

#### ENERGY USAGE COMPARISON

##### Electricity Usage Data

Non-Weather Normalized Data				Weather Normalized Data			
Electricity Usage Data	Baseline	Post-Project	Change from Baseline	Electricity Usage Data	Baseline	Post-Project	Change from Baseline
Annual kWh Usage	5,676,376	3,176,489	-44.0%	Independent kWh Usage	5,108,738	2,509,426	-50.9%
Annual kWh Cost	\$515,857	\$341,257	(\$174,600)	Weather-Dependent kWh Usage - Cooling	567,638	667,063	17.5%
Average Cost per kWh	\$0.0909	\$0.1074	18.2%				
Annual kW Usage (Demand)	17,138	11,595	-32.3%	Electrical kWh/CDD	893.92	653.34	-26.9%
Electrical kBtu/SqFt	32.88	18.40	-44.0%	Weather Normalized kWh	5,676,376	2,924,299	-48.5%

##### Heating Fuel Usage Data

Non-Weather Normalized Data				Weather Normalized Data			
Heating Fuel Usage Data	Baseline	Post-Project	Change from Baseline	Heating Fuel Usage Data	Baseline	Post-Project	Change from Baseline
Annual MMBtu Usage	33,705	19,316	-42.7%	Independent MMBtu Usage	3116	2033	-34.7%
Annual MMBtu Cost	\$259,661	\$99,178	(\$160,484)	Weather-Dependent MMBtu Usage	30,589	17,283	-43.5%
Average Cost per MMBtu	\$7.70	\$5.13	-33.4%	Heating Fuel MMBtu/HDD	4.29	3.12	-27.3%
Heating Fuel kBtu/SqFt	57.21	32.79	-42.7%	Weather Normalized MMBtu	33,705	24,281	-28.0%
				Total Heating Fuel MMBtu/HDD	4.73	4.39	-7.3%

#### Savings Summary

	Proposed Savings - Unit	Proposed Savings - \$	Proposed Savings 12	Bill to Bill Savings by Unit	Bill to Bill Savings - \$	Normalized Savings - Unit	Normalized Savings - \$
Electrical Savings - kWh	1,417,294	\$150,298	\$150,298.0	2,499,887	\$174,600	2,752,077	\$248,943
Heating Fuel Savings - MMBtu	10,002	\$77,380	\$77,380.0	14,388	\$160,484	9,424	\$72,094
Water Savings - gallons	1,536,999	\$8,760	\$8,760.0	NA	NA	NA	NA

#### TOTAL SAVINGS:

Anticipated Savings	\$236,438	Bill to Bill Comparison Savings	\$335,084	Total Normalized Savings	\$321,037
				Normalized Savings	\$321,037
				Water Savings	\$8,760

7.2 District Utility Analysis

# Springfield Local Schools



## District Summary

Post Project Period January 2020 - January 2020

FACILITY LOCATION NAME	FACILITY SIZE (S.F.)	ANNUAL ELECTRIC		ANNUAL KW	COST/ KWH	KBTU/ SF	ANNUAL FUEL (Total)		COST/ MMBTU	KBTU/ SF	TOTAL	TOTAL	TOTAL
		KWH	COST				MMBTU	COST (Total)			ANNUAL COST	KBTU/SF	\$/SF
1 Crissey Elementary	45,726	210,200	\$ 28,116	1037.9	\$ 0.134	15.69	3,764	\$ 22,262	\$ 5.91	82.32	\$ 50,378	98.00	\$ 1.10
2 Dorr Elementary	57,104	264,600	\$ 35,238	1292.9	\$ 0.133	15.81	1,877	\$ 9,992	\$ 5.32	32.88	\$ 45,230	48.69	\$ 0.79
3 Holloway Elementary	68,474	297,600	\$ 44,794	1822.5	\$ 0.151	14.83	1,567	\$ 8,298	\$ 5.29	22.89	\$ 53,092	37.72	\$ 0.78
4 Middle School	128,612	632,403	\$ 60,627	2158.1	\$ 0.096	16.78	3,437	\$ 16,768	\$ 4.88	26.73	\$ 77,395	43.51	\$ 0.60
5 High School	225,574	1,352,034	\$ 129,617	4613.9	\$ 0.096	20.46	7,618	\$ 37,161	\$ 4.88	33.77	\$ 166,778	54.23	\$ 0.74
6 Holland Elementary	48,316	196,263	\$ 18,815	669.8	\$ 0.096	13.86	1,053	\$ 4,697	\$ 4.46	21.79	\$ 23,512	35.66	\$ 0.49
7 Administration Building	15,368	223,389	\$ 24,050	0.0	\$ 0.108	49.61	-	\$ -	\$ -	-	\$ 24,050	49.61	\$ 1.56
<b>District Totals</b>	<b>589,174</b>	<b>3,176,489</b>	<b>\$ 341,257</b>	<b>11595.1</b>	<b>\$ 0.107</b>	<b>18.40</b>	<b>19,316</b>	<b>\$ 99,178</b>	<b>\$ 5.13</b>	<b>32.79</b>	<b>\$ 440,435</b>	<b>51.19</b>	<b>\$ 0.75</b>

