

2017
STRATEGIC ENERGY PLAN
FOR
GREENVILLE COUNTY SCHOOLS

Rev. December 2017



GREENVILLE COUNTY
SCHOOLS

Where enlightening strikes

DEVELOPED BY
THE ENERGY MANAGEMENT DEPARTMENT
GREENVILLE COUNTY SCHOOLS



STRATEGIC ENERGY PLAN

Contents

Executive Summary

Current Conditions
Baseline Energy Use
Key Actions

- 1. Baseline Energy Use & Costs**
- 2. Planned Actions & Projects**
- 3. Savings Opportunity Assessment**
- 4. Goals and Measures**

APPENDICES

Baseline Energy Use Map
Facilities Ranking: Utility Cost per SF
Facilities Ranking: Energy Use per SF

Executive Summary

Current Conditions

The Energy Management Department has been assigned the responsibility of supervising the design and monitoring the installation of energy-related systems in all new and renovated District locations. In addition, the Energy Management Department is responsible for entering utility cost and consumption information for each District location in the web-based utility bill management system, Utility Manager.

The District’s energy expenditures peaked at over \$16,000,000 annually in FY 2007-08. Through implementation of the 2009 Strategic Energy Plan energy expenditures have decreased to \$13,500,000 for FY 2014-15. The levels of savings are now plateauing and warrant an update to this plan.

Figure 1 shows the impact the previous strategic energy plan had on the District energy expenditures over the past 7 years. The blue line shows what our energy cost would be if consumption was at FY-08 levels (i.e. updated rates & square footage, but no weather adjustments), while the red line shows our actual energy cost since FY-08 – please note both of these use the left/primary vertical axis (energy cost in millions). The green bars show our cost avoidance through the years and uses the right/secondary axis (avoided cost in millions). This avoided cost is around \$5.75 million annually for FY 2014-15.

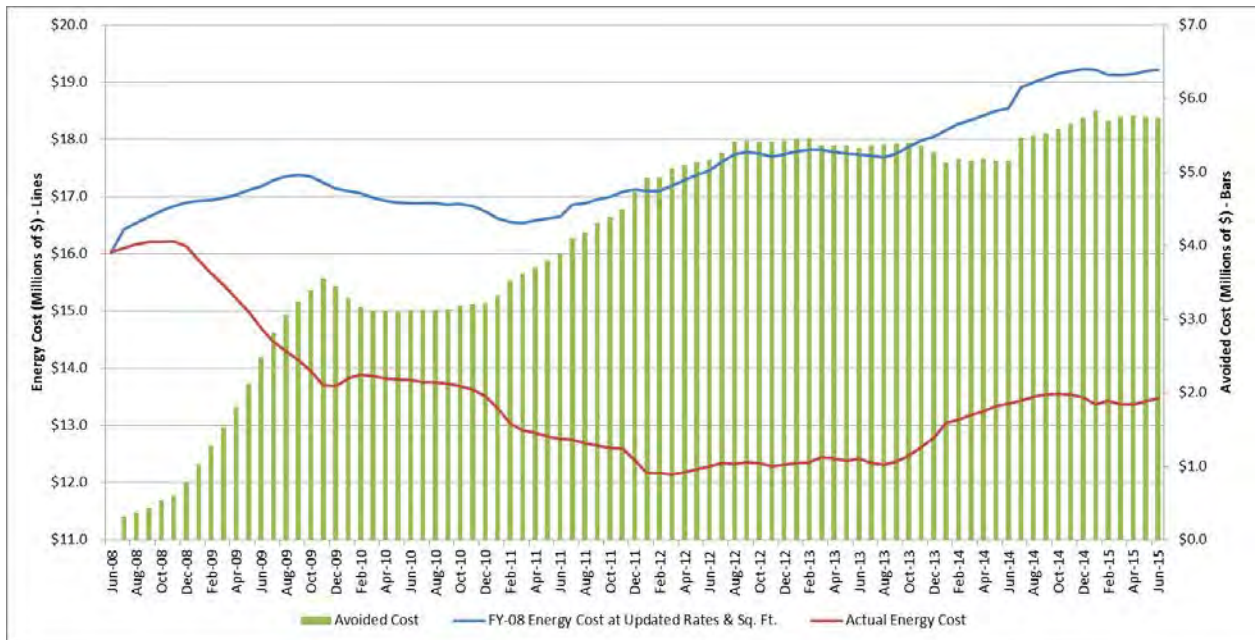


Figure 1: Energy Management Historical Avoided Cost



The SEP will initiate action in five key strategic focus areas. These areas and current conditions are outlined as follows:

Energy Management Data – The District currently has a web-based utility cost management system, Utility Manager. This program collects and analyzes monthly billing information. This database includes all building and meter information, use and cost for each meter. This can be used to monitor excessive variations in consumption, identify billing errors and target specific facilities for detailed evaluation. Portfolio Manager is also utilized to assess facility performance versus other like buildings around the country.

Energy Supply Management – All facilities have been audited for proper rate schedules. South Carolina does not offer a competitive, deregulated utility market. Current sources of energy have been reliable.

Energy Use in Facilities – Almost all buildings have a web-based energy management system (EMS). Recommended temperature ranges have been programmed and typical schedules have been input. Individual locations currently have overcall panels to extend operating hours as needed. The usage and cost for each building is currently known. Some energy reduction opportunities have been identified.

Equipment Efficiency – Procedures have been developed to require equipment be placed into an appropriate condition when facilities are closed. A preventative maintenance program is in place to ensure that equipment is operating efficiently and reliably. HVAC systems and equipment are monitored and equipment replacement programmed as required to improve energy costs where such action has been deemed cost effective.

Organization Integration – The daily responsibility for energy management has been assigned to the Energy Management Department. Elements of a District-wide Energy Awareness Program have been developed and implemented. All operating units whose activities affect energy use and cost have been identified. Funding for energy saving projects is available within the District.



Baseline Energy Use

Greenville County Schools' utility cost is approximately 78% electric, 14% natural gas/propane, 8% water and sewer – see Figure 2 below. Since water & sewer cost represent less than 10% of overall cost, no direct actions will be outlined within this report. Although efforts (low flow fixture/urinals, weather based irrigation, separate meters for cooling towers, etc.) will be made to control & reduce these costs.

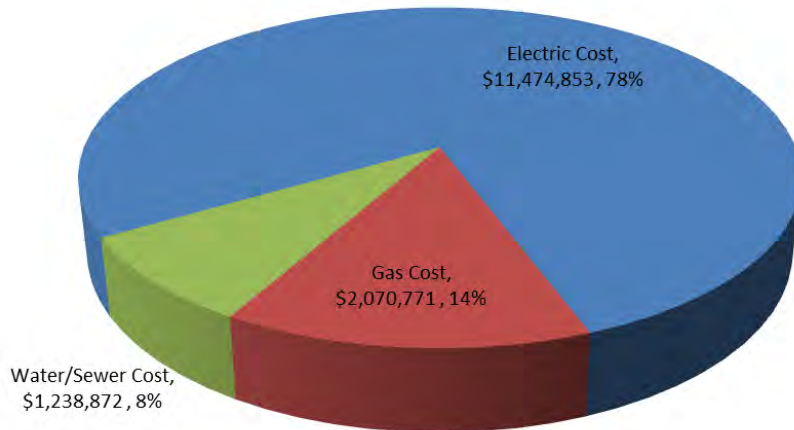


Figure 2: FY-15 Utility Cost Breakdown
Actions

An assessment of current conditions has identified the following actions, which, if taken, can move the District toward a higher savings and performance level. These actions are addressed in the SEP under the following categories.