Baseline Period August 2014 - August 2014

FACILITY LOCATION NAME	FACILITY SIZE (S.F.)	ANNUAL ELECTRIC		ANNUAL KW	COST/ KWH	KBTU/ SF	ANNUAL FUEL (Total)		COST/ MMBTU	KBTU/ SF	TOTAL	TOTAL	TOTAL
		KWH	COST				MMBTU	COST (Total)			ANNUAL COST	KBTU/SF	\$/SF
1 Crissey Elementary	45,726	327,200	\$ 36,249	1426.9	\$ 0.111	24.42	4,324	\$ 34,394	\$ 7.95	94.56	\$ 70,644	118.98	\$ 1.54
2 Dorr Elementary	57,104	499,700	\$ 55,219	741.3	\$ 0.111	29.87	3,700	\$ 27,497	\$ 7.43	64.79	\$ 82,717	94.66	\$ 1.45
3 Holloway Elementary	68,474	516,300	\$ 66,153	2238.3	\$ 0.128	25.73	3,039	\$ 23,154	\$ 7.62	44.38	\$ 89,307	70.11	\$ 1.30
4 Middle School	128,612	1,168,584	\$ 95,832	3702.8	\$ 0.082	31.01	6,428	\$ 49,571	\$ 7.71	49.98	\$ 145,403	80.99	\$ 1.13
5 High School	225,574	2,498,352	\$ 204,883	7879.1	\$ 0.082	37.80	14,246	\$ 109,860	\$ 7.71	63.15	\$ 314,743	100.95	\$ 1.40
6 Holland Elementary	48,316	362,664	\$ 29,741	1149.1	\$ 0.082	25.62	1,969	\$ 15,184	\$ 7.71	40.75	\$ 44,925	66.37	\$ 0.93
7 Administration Building	15,368	303,576	\$ 27,779	0.0	\$ 0.092	67.42	-	\$ -	\$ -	-	\$ 27,779	67.42	\$ 1.81
<b>District Totals</b>	<b>589,174</b>	<b>5,676,376</b>	<b>\$ 515,857</b>	<b>17137.5</b>	<b>\$ 0.091</b>	<b>32.88</b>	<b>33,705</b>	<b>\$ 259,661</b>	<b>\$ 7.70</b>	<b>57.21</b>	<b>\$ 775,518</b>	<b>90.09</b>	<b>\$ 1.32</b>

Weather Normalized Utility Summary

Weather Normalized Totals Post Project	589,174	3,115,075	\$ 334,659	\$ 0.107	5.29	18.05	19,721	\$ 101,253	\$ 5.13	33.47	\$ 435,912	51.52	\$ 0.74
Weather Normalized Totals Baseline	589,174	6,224,526	\$ 565,672	\$ 0.091	10.56	36.06	27,334	\$ 210,578	\$ 7.70	46.39	\$ 776,249	82.45	\$ 1.32

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
2019 - 2020 - Heating Degree Days	10	320	815	893	961	996	925	433	166	17	0	0	5,536
2013 - 2014 - Heating Degree Days	132	410	805	1,146	1,489	1,308	1,137	490	185	10	9	5	7,126
2019 - 2020 - Cooling Degree Days	160	23	0	0	0	0	0	0	40	159	391	248	1,021
2013 - 2014 - Cooling Degree Days	75	14	0	0	0	0	0	3	63	165	145	170	635
5 Year Average - Heating Degree Days	53	332	708	981	1,140	924	822	505	179	13	0	5	5,662
5 Year Average - Cooling Degree Days	128	24	1	0	0	0	0	2	52	179	306	235	927