Process Improvement:

- Adopt energy metrics, set performance targets and review Energy Report Cards
- Improve the operation of key systems

Program Implementation:

- Energy Awareness Program
- Develop and propose a Program to perform energy audits
- Commissioning program

Projects:

- Implement ECMs using reference material from EPA Energy Star Building Upgrade Manual, ASHRAE Advanced Energy Design Guide, and DOE Advanced Energy Retrofit Guide among others.



Goals

The Districtwide goal is to reduce energy expenditures by 20% in 10 years (by 2026). This would equate to a ±\$3 million reduction annually depending on utility rate escalations. To account for changing utility rates and building square footages, this goal will be measured using a target of 41 site kbtu/sf. A more detailed explanation of this process can be found below.

Current (FY-15) energy expenditures total \$13.5 million and average \$1.09 per square foot. If this goal is achieved, the District’s energy spend would be \$10.8 million and average \$0.87 per square foot – in today’s dollars.

All of the cost information in the preceding paragraph does not account for inflation of utility prices. According to the U.S. Energy Information Administration’s (EIA) [2015 Annual Energy Outlook](#), electricity prices are expected to increase by 9.5% and natural gas prices are expected to increase by 25.8% over this ten year period. Using this data, we can project that utility expenditures would top \$15 million by 2026 if usage was held constant at baseline levels. The energy reduction goal when adjusted for future utility rate increases would be \$12 million, and facilities would average \$0.97 per square foot. When including rate increases, the same 20% reduction would increase savings from \$2.7 million to just over \$3 million a year, since every unit of energy is more costly in the future. This scenario can be seen in the Figure 3 below.

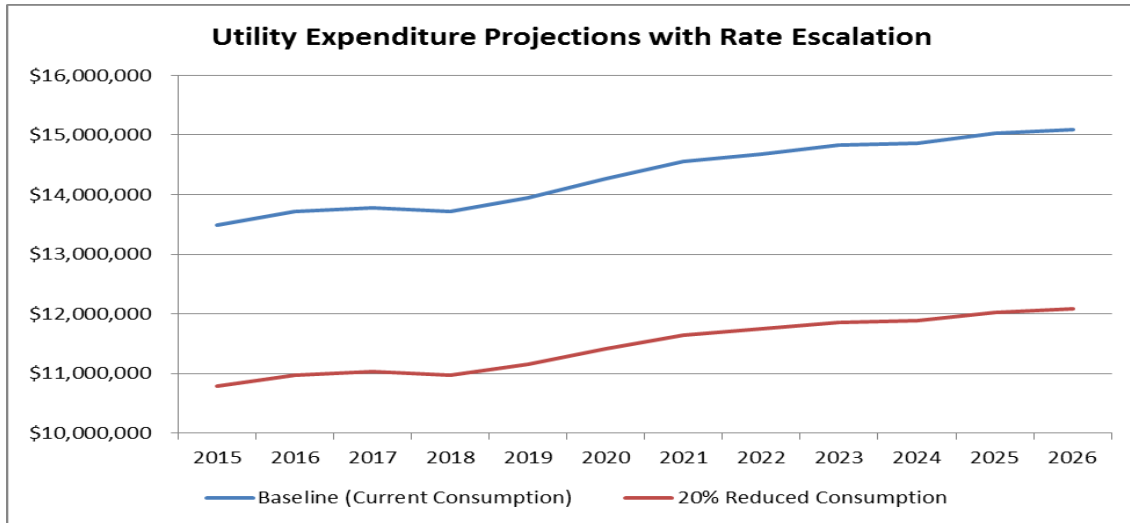


Figure 3: Effect of Utility Escalation on Current & Reduced Consumption Levels

A more direct method of quantifying this reduction is to use site energy use intensity (EUI) in kBtu per square foot. The District’s current (FY-15) weighted average is 51 site kBtu per square foot. A 20% reduction would reduce this weighted average to 41 site kBtu per square foot in 2026. This goal (41 kBtu/sf by 2026) would be a true measure of improvement that removes the need to adjust for added square footage or changing utility rates. Please note site kBtu/sf is used instead of the source kBtu/sf from the Energy Star program, because it does not incorporate adjustment factors for energy distribution.



1. Baseline Energy Use

The District’s Energy Management Department was established in January 1995. The Department’s purpose was to create energy awareness programs and to develop a District-wide concentration on energy efficiency at the various District locations. A *Site Level Energy Management Program* was developed in an effort to improve the District’s energy efficiency through no cost or low cost efforts and capital improvements. The District currently has over 100 facilities, and the proposed energy budget for FY-16 will approach \$14,000,000

The District has established and maintains, with the assistance of the SC State Energy Office, a comprehensive program for collecting and analyzing monthly energy use and consumption. This program has produced a comprehensive database of building operating information. This program can be used to identify excessive variations in energy use, billing errors, and target facilities for follow up surveys.

FY 14-15 has been used as an energy consumption baseline, because this was the most recent, complete set of 12 month consumption data when the SEP was developed in 2016. During this time, the energy ratio is approximately 85% electricity and 15% natural gas. A breakdown of energy use and cost in FY 14-15 is presented in Appendix 1 as the Baseline Energy Use and Costs. Appendices 2 and 3 include the rankings of each facility by consumption and cost per square foot, respectively.

Greenville County Schools has not compiled data for energy usage by end use type, but data from the Commercial Building Energy Consumption Survey was used as can be seen below:

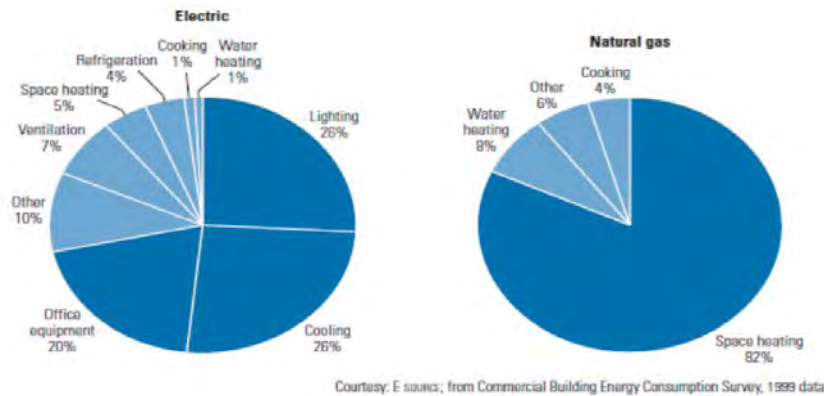


Table 1 – Energy Usage by End Use

Energy Usage by End Use	% of Electric	% of Gas	% of Overall
Cooling & Ventilation	33%		28%
Other & Office	30%	6%	26%
Lighting	26%		22%
Heating	5%	82%	17%
Water Heating, Cooking, & Refrigeration	6%	12%	7%



As shown in Figure 5 & 6, energy use per square foot has a wide variation within each facility type as noted below. Figure 4 is a legend that explains how to read this box plot.

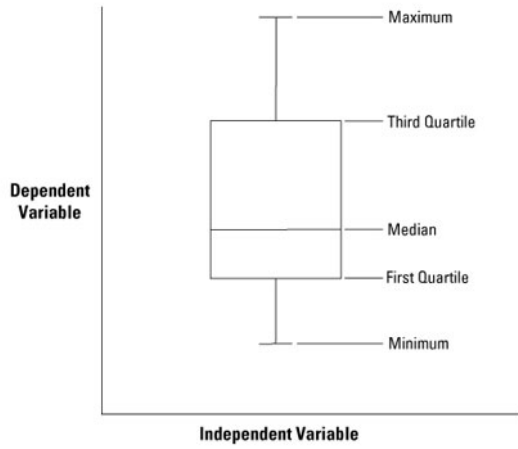


Figure 4: Box Plot Legend

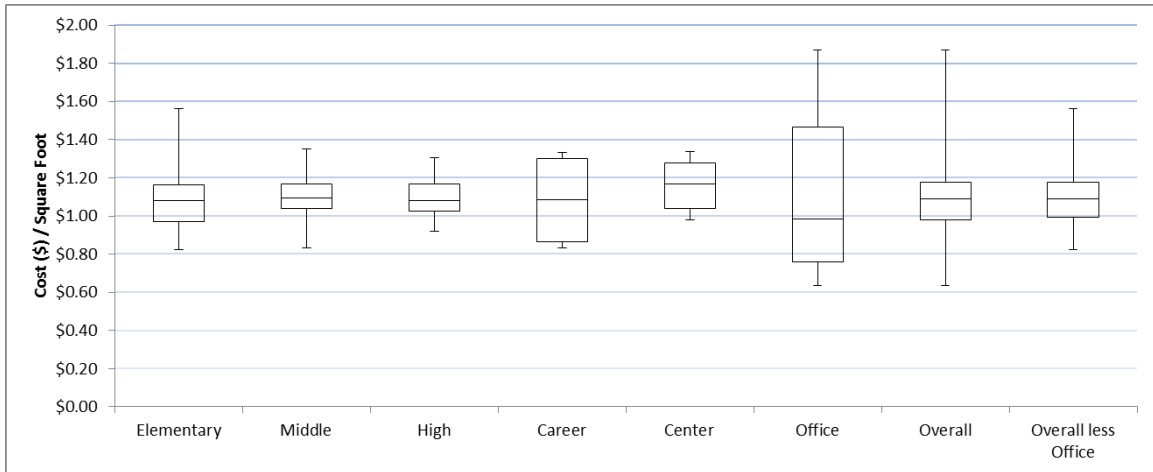


Figure 5: Energy Cost per Square Foot Box Plot

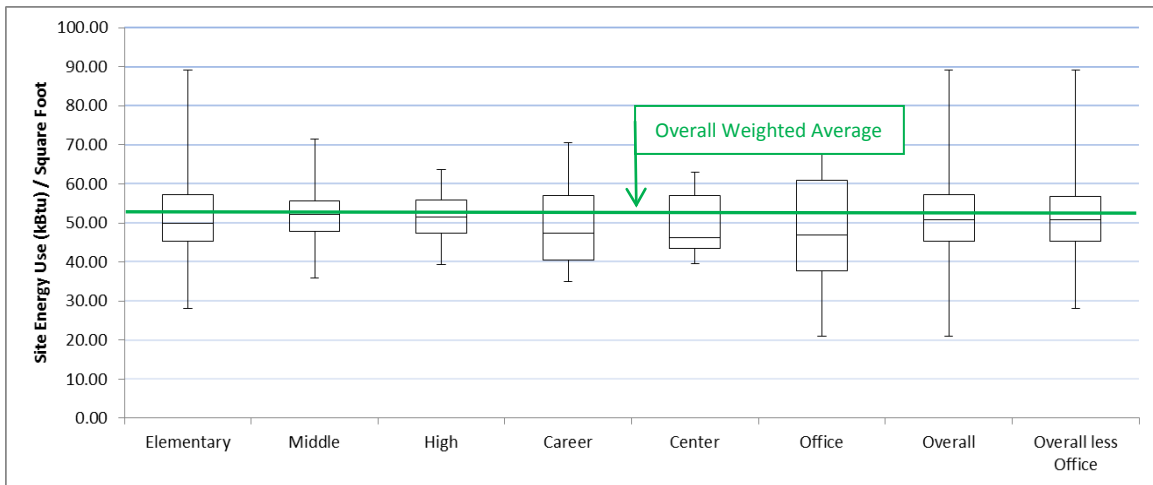


Figure 6: Site Energy Usage (kBtu) per Square Foot Box Plot



One of GCS Energy Management’s secondary goals is to have all schools achieve energy star rating. To compare with this goal, Figure 7 shows the distribution of Source Energy Usage (kBtu) per square foot, which is used by Energy Star for certification.

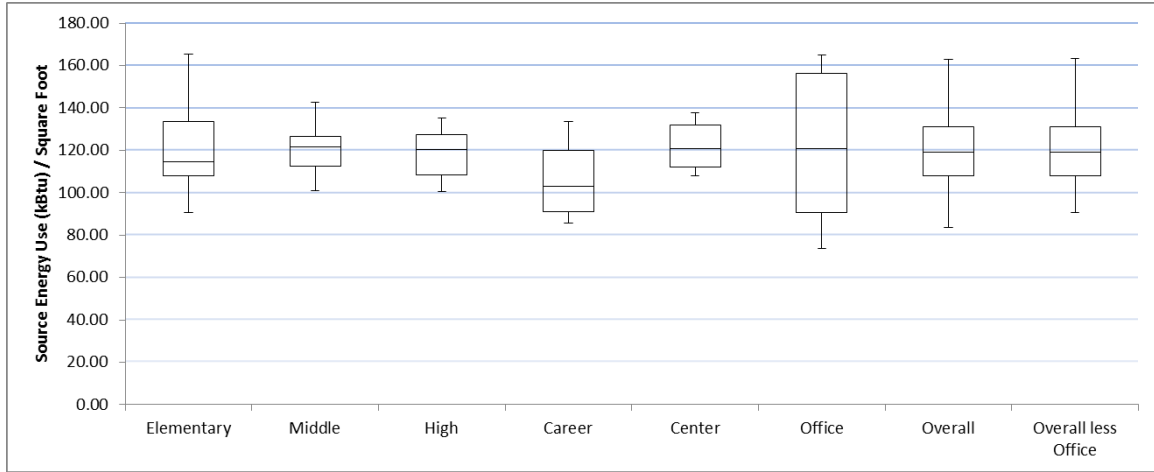


Figure 7: Source Energy Usage (kBtu) per Square Foot Box Plot

A comparison of the national median energy use levels to Greenville County Schools’ (GCS) median and 20% target reduction can be seen in Table 2 below.