7.3 Crissey Elementary Utility Analysis

Crissey Elementary

9250 Geiser Road, Holland, OH 43528										Facility Size	45,726
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Post Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	10/10/19	22,100	\$3,082	\$ 0.139	128.0	09/27/19	5.1	\$40	\$ 7.75	\$3,122	\$ 0.07
	11/08/19	16,600	\$1,888	\$ 0.114	68.7	10/29/19	147.9	\$882	\$ 5.96	\$2,770	\$ 0.06
	12/10/19	17,400	\$2,165	\$ 0.124	77.7	11/26/19	482.7	\$2,857	\$ 5.92	\$5,022	\$ 0.11
	01/10/20	16,400	\$2,198	\$ 0.134	82.2	12/30/19	624.4	\$3,693	\$ 5.91	\$5,891	\$ 0.13
	02/11/19	18,300	\$2,141	\$ 0.117	67.1	01/27/19	651.1	\$3,836	\$ 5.89	\$5,977	\$ 0.13
	03/11/19	16,000	\$2,017	\$ 0.126	67.1	02/27/19	719.9	\$4,240	\$ 5.89	\$6,258	\$ 0.14
	04/08/19	16,000	\$2,123	\$ 0.133	74.1	03/28/19	592.6	\$3,492	\$ 5.89	\$5,614	\$ 0.12
	05/09/19	15,300	\$2,180	\$ 0.142	81.2	04/29/19	371.8	\$2,194	\$ 5.90	\$4,374	\$ 0.10
06/11/19	14,900	\$2,174	\$ 0.146	82.2	05/28/19	148.9	\$885	\$ 5.94	\$3,058	\$ 0.07	
07/11/19	14,000	\$2,171	\$ 0.155	86.6	06/27/19	10.3	\$70	\$ 6.80	\$2,241	\$ 0.05	
08/09/19	18,600	\$2,607	\$ 0.140	97.7	07/30/19	4.1	\$34	\$ 8.20	\$2,640	\$ 0.06	
09/11/19	24,600	\$3,370	\$ 0.137	125.3	08/28/19	5.1	\$40	\$ 7.75	\$3,410	\$ 0.07	
Totals	210,200	\$ 28,116	\$ 0.134	1,037.9		3,764.0	\$ 22,262	\$ 5.91	\$50,378	\$ 1.10	

Baseline Pre-Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/01/13	18,200	\$2,706	\$ 0.149	149.3	09/04/13	5.1	\$46	\$ 8.99	\$2,752	\$ 0.06
	10/01/13	33,300	\$3,885	\$ 0.117	170.7	10/03/13	6.2	\$53	\$ 8.64	\$3,939	\$ 0.09
	11/01/13	27,200	\$2,910	\$ 0.107	115.3	11/05/13	192.7	\$1,485	\$ 7.71	\$4,395	\$ 0.10
	12/01/13	27,000	\$2,704	\$ 0.100	97.6	12/04/13	417.4	\$3,211	\$ 7.69	\$5,914	\$ 0.13
	01/01/14	24,400	\$2,497	\$ 0.102	93.4	01/08/14	736.9	\$5,664	\$ 7.69	\$8,162	\$ 0.18
	02/01/14	24,800	\$2,504	\$ 0.101	91.2	02/04/14	903.0	\$6,940	\$ 7.69	\$9,444	\$ 0.21
	03/01/14	30,300	\$3,076	\$ 0.102	113.0	03/05/14	851.5	\$6,639	\$ 7.80	\$9,715	\$ 0.21
	04/01/14	19,200	\$2,298	\$ 0.120	106.5	04/03/14	655.6	\$5,422	\$ 8.27	\$7,720	\$ 0.17
05/01/14	26,600	\$3,087	\$ 0.116	138.1	05/05/14	452.4	\$4,006	\$ 8.85	\$7,093	\$ 0.16	
06/01/14	31,100	\$3,785	\$ 0.122	155.0	06/04/14	88.6	\$789	\$ 8.90	\$4,574	\$ 0.10	
07/01/14	25,500	\$2,802	\$ 0.110	98.4	07/03/14	7.2	\$69	\$ 9.60	\$2,871	\$ 0.06	
08/01/14	39,600	\$3,995	\$ 0.101	98.4	08/05/14	7.2	\$69	\$ 9.60	\$4,064	\$ 0.09	
Totals	327,200	\$36,249	\$ 0.111	1,426.9		4,323.8	\$ 34,394	\$ 7.95	\$70,644	\$ 1.54	