Table 2: Site & Source kBtu Comparison (National Median vs. GCS Median)

	U.S. Median*	GCS Median	20% Target
Site kBtu/sf	58.2	50.6	40.5
Source kBtu/sf	141.4	119.8	95.8

*Energy Star Technical Reference – U.S. Energy Use Intensity by Property Type (March 2016)

Comparing each school’s energy cost per square foot to the average value in their respective group allows prioritization for further investigation. This review identified the following schools as using more energy than the average kBtu per SF in their group:

<u>Elementary Schools</u>	<u>Middle Schools</u>	<u>High Schools</u>
Fountain Inn	Berea	Carolina
Rudolph Gordon	Bryson	Fine Arts Center
Oakview	Hillcrest	Travelers Rest
Armstrong	West Greenville	Southside
East North Street	Greenville	Blue Ridge
Bryson	League Academy	Woodmont
Summit Drive	Northwood	Greenville
Plain	Blue Ridge	
Buena Vista	Ralph Chandler	
Gateway	Woodmont	
Lake Forest	Northwest	
Mitchell Road		
Augusta Circle		
Brook Glenn		
Mauldin		



<u>Elementary Schools</u>	<u>Middle Schools</u>	<u>High Schools</u>
Cherrydale Thomas E. Kerns Ellen Woodside Slater-Marietta Sara Collins Westcliffe Hollis Paris Grove Duncan Chapel		

These schools should be prioritized for energy audits to determine the causes for and remedies of their relatively high energy use. Resources will need to be allocated to complete these efforts. A timeline can then be established for completion based on the resources provided. Available resources and funding will be used until exhausted concentrating on the highest cost per square foot locations.

2. Planned Actions and Projects

The assessment of current conditions has also identified processes, programs and projects that should be implemented to further improve the District’s energy reduction performance. These actions encompass the five target areas: energy information, energy supply, facilities operations, systems and equipment, and business integration. They are grouped into the following categories.

2.1 Process Improvement:

Unoccupied Setpoint Adjustments – Revise unoccupied HVAC heating & cooling setpoints to 55 heating / 85 cooling to more closely match other Districts. This should be applied District wide with exceptions for undersized HVAC equipment or other extenuating factors.

Assigned to: Energy Director

Completion: Jul ‘19

Freeze Protection – Revise freeze protection programming to protect coils starting at 35° F using web-based weather stations with building level backup. This should be applied to all 4-pipe schools with freeze protection programming.

Assigned to: Energy Director

Completion: Jul ‘18

Behavior Modification – Improve staff training and implement real time metering to give instant feedback on energy use. This should include all school faculty & staff, along with custodial & maintenance departments.

Assigned to: Energy Consultant

Completion: on-going



Automated Fault Detection & Diagnosis (AFDD) – Implement automated fault detection & diagnosis software that analyzes data from the DDC controls system to look for energy savings opportunities. This program should be used on 10 schools every year for the duration of the 10 year term of this SEP.

Assigned to: Energy Consultant

Completion: on-going

2.2 Program Implementation:

Retro-Commissioning – Review and analyze current operation of facilities through retro-commissioning activities to identify and rectify energy wasting deficiencies. These activities should be performed at 2 schools per year for the 10 year term of this SEP.

Assigned to: Energy Consultant

Completion: on-going

2.3 Projects:

QZAB LED Lighting Replacements – Replace or retrofit lighting with LED fixtures at all QZAB eligible schools over the next five years. These replacements are scheduled at 70 schools as outlined in the QZAB schedule.

Assigned to: Energy Director

Completion: Dec '19

QZAB Boiler Replacements – Replace boilers at ten QZAB eligible schools over the next five years with condensing type boilers. These replacements are scheduled at the ten schools outlined in the QZAB schedule.

Assigned to: Energy Director

Completion: Dec '19

MARS Unit Replacements – Replace HVAC equipment with higher efficiency units as part of the normally scheduled MARS replacement program. This is scheduled to take place at four schools per year over the ten year term of this SEP.

Assigned to: Energy Consultant/Mechanical Projects

Completion: on-going

NOTE: The completion dates on the above tasks are based on a fully staffed Energy Management Department with no part time duties in other departments. Additionally, the MARS Unit Replacement project is contingent upon execution by the Facilities Department as outlined in the MARS planning

3. Savings Opportunity Assessment

The initiatives outlined above and quantified in Table 1 below, generally fall into two categories: short term process improvement & long term capital improvement. The short term process improvement goals come with internal challenges of breaking preconceived notions and the “that’s how we have always done it” mentality, while long term capital improvement projects come with more concrete financial and logistical challenges. With the scale of capital projects we are projecting these challenges must be faced simultaneously.



A summary of each energy conservation measures (ECM) contribution to the 20% reduction target can be found in Table 3. Additionally, Table 4 shows the same savings opportunities in terms of units (kWh, Therms, & kBtu), since this is how our target goal will be measured (kBtu/sf). The percentage of savings column from these two tables will not match, because electric & NG have different cost per unit of energy (kbtu).

Table 3 – Savings Opportunity by ECM – Cost

Non-Escalated 2016 Dollars		Annual Cost / Savings			Percentage of Total ECM Savings
		Electric	Natural Gas	Total	
Baseline FY - 2015		\$ 11,430,670	\$ 2,054,172	\$ 13,484,842	
Baseline (\$/sf)		\$1.10			
ECMs	LED Lighting Retrofit	\$ (974,176)		\$ (974,176)	32.5%
	Boiler Replacements		\$ (44,490)	\$ (44,490)	1.5%
	Unocc Stpt Adjustments	\$ (177,175)	\$ (85,411)	\$ (262,587)	8.8%
	Retro-Commissioning	\$ (386,333)	\$ (88,363)	\$ (474,696)	15.8%
	Freeze Protection	\$ (11,564)		\$ (11,564)	0.4%
	MARS Unit Replacements	\$ (87,340)	\$ (51,984)	\$ (139,323)	4.6%
	Behavior Modification	\$ (259,598)	\$ (45,449)	\$ (305,047)	10.2%
	Automated Fault Detection	\$ (666,343)	\$ (118,493)	\$ (784,836)	26.2%
Post-Installation		\$ 8,868,141	\$ 1,619,981	\$ 10,488,122	22%
Post-Installation (\$/sf)		\$0.85			
20% Reduction Target		\$ 9,144,536	\$ 1,643,338	\$ 10,787,874	20%
20% Reduction (\$/sf)		\$0.88			
Surplus / Shortage		\$ 276,395	\$ 23,357	\$ 299,752	-2%

Table 4 – Savings Opportunity by ECM – Units

Units of Energy		Annual Usage / Savings			Percentage of Total ECM Savings
		Electric (kWh)	NG (Therms)	Total (kbtu)	
Baseline FY - 2015		113,581,170	2,404,615	628,000,483	
Baseline EUI (kbtu/sf)		51			
ECMs	LED Lighting Retrofit	-9,852,479		-33,616,660	24.0%
	Boiler Replacements		-53,915	-5,391,489	3.8%
	Unocc Stpt Adjustments	-1,760,508	-99,905	-15,997,331	11.4%
	Retro-Commissioning	-4,100,304	-107,555	-24,745,703	17.7%
	Freeze Protection	-165,202		-563,671	0.4%
	MARS Unit Replacements	-863,665	-61,898	-9,136,633	6.5%
	Behavior Modification	-2,589,193	-53,320	-14,166,307	10.1%
	Automated Fault Detection	-6,645,626	-139,060	-36,580,914	26.1%
Post-Installation		87,604,192	1,888,963	487,801,777	22%
Post-Installation EUI (kbtu/sf)		40			
20% Reduction Target		90,864,936	1,923,692	502,400,386	20%
20% Reduction EUI (kbtu/sf)		41			
Surplus / Shortage		3,260,744	34,729	14,598,609	-2%



Process Improvement Savings:

Unoccupied Setpoint Adjustments – Currently Districtwide setpoints are occupied 69 htg / 73 clg, and unoccupied 60 htg / 80 clg. Speaking with other School Districts around the state, these setpoints are very generous. Unoccupied setpoints of 55 htg / 85 clg are proposed as a part of this strategic energy plan. There would be exceptions for facilities that are undersized or heat pump schools with electric resistance heat in winter.

Savings for this improvement was estimated to be 1% of heating and cooling cost for every degree of setback (5° heating & 5° cooling). Space heating was estimated to be 82% of natural gas cost and 5% of electric cost, while cooling was estimated to be 26% of electric cost (Source: Commercial Building Energy Consumption Survey -1999). The natural gas savings was calculated after reducing natural gas cost from proposed boiler replacement savings.

Freeze Protection – Currently freeze protection programming is in place Districtwide, which turns all chilled water (CHW) pumps on when outside air temperatures are below 40° F. This programming is meant to be an added protection against freezing CHW coils; however, once outside air sensors are upgraded and/or referenced to a web-based weather station, this plan proposes to change this setpoint to 35° F.

Based on typical meteorological year (TMY3) weather data for Greenville, SC, there are a total of 538 hours between 35° F & 40° F. There are 38 schools with chilled water systems, and assuming each school is averaging 10 hp during this mode we can estimate the savings from this improvement.

Behavior Modification – The Energy Management Department will continue to improve training, monitoring, and displaying information related to energy conservation. This includes real time metering with dashboards to turn energy savings into a real time competition between schools and improving training for school staff.

These savings are estimated to be 3% of total utility costs (after other ECMs) due to the Hawthorne Effect.

Automated Fault Detection & Diagnosis (AFDD) – Greenville County Schools plans to leverage their DDC controls system using automated fault detection and diagnosis software. This program will monitor trend data for equipment that is operating in an energy wasteful manner. This technology is available in the marketplace, but is still being refined into a more useable format.

Savings was estimated to be 5% of utility spend at each school (after other ECMs). Greenville County Schools plans to study 10 schools per year over the ten year term of this strategic energy plan.



Program Implementation Savings:

Retro-Commissioning - The Energy Management Department has selected and preformed Retro-Cx audits with a select group of professionals. These activities will be focused on the worse performing facilities (highest kBtu/sf). The intent is to perform 2 audits per year over the 10 year period.

The savings from this ECM is calculated based on 15% energy savings (Source: LBNL, Portland Energy Conservation, and the Energy Systems Laboratory at Texas A&M University – December 2004) on the 10 worse Elementary Schools, 5 worse Middle Schools, and 5 worse High Schools.

Projects Savings:

LED Lighting Replacements – Currently light fixtures are being replaced with LED fixtures by maintenance staff on an as needed basis as part of the re-lamping process, with priority given to high burn hour fixtures. The District will replace all non-specialty lighting with LED using QZAB bond funds on eligible schools.

Lighting is estimated to be 26% of the overall building electrical use and a change to LED is estimated to save 50% of this usage (Source: Energy Star Building Manual Chapter 10 K-12 Schools). This includes savings from reduced cooling loads associated with lower wattage fixtures.

Boiler Replacement – Many of the facilities around the District use older inefficient fire tube atmospheric boilers. These boilers must operate at higher hot water supply temperatures to keep the boiler from condensing, and the boilers are operated year-round to maintain reheat capabilities in the summer and reduce leakage from dielectric unions. By replacing the boilers with condensing type, hot water temperatures can be lowered considerably during summer and shoulder months to maintain reheat capabilities and take advantage of higher efficiencies in condensing mode.

This boiler replacement has been performed at facilities in the District and has been shown to save 25% on natural gas (NG) expenditures. Savings are estimated using this 25% NG savings. This project will be performed using QZAB bond funds on ten eligible schools.

MARS Unit Replacements – Greenville County Schools already works to maintain best in class facilities by proactively replacing end of life equipment before unit failures become common place. When units are replaced on a school wide basis as a part of this program, an energy efficient option is chosen.

These replacements are estimated to yield a 10% improvement in equipment efficiency. Schoolwide unit replacements are planned at a rate of 4 schools per year over the ten year term of this strategic energy plan.



4. Goals and Measures

Greenville County Schools Energy Management Department has developed these long term goals,

The goal of this SEP is to reduce the energy consumption by 20% to 41 kBtu/SF. Energy investment projects will be identified and developed to achieve a Simple Payback Period of eight (8) years or less or a simple Return on Investment of 2.5 or greater. A secondary goal is to earn Energy Star certification for all District schools

Greenville County Schools Energy Management Department will track the progress of this SEP with the following metrics.

Total energy cost for the District and for each facility
Utility consumption, cost and unit cost for the District and each facility
Total energy use for the District and for each facility
Trend graphs of these metrics will be plotted throughout the fiscal year
Facilities will be grouped by similar type and ranked annually on the basis of these metrics.