7.4 Dorr Elementary Utility Analysis

### Dorr Elementary

1205 N King Rd, Toledo OH, 43617	Facility Size	57,104
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Post Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/19/19	26,700	\$3,741	\$ 0.140	145.3	09/04/19	19.5	\$210	\$ 10.75	\$3,950	\$0.07
	10/21/19	22,500	\$3,029	\$ 0.135	126.5	10/04/19	18.5	\$348	\$ 18.85	\$3,377	\$0.06
	11/18/19	20,000	\$2,585	\$ 0.129	100.3	11/04/19	102.7	\$833	\$ 8.11	\$3,418	\$0.06
	12/19/19	25,100	\$2,953	\$ 0.118	100.0	12/04/19	293.7	\$1,352	\$ 4.60	\$4,305	\$0.08
	01/22/19	25,100	\$2,991	\$ 0.119	97.3	01/04/19	298.9	\$1,700	\$ 5.69	\$4,692	\$0.08
	02/21/19	24,900	\$3,076	\$ 0.124	102.5	02/04/19	397.4	\$1,929	\$ 4.85	\$5,005	\$0.09
	03/20/19	22,000	\$2,877	\$ 0.131	98.9	03/04/19	377.9	\$1,603	\$ 4.24	\$4,480	\$0.08
	04/19/19	24,900	\$3,098	\$ 0.124	100.9	04/04/19	197.2	\$873	\$ 4.43	\$3,971	\$0.07
05/20/19	18,300	\$2,613	\$ 0.143	97.4	05/04/19	106.8	\$495	\$ 4.64	\$3,108	\$0.05	
06/20/19	15,500	\$2,201	\$ 0.142	81.1	06/04/19	35.9	\$259	\$ 7.21	\$2,461	\$0.04	
07/23/19	18,600	\$2,701	\$ 0.145	103.0	07/04/19	14.4	\$190	\$ 13.20	\$2,891	\$0.05	
08/20/19	21,000	\$3,374	\$ 0.161	139.7	08/04/19	14.4	\$198	\$ 13.78	\$3,572	\$0.06	
Totals	264,600	\$35,238	\$ 0.133	1,292.9		1,877.4	\$9,992	\$ 5.32	\$45,230	0.792066405	

Baseline Pre-Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/01/13	55,000	\$5,626	\$ 0.102	78.4	09/01/13	17.5	\$180	\$ 10.26	\$5,806	\$0.10
	10/01/13	49,600	\$5,274	\$ 0.106	78.4	10/01/13	22.5	\$210	\$ 9.33	\$5,484	\$0.10
	11/01/13	45,800	\$4,504	\$ 0.098	56.7	11/01/13	65.6	\$486	\$ 7.40	\$4,989	\$0.09
	12/01/13	42,400	\$4,813	\$ 0.114	78.4	12/01/13	233.4	\$1,565	\$ 6.70	\$6,378	\$0.11
	01/01/14	39,500	\$4,060	\$ 0.103	30.4	01/01/14	431.4	\$2,943	\$ 6.82	\$7,003	\$0.12
	02/01/14	41,500	\$4,317	\$ 0.104	55.6	02/01/14	753.1	\$5,429	\$ 7.21	\$9,746	\$0.17
	03/01/14	44,400	\$4,291	\$ 0.097	33.2	03/01/14	717.8	\$5,550	\$ 7.73	\$9,841	\$0.17
	04/01/14	35,900	\$3,984	\$ 0.111	56.4	04/01/14	716.0	\$5,364	\$ 7.49	\$9,348	\$0.16
05/01/14	45,100	\$5,140	\$ 0.114	69.9	05/01/14	463.4	\$3,480	\$ 7.51	\$8,619	\$0.15	
06/01/14	35,200	\$4,722	\$ 0.134	69.9	06/01/14	194.3	\$1,538	\$ 7.91	\$6,260	\$0.11	
07/01/14	30,600	\$3,978	\$ 0.130	67.0	07/01/14	64.5	\$541	\$ 8.39	\$4,519	\$0.08	
08/01/14	34,700	\$4,511	\$ 0.130	67.0	08/01/14	20.5	\$213	\$ 10.37	\$4,724	\$0.08	
Totals	499,700	\$5,219	\$ 0.111	741.3		3,700.0	\$ 27,497	\$ 7.43	\$82,717	1.44853005	

7.5 Holloway Elementary Utility Analysis

## Holloway Elementary

<b>6611 Pillod Rd, Holland OH, 43528</b>	<b>Facility Size</b> 68,474
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Post Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/25/19	31,500	\$5,395	\$ 0.171	243.0	09/01/19	7.2	\$165	\$ 22.95	\$5,560	\$0.08
	10/25/19	25,800	\$4,431	\$ 0.172	219.3	10/01/19	9.2	\$311	\$ 33.63	\$4,742	\$0.07
	11/22/19	21,900	\$2,806	\$ 0.128	106.5	11/01/19	61.6	\$812	\$ 13.17	\$3,618	\$0.05
	12/26/19	26,700	\$2,930	\$ 0.110	92.4	12/01/19	216.7	\$1,095	\$ 5.05	\$4,025	\$0.06
	01/28/19	23,100	\$2,633	\$ 0.114	80.4	01/01/19	262.9	\$1,652	\$ 6.28	\$4,285	\$0.06
	02/26/19	23,100	\$2,706	\$ 0.117	85.2	02/01/19	371.8	\$1,649	\$ 4.44	\$4,356	\$0.06
	03/26/19	23,100	\$2,852	\$ 0.123	92.7	03/01/19	325.6	\$1,134	\$ <b>3.48</b>	\$3,986	\$0.06
	04/25/19	21,600	\$3,349	\$ 0.155	133.8	04/01/19	193.1	\$643	\$ <b>3.33</b>	\$3,992	\$0.06
	05/24/19	23,400	\$3,698	\$ 0.158	149.7	05/01/19	81.1	\$348	\$ 4.29	\$4,046	\$0.06
	06/25/19	21,600	\$3,583	\$ 0.166	149.4	06/01/19	29.8	\$197	\$ 6.60	\$3,780	\$0.06
07/26/19	25,800	\$4,935	\$ 0.191	225.3	07/01/19	5.1	\$144	\$ 28.06	\$5,079	\$0.07	
08/26/19	30,000	\$5,474	\$ 0.182	244.8	08/01/19	3.1	\$150	\$ 48.69	\$5,624	\$0.08	
Totals	297,600	\$44,794	\$ 0.151	1,822.5		1,567.2	\$8,298	\$ 5.29	\$53,092	\$0.78	

Baseline Pre-Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/01/13	52,200	\$6,160	\$ 0.118	78.4	09/23/13	4.1	\$91	\$ 22.25	\$6,251	\$0.09
	10/01/13	45,900	\$6,170	\$ 0.134	78.4	10/18/13	8.2	\$118	\$ 14.38	\$6,288	\$0.09
	11/01/13	42,900	\$5,916	\$ 0.138	56.7	10/20/13	13.4	\$151	\$ 11.30	\$6,067	\$0.09
	12/01/13	40,500	\$5,034	\$ 0.124	78.4	12/17/13	186.3	\$1,285	\$ 6.90	\$6,319	\$0.09
	01/01/14	42,000	\$4,391	\$ 0.105	141.3	01/22/14	384.5	\$2,677	\$ 6.96	\$7,068	\$0.10
	02/01/14	34,800	\$3,739	\$ 0.107	149.7	02/27/14	543.3	\$4,001	\$ 7.36	\$7,740	\$0.11
	03/01/14	41,100	\$5,415	\$ 0.132	268.8	03/28/14	482.3	\$3,809	\$ 7.90	\$9,224	\$0.13
	04/01/14	41,700	\$5,642	\$ 0.135	293.4	04/18/14	532.6	\$4,072	\$ 7.65	\$9,714	\$0.14
	05/01/14	58,800	\$7,315	\$ 0.124	312.0	05/28/14	450.2	\$3,438	\$ 7.64	\$10,753	\$0.16
	06/01/14	40,800	\$5,924	\$ 0.145	294.3	06/28/14	307.8	\$2,437	\$ 7.92	\$8,361	\$0.12
07/01/14	37,500	\$5,113	\$ 0.136	240.9	07/24/14	117.8	\$951	\$ 8.07	\$6,064	\$0.09	
08/01/14	38,100	\$5,334	\$ 0.140	246.0	08/29/14	8.2	\$124	\$ 15.15	\$5,458	\$0.08	
Totals	516,300	66,153	\$ 0.128	2,238.3		3,038.7	\$ 23,154	\$ 7.62	\$89,307	\$1.30	

7.6 Middle School Utility Analysis

Middle School

7001 Madison St, Holland, OH 43528	Facility Size	128,612
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Post Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/25/19	69,600	\$6,584	\$ 0.095	249.3	09/01/19	16.0	\$101	\$ 6.34	\$6,685	\$0.05
	10/24/19	54,201	\$5,048	\$ 0.093	234.1	10/01/19	19.9	\$121	\$ 6.05	\$5,169	\$0.04
	11/22/19	49,329	\$4,365	\$ 0.088	146.1	11/01/19	158.2	\$677	\$ 4.28	\$5,042	\$0.04
	12/26/19	57,855	\$4,997	\$ 0.086	146.1	12/01/19	516.7	\$2,096	\$ 4.06	\$7,093	\$0.06
	01/25/19	50,112	\$4,668	\$ 0.093	153.1	01/01/19	576.8	\$4,187	\$ 7.26	\$8,854	\$0.07
	02/26/19	55,854	\$5,079	\$ 0.091	154.9	02/01/19	764.6	\$3,457	\$ 4.52	\$8,536	\$0.07
	03/26/19	49,329	\$4,670	\$ 0.095	142.2	03/01/19	711.9	\$3,146	\$ 4.42	\$7,817	\$0.06
	04/24/19	46,023	\$4,504	\$ 0.098	147.0	04/01/19	399.8	\$1,701	\$ 4.25	\$6,205	\$0.05
	05/24/19	45,849	\$4,699	\$ 0.102	167.4	05/01/19	186.4	\$802	\$ 4.30	\$5,501	\$0.04
	06/25/19	38,193	\$3,980	\$ 0.104	145.3	06/01/19	64.7	\$316	\$ 4.88	\$4,296	\$0.03
	07/26/19	51,243	\$5,156	\$ 0.101	189.9	07/01/19	12.8	\$89	\$ 6.95	\$5,245	\$0.04
08/26/19	64,815	\$6,877	\$ 0.106	282.6	08/01/19	9.4	\$74	\$ 7.88	\$6,951	\$0.05	
Totals	632,403	\$60,627	\$ 0.096	2,158.1		3,437.3	\$16,768	\$ 4.88	\$77,395	\$0.60	