APPENDIX 1
FY 14-15 Baseline Energy Cost

Greenville County Schools

Energy Cost Change by Site -- 07/2014 thru 06/2015

Site	07/14 thru 06/15				Site Comparison Year				% Chg
	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	
Mauldin HS 273	\$354,636	\$55,348		\$0 \$409,984	\$451,902	\$198,225		\$0 \$650,127	-36.9%
Riverside HS 349	\$255,514	\$63,623		\$0 \$319,137	\$218,366	\$68,330		\$0 \$286,696	+11.3%
Greenville HS 210	\$259,341	\$44,440		\$0 \$303,781	\$197,666	\$84,239		\$0 \$281,905	+7.8%
Woodmont HS 509	\$256,308	\$42,466		\$0 \$298,774	\$204,363	\$60,664		\$0 \$265,028	+12.7%
Greer HS 214	\$256,199	\$28,839		\$0 \$285,038	\$243,834	\$28,149		\$0 \$271,983	+4.8%
Hillcrest HS 232	\$238,224	\$40,651		\$0 \$278,876	\$221,448	\$106,727		\$0 \$328,175	-15.0%
Travelers Rest HS 466	\$203,805	\$46,393		\$0 \$250,198	\$181,987	\$86,437		\$0 \$268,424	-6.8%
Wade Hampton HS 476	\$210,553	\$28,944		\$0 \$239,496	\$211,079	\$52,132		\$0 \$263,211	-9.0%
Blue Ridge HS 080	\$169,673	\$57,502	\$5,047	\$232,222	\$167,583	\$63,138	\$1,106	\$231,827	+0.2%
JL Mann HS 269	\$194,167	\$32,223		\$0 \$226,390	\$158,440	\$44,538		\$0 \$202,978	+11.5%
Eastside HS 161	\$181,986	\$35,295		\$0 \$217,281	\$157,341	\$68,885		\$0 \$226,226	-4.0%
Southside HS 414	\$180,420	\$33,728		\$0 \$214,148	\$180,697	\$59,529		\$0 \$240,225	-10.9%
Berea HS 066	\$175,136	\$32,295		\$0 \$207,431	\$162,910	\$48,570		\$0 \$211,479	-1.9%
Carolina HS 107	\$158,358	\$31,963		\$0 \$190,322	\$162,842	\$53,452		\$0 \$216,295	-12.0%
Riverside MS 352	\$163,185	\$24,037		\$0 \$187,222	\$142,455	\$36,659		\$0 \$179,113	+4.5%
Mauldin MS 274	\$152,233	\$23,671		\$0 \$175,904	\$144,414	\$32,399		\$0 \$176,812	-0.5%
Greer MS 123	\$145,202	\$23,444		\$0 \$168,646	\$138,581	\$26,395		\$0 \$164,976	+2.2%
Oakview ES 365	\$149,994	\$13,362		\$0 \$163,356	\$125,840	\$14,947		\$0 \$140,787	+16.0%
Mauldin ES 279	\$139,855	\$22,505		\$0 \$162,360	\$122,182	\$38,019		\$0 \$160,201	+1.3%
Blue Ridge MS 082	\$119,601	\$66,728		\$0 \$156,329	\$140,532	\$77,485		\$0 \$218,017	-28.3%
MT Anderson 415	\$151,691	\$1,575		\$0 \$153,266	\$99,967	\$3,354		\$0 \$103,321	+48.3%
Woodmont MS 510	\$112,922	\$39,941		\$0 \$152,863	\$120,095	\$82,482		\$0 \$202,577	-24.5%
Hillcrest MS 277	\$122,562	\$29,044		\$0 \$151,606	\$112,361	\$7,535		\$0 \$119,897	+26.4%
Duncan Chapel ES 141	\$115,590	\$32,676		\$0 \$148,266	\$98,079	\$43,532		\$0 \$141,610	+4.7%
League Academy MS 263	\$123,705	\$24,330		\$0 \$148,035	\$115,380	\$38,233		\$0 \$153,612	-3.6%
Sterling School 054	\$131,507	\$14,204		\$0 \$145,711	\$124,311	\$22,813		\$0 \$147,124	-1.0%
Hughes Academy MS 240	\$128,013	\$17,278		\$0 \$145,291	\$113,042	\$33,987		\$0 \$147,029	-1.2%
Woodland ES 506	\$122,772	\$22,007		\$0 \$144,779	\$113,517	\$33,877		\$0 \$147,394	-1.8%
Greenville MS 205	\$124,744	\$19,391		\$0 \$144,135	\$101,711	\$36,564		\$0 \$138,275	+4.2%
Hollis Academy ES 251	\$122,039	\$20,442		\$0 \$142,481	\$103,195	\$35,644		\$0 \$138,839	+2.6%
Bryson MS 072	\$118,610	\$21,166		\$0 \$139,777	\$138,670	\$50,490		\$0 \$189,160	-26.1%
Sara Collins ES 333	\$111,889	\$26,059		\$0 \$137,948	\$105,774	\$41,755		\$0 \$147,529	-6.5%
Chandler Creek ES 121	\$115,594	\$21,672		\$0 \$137,265	\$103,299	\$27,019		\$0 \$130,318	+5.3%
Dr. Phinnize J. Fisher MS 275	\$124,721	\$9,173		\$0 \$133,893		\$0	\$0	\$0	N/A
Northwood MS 386	\$106,567	\$26,473		\$0 \$133,041	\$106,725	\$40,403		\$0 \$147,128	-9.6%
Northwest MS 303	\$105,247	\$25,065	\$301	\$130,614	\$83,390	\$23,065	\$262	\$106,717	+22.4%
Berea MS 062	\$111,376	\$18,473		\$0 \$129,849	\$123,046	\$42,563		\$0 \$165,609	-21.6%
Crestview ES 115	\$120,990	\$6,202		\$0 \$127,192	\$110,628	\$17,211		\$0 \$127,839	-0.5%
Ralph Chandler MS 403	\$100,529	\$25,080		\$0 \$125,609	\$80,728	\$33,694		\$0 \$114,421	+9.8%
Beck MS 056	\$104,923	\$19,737		\$0 \$124,660	\$87,794	\$34,199		\$0 \$121,993	+2.2%
Grove ES 308	\$92,102	\$30,421		\$0 \$122,523	\$90,178	\$36,557		\$0 \$126,735	-3.3%
Fountain Inn ES 186	\$96,594	\$25,089		\$0 \$121,683	\$98,480	\$23,424		\$0 \$121,904	-0.2%
Blythe Academy ES 086	\$99,791	\$21,383		\$0 \$121,174	\$86,854	\$30,571		\$0 \$117,424	+3.2%
Bryson ES 068	\$105,909	\$14,992		\$0 \$120,900	\$80,743	\$7,669		\$0 \$88,412	+36.7%

Greenville County Schools

Energy Cost Change by Site -- 07/2014 thru 06/2015

Site	07/14 thru 06/15				Site Comparison Year				% Chg
	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	
Plain ES 338	\$96,918	\$22,931	\$0	\$119,849	\$96,605	\$43,150	\$0	\$139,754	-14.2%
Lakeview MS 385	\$100,519	\$18,685	\$0	\$119,203	\$95,645	\$26,264	\$0	\$121,909	-2.2%
Bells Crossing ES 396	\$97,864	\$19,958	\$0	\$117,822	\$93,754	\$37,681	\$0	\$131,434	-10.4%
Tanglewood MS 444	\$101,438	\$16,302	\$0	\$117,739	\$93,399	\$28,021	\$0	\$121,420	-3.0%
Buena Vista ES 052	\$99,205	\$17,954	\$0	\$117,159	\$93,987	\$33,642	\$0	\$127,629	-8.2%
East North Street ES 156	\$98,991	\$17,763	\$0	\$116,754	\$87,080	\$30,329	\$0	\$117,409	-0.6%
Thomas E. Kerns ES 203	\$94,640	\$18,231	\$0	\$112,871	\$81,161	\$23,701	\$0	\$104,862	+7.6%
Gateway ES 188	\$94,667	\$17,361	\$0	\$112,028	\$83,529	\$25,061	\$0	\$108,591	+3.2%
Lake Forest ES 254	\$91,477	\$17,844	\$0	\$109,321	\$83,780	\$50,474	\$0	\$134,254	-18.6%
Ellen Woodside ES 168	\$87,319	\$21,875	\$0	\$109,194	\$71,671	\$26,429	\$0	\$98,100	+11.3%
Greenbrier ES 200	\$86,125	\$19,562	\$0	\$105,687	\$80,955	\$33,686	\$0	\$114,641	-7.8%
Mitchell Road ES 280	\$83,116	\$22,058	\$0	\$105,174	\$82,228	\$43,777	\$0	\$126,005	-16.5%
Rudolph Gordon ES 020	\$78,409	\$24,607	\$0	\$103,017	\$73,653	\$29,655	\$0	\$103,308	-0.3%
Slater-Marietta ES 406	\$82,012	\$20,923	\$0	\$102,934	\$73,932	\$29,424	\$0	\$103,356	-0.4%
Monarch ES 402	\$92,332	\$10,591	\$0	\$102,922	\$0	\$0	\$0	\$0	N/A
Sevier MS 389	\$85,497	\$16,699	\$0	\$102,195	\$78,995	\$38,799	\$0	\$117,794	-13.2%
Paris ES 316	\$86,636	\$13,870	\$0	\$100,506	\$72,914	\$29,848	\$0	\$102,762	-2.2%
Brushy Creek ES 096	\$77,495	\$20,488	\$0	\$97,983	\$84,873	\$33,767	\$0	\$118,640	-17.4%
Golden Strip CC 190	\$80,736	\$15,540	\$917	\$97,192	\$74,548	\$25,987	\$797	\$101,332	-4.1%
Bethel ES 276	\$93,235	\$2,361	\$0	\$95,596	\$92,437	\$9,481	\$0	\$101,917	-6.2%
Distribution Center 730	\$67,202	\$16,750	\$10,494	\$94,446	\$60,369	\$23,899	\$2,973	\$87,240	+8.3%
Berea ES 061	\$88,900	\$4,515	\$0	\$93,415	\$66,493	\$4,582	\$0	\$71,075	+31.4%
Fork Shoals ES 181	\$87,550	\$5,687	\$0	\$93,237	\$83,515	\$9,224	\$3,564	\$96,303	-3.2%
J. Harley Bonds CC 218	\$81,724	\$10,526	\$0	\$92,250	\$76,096	\$16,412	\$0	\$92,508	-0.3%
AJ Whittenburg ES 478	\$78,875	\$11,692	\$0	\$90,567	\$0	\$0	\$0	\$0	N/A
Cherrydale ES 381	\$71,442	\$18,372	\$0	\$89,814	\$70,558	\$22,815	\$0	\$93,373	-3.8%
Monaview ES 286	\$73,716	\$15,862	\$0	\$89,578	\$78,269	\$24,550	\$0	\$102,819	-12.9%
District Office 709	\$87,120	\$2,404	\$0	\$89,524	\$76,167	\$3,127	\$0	\$79,295	+12.9%
Pelham Road ES 336	\$69,240	\$20,175	\$0	\$89,414	\$61,573	\$23,931	\$0	\$85,504	+4.6%
Sue Cleveland ES 431	\$75,070	\$13,705	\$0	\$88,775	\$74,251	\$17,444	\$0	\$91,696	-3.2%
Augusta Circle ES 045	\$72,877	\$15,835	\$0	\$88,712	\$56,992	\$19,616	\$0	\$76,608	+15.8%
Brook Glenn ES 153	\$72,982	\$14,490	\$0	\$87,473	\$67,481	\$24,288	\$0	\$91,769	-4.7%
Skyland ES 401	\$81,115	\$5,724	\$0	\$86,839	\$66,920	\$14,176	\$0	\$81,096	+7.1%
Taylor ES 449	\$68,180	\$17,453	\$0	\$85,633	\$77,529	\$36,207	\$0	\$113,736	-24.7%
Armstrong ES 031	\$67,661	\$17,078	\$0	\$84,739	\$62,571	\$33,217	\$0	\$95,788	-11.5%
Welcome ES 475	\$74,904	\$9,478	\$0	\$84,383	\$69,149	\$24,251	\$0	\$93,400	-9.7%
Simpsonville ES 292	\$71,264	\$12,976	\$0	\$84,239	\$64,092	\$20,066	\$0	\$84,158	+0.1%
Heritage ES 135	\$73,006	\$9,795	\$0	\$82,801	\$69,719	\$40,486	\$0	\$110,206	-24.9%
Stone Academy ES 425	\$70,108	\$11,968	\$0	\$82,076	\$62,896	\$16,366	\$0	\$79,262	+3.6%
Robert E. Cashion ES 151	\$67,122	\$14,085	\$0	\$81,207	\$60,022	\$17,898	\$0	\$77,921	+4.2%
Mountain View ES 296	\$62,582	\$18,498	\$0	\$81,080	\$66,719	\$26,388	\$0	\$93,107	-12.9%
Westcliffe ES 479	\$58,627	\$17,174	\$0	\$75,800	\$52,052	\$21,751	\$0	\$73,803	+2.7%
Summit Drive ES 441	\$62,879	\$12,557	\$0	\$75,437	\$56,768	\$25,446	\$0	\$82,214	-8.2%
Washington Center 501	\$60,248	\$12,517	\$0	\$72,765	\$56,955	\$25,645	\$0	\$82,600	-11.9%