Baseline Pre-Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/01/13	125,019	\$10,830	\$ 0.087	402.0	09/23/13	21.7	\$154	\$ 7.10	\$10,984	\$0.09
	10/01/13	109,533	\$9,089	\$ 0.083	307.6	10/18/13	23.9	\$167	\$ 6.97	\$9,256	\$0.07
	11/01/13	91,002	\$7,705	\$ 0.085	304.2	10/20/13	34.7	\$240	\$ 6.90	\$7,945	\$0.06
	12/01/13	101,007	\$8,328	\$ 0.082	284.6	12/17/13	340.9	\$2,352	\$ 6.90	\$10,680	\$0.08
	01/01/14	87,348	\$6,745	\$ 0.077	243.5	01/22/14	790.7	\$5,649	\$ 7.14	\$12,394	\$0.10
	02/01/14	92,133	\$7,001	\$ 0.076	246.6	02/27/14	1,358.0	\$10,313	\$ 7.59	\$17,314	\$0.13
	03/01/14	90,828	\$6,925	\$ 0.076	248.5	03/28/14	1,181.6	\$9,585	\$ 8.11	\$16,510	\$0.13
	04/01/14	86,826	\$6,713	\$ 0.077	302.0	04/18/14	1,284.6	\$10,112	\$ 7.87	\$16,825	\$0.13
	05/01/14	107,358	\$8,902	\$ 0.083	336.3	05/28/14	885.6	\$6,944	\$ 7.84	\$15,845	\$0.12
	06/01/14	96,831	\$8,235	\$ 0.085	347.1	06/28/14	397.3	\$3,200	\$ 8.06	\$11,435	\$0.09
	07/01/14	93,612	\$7,957	\$ 0.085	340.2	07/24/14	89.0	\$701	\$ 7.88	\$8,658	\$0.07
08/01/14	87,087	\$7,402	\$ 0.085	340.2	08/29/14	20.0	\$154	\$ 7.74	\$7,557	\$0.06	
Totals	1,168,584	\$95,832	\$ 0.082	3,702.8		6,427.9	\$ 49,571	\$ 7.71	\$145,403	\$1.13	

7.7 High School Utility Analysis

High School

1470 S. McCord Rd, Holland OH, 43528	Facility Size	225,574
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Post Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/25/19	148,800	\$14,076	\$ 0.095	533.1	09/01/19	35.4	\$224	\$ 6.34	\$14,300	\$ 0.06
	10/24/19	115,878	\$10,793	\$ 0.093	500.5	10/01/19	44.2	\$267	\$ 6.05	\$11,060	\$ 0.05
	11/22/19	105,462	\$9,332	\$ 0.088	312.3	11/01/19	350.5	\$1,501	\$ 4.28	\$10,833	\$ 0.05
	12/26/19	123,690	\$10,683	\$ 0.086	312.3	12/01/19	1,145.1	\$4,646	\$ 4.06	\$15,328	\$ 0.07
	01/25/19	107,136	\$9,979	\$ 0.093	327.4	01/01/19	1,278.4	\$9,279	\$ 7.26	\$19,258	\$ 0.09
	02/26/19	119,412	\$10,858	\$ 0.091	331.3	02/01/19	1,694.6	\$7,661	\$ 4.52	\$18,519	\$ 0.08
	03/26/19	105,462	\$9,985	\$ 0.095	304.1	03/01/19	1,577.7	\$6,973	\$ 4.42	\$16,958	\$ 0.08
	04/24/19	98,394	\$9,629	\$ 0.098	314.3	04/01/19	886.1	\$3,770	\$ 4.25	\$13,399	\$ 0.06
05/24/19	98,022	\$10,046	\$ 0.102	357.9	05/01/19	413.1	\$1,778	\$ 4.30	\$11,824	\$ 0.05	
06/25/19	81,654	\$8,509	\$ 0.104	310.6	06/01/19	143.4	\$700	\$ 4.88	\$9,209	\$ 0.04	
07/26/19	109,554	\$11,024	\$ 0.101	406.0	07/01/19	28.4	\$197	\$ 6.95	\$11,221	\$ 0.05	
08/26/19	138,570	\$14,702	\$ 0.106	604.1	08/01/19	20.8	\$164	\$ 7.88	\$14,867	\$ 0.07	
Totals	1,352,034	\$129,617	\$ 0.096	4,613.9		7,617.8	\$37,161	\$ 4.88	\$166,778	\$ 0.74	

Baseline Pre-Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/MMBtu	Total (\$)	\$/SF
	09/01/13	267,282	\$23,155	\$ 0.087	859.5	09/23/13	48.0	\$341	\$ 7.10	\$23,496	\$ 0.10
	10/01/13	234,174	\$19,433	\$ 0.083	657.7	10/18/13	53.0	\$370	\$ 6.97	\$19,802	\$ 0.09
	11/01/13	194,556	\$16,473	\$ 0.085	650.3	11/20/13	76.9	\$531	\$ 6.90	\$17,004	\$ 0.08
	12/01/13	215,946	\$17,804	\$ 0.082	608.4	12/17/13	755.4	\$5,213	\$ 6.90	\$23,017	\$ 0.10
	01/01/14	186,744	\$14,421	\$ 0.077	520.6	01/22/14	1,752.4	\$12,519	\$ 7.14	\$26,940	\$ 0.12
	02/01/14	196,974	\$14,968	\$ 0.076	523.1	02/27/14	3,009.7	\$22,856	\$ 7.59	\$37,823	\$ 0.17
	03/01/14	194,184	\$14,804	\$ 0.076	526.9	03/28/14	2,618.6	\$21,242	\$ 8.11	\$36,047	\$ 0.16
	04/01/14	185,628	\$14,352	\$ 0.077	640.4	04/18/14	2,847.0	\$22,411	\$ 7.87	\$36,763	\$ 0.16
05/01/14	229,524	\$19,031	\$ 0.083	713.3	05/28/14	1,962.7	\$15,389	\$ 7.84	\$34,420	\$ 0.15	
06/01/14	207,018	\$17,605	\$ 0.085	736.2	06/28/14	880.4	\$7,093	\$ 8.06	\$24,698	\$ 0.11	
07/01/14	200,136	\$17,012	\$ 0.085	721.4	07/24/14	197.2	\$1,554	\$ 7.88	\$18,565	\$ 0.08	
08/01/14	186,186	\$15,826	\$ 0.085	721.4	08/29/14	44.2	\$342	\$ 7.74	\$16,168	\$ 0.07	
Totals	2,498,352	\$204,883	\$ 0.082	7,879.1		14,245.6	\$ 109,860	\$ 7.71	\$314,743	\$ 1.40	

7.8 Holland Elementary Utility Analysis

Holland Elementary

7001 Madison St, Holland OH, 43528										Facility Size	48,316
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Post Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/ kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/ MMBtu	Total (\$)	\$/SF
	09/25/19	21,600	\$2,043	\$ 0.095	77.4	09/01/19	4.9	\$31	\$ 6.34	\$2,074	\$0.04
	10/24/19	16,821	\$1,567	\$ 0.093	72.7	10/01/19	6.1	\$37	\$ 6.05	\$1,604	\$0.03
	11/22/19	15,309	\$1,355	\$ 0.088	45.3	11/01/19	48.4	\$207	\$ 4.28	\$1,562	\$0.03
	12/26/19	17,955	\$1,551	\$ 0.086	45.3	12/01/19	158.3	\$642	\$ 4.06	\$2,193	\$0.05
	01/25/19	15,552	\$1,449	\$ 0.093	47.5	01/01/19	176.7	\$843	\$ 4.77	\$2,292	\$0.05
	02/26/19	17,334	\$1,576	\$ 0.091	48.1	02/01/19	234.2	\$1,059	\$ 4.52	\$2,635	\$0.05
	03/26/19	15,309	\$1,449	\$ 0.095	44.1	03/01/19	218.1	\$964	\$ 4.42	\$2,413	\$0.05
	04/24/19	14,283	\$1,398	\$ 0.098	45.6	04/01/19	122.5	\$521	\$ 4.25	\$1,919	\$0.04
	05/24/19	14,229	\$1,458	\$ 0.102	51.9	05/01/19	57.1	\$246	\$ 4.30	\$1,704	\$0.04
	06/25/19	11,853	\$1,235	\$ 0.104	45.1	06/01/19	19.8	\$97	\$ 4.88	\$1,332	\$0.03
07/26/19	15,903	\$1,600	\$ 0.101	58.9	07/01/19	3.9	\$27	\$ 6.95	\$1,628	\$0.03	
08/26/19	20,115	\$2,134	\$ 0.106	87.7	08/01/19	2.9	\$23	\$ 7.88	\$2,157	\$0.04	
Totals	196,263	\$18,815	\$ 0.096	669.8		1,052.9	\$4,697	\$ 4.46	\$23,512	\$0.49	

Baseline Pre-Project Data	Electricity					Fuel				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/ kWh	Demand (kW billed)	Meter Read Date	Fuel (MMBtu)	Cost (\$)	Cost/ MMBtu	Total (\$)	\$/SF
	09/01/13	38,799	\$3,361	\$ 0.087	124.8	09/23/13	6.6	\$47	\$7.14	\$3,408	\$0.07
	10/01/13	33,993	\$2,821	\$ 0.083	95.5	10/18/13	7.3	\$51	\$7.00	\$2,872	\$0.06
	11/01/13	28,242	\$2,391	\$ 0.085	94.4	11/20/13	10.6	\$73	\$6.92	\$2,465	\$0.05
	12/01/13	31,347	\$2,584	\$ 0.082	88.3	12/17/13	104.4	\$721	\$6.90	\$3,305	\$0.07
	01/01/14	27,108	\$2,093	\$ 0.077	75.6	01/22/14	242.2	\$1,730	\$7.14	\$3,824	\$0.08
	02/01/14	28,593	\$2,173	\$ 0.076	76.5	02/27/14	416.0	\$3,159	\$7.59	\$5,332	\$0.11
	03/01/14	28,188	\$2,149	\$ 0.076	77.1	03/28/14	361.9	\$2,936	\$8.11	\$5,085	\$0.11
	04/01/14	26,946	\$2,083	\$ 0.077	93.7	04/18/14	393.5	\$3,097	\$7.87	\$5,181	\$0.11
	05/01/14	33,318	\$2,763	\$ 0.083	104.4	05/28/14	271.3	\$2,127	\$7.84	\$4,890	\$0.10
	06/01/14	30,051	\$2,556	\$ 0.085	107.7	06/28/14	121.7	\$980	\$8.06	\$3,536	\$0.07
07/01/14	29,052	\$2,469	\$ 0.085	105.6	07/24/14	27.3	\$215	\$7.88	\$2,684	\$0.06	
08/01/14	27,027	\$2,297	\$ 0.085	105.6	08/29/14	6.1	\$47	\$7.74	\$2,345	\$0.05	
Totals	362,664	\$29,741	\$ 0.082	1,149.1		1,968.9	\$ 15,184	\$ 7.71	\$44,925	\$0.93	

7.9 Administration Building Utility Analysis

### Adminstration Building

<b>6900 Hall St, Holland OH, 43528</b>	<b>Facility Size</b>	15,368
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Post Project Data	Electricity				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Total (\$)	\$/SF
	09/25/2019	16,201	\$1,750	\$ 0.108	\$1,750	\$0.11
	10/24/2019	13,947	\$1,506	\$ 0.108	\$1,506	\$0.10
	11/22/2019	17,341	\$1,873	\$ 0.108	\$1,873	\$0.12
	12/26/2019	27,291	\$2,947	\$ 0.108	\$2,947	\$0.19
	01/01/19	21,810	\$2,360	\$ 0.108	\$2,360	\$0.15
	02/01/19	26,307	\$2,658	\$ 0.101	\$2,658	\$0.17
	03/01/19	21,288	\$2,274	\$ 0.107	\$2,274	\$0.15
	04/01/19	16,165	\$1,873	\$ 0.116	\$1,873	\$0.12
05/24/2019	13,507	\$1,459	\$ 0.108	\$1,459	\$0.09	
06/25/2019	13,882	\$1,499	\$ 0.108	\$1,499	\$0.10	
07/26/2019	17,999	\$1,944	\$ 0.108	\$1,944	\$0.13	
08/26/2019	17,651	\$1,906	\$ 0.108	\$1,906	\$0.12	
Totals	223,389	\$24,050	\$ 0.108	\$24,050	\$1.56	

Baseline Pre-Project Data	Electricity				Summary	
	Meter Read Date	Energy (kWh)	Cost (\$)	Cost/kWh	Total (\$)	\$/SF
	09/01/13	23,009	\$2,120	\$ 0.092	\$2,120	\$0.14
	10/01/13	19,729	\$1,798	\$ 0.091	\$1,798	\$0.12
	11/01/13	21,488	\$1,936	\$ 0.090	\$1,936	\$0.13
	12/01/13	27,495	\$2,455	\$ 0.089	\$2,455	\$0.16
	01/01/14	36,039	\$3,047	\$ 0.085	\$3,047	\$0.20
	02/01/14	30,691	\$2,733	\$ 0.089	\$2,733	\$0.18
	03/01/14	30,634	\$2,736	\$ 0.089	\$2,736	\$0.18
	04/01/14	27,113	\$2,371	\$ 0.087	\$2,371	\$0.15
05/01/14	20,693	\$1,997	\$ 0.097	\$1,997	\$0.13	
06/01/14	21,886	\$2,074	\$ 0.095	\$2,074	\$0.13	
07/01/14	21,296	\$2,130	\$ 0.100	\$2,130	\$0.14	
08/01/14	23,503	\$2,381	\$ 0.101	\$2,381	\$0.15	
Totals	303,576	\$27,779	\$ 0.092	\$27,779	\$1.81	