Greenville County Schools

Energy Cost Change by Site -- 07/2014 thru 06/2015

Site	07/14 thru 06/15				Site Comparison Year				% Chg
	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	
Alexander ES 012	\$62,511	\$9,649		\$72,160	\$48,159	\$14,792		\$62,951	+14.6%
Enoree CC 172	\$50,550	\$19,899		\$70,449	\$48,672	\$34,822		\$83,494	-15.6%
Fine Arts Center 178	\$53,659	\$13,487		\$67,146	\$59,561	\$24,252		\$83,813	-19.9%
Tigerville ES 456	\$46,523	\$13,902		\$60,426	\$49,771	\$18,602		\$68,373	-11.6%
Donaldson CC 128	\$46,559	\$10,319		\$56,879	\$46,811	\$18,680		\$65,490	-13.1%
Warehouse Annex 730	\$30,220	\$20,331		\$50,551	\$0	\$0		\$0	\$0 N/A
Sullivan Center 435	\$49,546	\$0		\$49,546	\$22,152	\$0		\$22,152	+123.7%
Greenview CDC 202	\$40,635	\$4,392		\$45,027	\$40,549	\$6,255		\$46,804	-3.8%
Mauldin HS 273 Detached	\$40,761	\$0		\$40,761	\$22,722	\$0		\$22,722	+79.4%
West Greenville School 950	\$32,845	\$7,717		\$40,562	\$28,409	\$12,076		\$40,485	+0.2%
Roper Mtn Sci Ctr 355 NaturalScience	\$40,198	\$0		\$40,198	\$24,146	\$0		\$24,146	+66.5%
J. Harley Bonds CC 218 Detached	\$23,640	\$14,647		\$38,287	\$21,891	\$17,274		\$39,164	-2.2%
Paul L. Dunbar CDC 464	\$33,376	\$3,560		\$36,936	\$30,041	\$7,280		\$37,321	-1.0%
Hillcrest HS 232 Detached	\$30,684	\$2,230		\$32,914	\$17,253	\$3,216		\$20,469	+60.8%
Wade Hampton ES 471	\$22,375	\$9,748		\$32,123	\$24,268	\$19,846		\$44,114	-27.2%
Golden Strip CDC 822	\$24,518	\$7,577		\$32,095	\$32,518	\$5,873		\$38,391	-16.4%
Wade Hampton HS 476 Detached	\$30,298	\$0		\$30,298	\$22,380	\$0		\$22,380	+35.4%
Northwest Crescent CDC 058	\$26,097	\$4,037		\$30,133	\$24,886	\$6,488		\$31,374	-4.0%
Roper Mtn Sci Ctr 355	\$16,266	\$0	\$13,613	\$29,879	\$16,385	\$0	\$9,011	\$25,395	+17.7%
Blue Ridge HS 080 Detached	\$29,122	\$0		\$29,122	\$24,310	\$0		\$24,310	+19.8%
Roper Mtn Sci Ctr 355 Hall of Sci	\$27,638	\$0		\$27,638	\$16,143	\$0		\$16,143	+71.2%
Greer HS 214 Detached	\$25,171	\$0		\$25,171	\$11,088	\$0		\$11,088	+127.0%
JL Mann HS 269 Detached	\$25,081	\$0		\$25,081	\$25,350	\$0		\$25,350	-1.1%
Berea HS 066 Detached	\$21,808	\$1,816		\$23,624	\$17,469	\$1,671		\$19,140	+23.4%
Riley CDC 462	\$20,906	\$2,495		\$23,401	\$18,285	\$3,828		\$22,112	+5.8%
Overbrook CDC 300	\$21,084	\$1,589		\$22,672	\$25,857	\$1,969		\$27,827	-18.5%
Greenville HS 210 Detached	\$21,375	\$0		\$21,375	\$16,909	\$0		\$16,909	+26.4%
J. Harley Bonds CC 218 Portables	\$19,417	\$0		\$19,417	\$0	\$0		\$0	\$0 N/A
Eastside HS 161 Detached	\$14,846	\$2,018		\$16,864	\$14,338	\$0		\$14,338	+17.6%
Southside HS 414 Detached	\$16,821	\$0		\$16,821	\$14,081	\$0		\$14,081	+19.5%
Riverside HS 349 Detached	\$16,270	\$0		\$16,270	\$11,909	\$0		\$11,909	+36.6%
Roper Mtn Sci Ctr 355 Planetarium	\$15,303	\$0		\$15,303	\$7,405	\$0		\$7,405	+106.7%
Donaldson Bus Office 453	\$12,578	\$1,097		\$13,675	\$0	\$0		\$0	\$0 N/A
Enoree CC 172 Portables	\$13,461	\$0		\$13,461	\$437	\$0		\$437	+2978.3%
Taylor Bus Center 446	\$7,939	\$2,200		\$10,139	\$5,815	\$2,279		\$8,094	+25.3%
Roper Mtn Sci Ctr 355 Portables	\$8,018	\$0		\$8,018	\$5,164	\$0		\$5,164	+55.3%
Donaldson Bus Center 451	\$5,697	\$2,216		\$7,913	\$2,629	\$3,873		\$6,502	+21.7%
Roper Mtn Sci Ctr 355 Conference Ctr	\$7,412	\$0		\$7,412	\$6,376	\$0		\$6,376	+16.3%
Oakview ES 365 Portables	\$7,073	\$0		\$7,073	\$2,761	\$0		\$2,761	+156.1%
District Office Annex 903	\$6,887	\$0		\$6,887	\$10,369	\$0		\$10,369	-33.6%
Golden Strip Bus Office 448	\$6,828	\$0		\$6,828	\$5,238	\$0		\$5,238	+30.4%
Golden Strip Support Office 904	\$6,440	\$0		\$6,440	\$2,972	\$0		\$2,972	+116.7%
Bethel ES 276 Portables	\$5,631	\$0		\$5,631	\$840	\$0		\$840	+570.3%
Berea Bus Center 174	\$5,374	\$0		\$5,374	\$0	\$0		\$0	\$0 N/A

Greenville County Schools

Energy Cost Change by Site -- 07/2014 thru 06/2015

Site	07/14 thru 06/15				Site Comparison Year			% Chg	
	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	Total Elec Cost	Natural Gas Cost	Other Fossil Cost		Total Energy Cost
Fountain Inn ES 186 Portables	\$5,294	\$0	\$0	\$5,294		\$0	\$0	\$0	N/A
Bryson MS 072 Portables	\$5,046	\$0	\$0	\$5,046	\$9,228	\$0	\$0	\$9,228	-45.3%
Distribution Center 730 Detached	\$4,967	\$0	\$0	\$4,967	\$3,322	\$0	\$0	\$3,322	+49.5%
Beck MS 056 Portables	\$4,883	\$0	\$0	\$4,883		\$0	\$0	\$0	N/A
Roper Mtn Sci Ctr 355 Detached	\$4,531	\$0	\$0	\$4,531	\$6,323	\$0	\$0	\$6,323	-28.3%
Welcome ES 475 Portables	\$4,338	\$0	\$0	\$4,338		\$0	\$0	\$0	N/A
Roper Mtn Sci Ctr 355 Amphitheatre	\$4,310	\$0	\$0	\$4,310	\$2,529	\$0	\$0	\$2,529	+70.4%
Golden Strip CC 190 Portables	\$2,485	\$0	\$0	\$2,485		\$0	\$0	\$0	N/A
Bells Crossing ES 396 Portables	\$2,418	\$0	\$0	\$2,418	\$2,572	\$0	\$0	\$2,572	-6.0%
Augusta Circle ES 045 Portables	\$2,374	\$0	\$0	\$2,374		\$0	\$0	\$0	N/A
Wade Hampton ES 471 Portables	\$2,346	\$0	\$0	\$2,346	\$5,425	\$0	\$0	\$5,425	-56.8%
Blue Ridge MS 082 Detached	\$2,217	\$0	\$0	\$2,217		\$0	\$0	\$0	N/A
Hillcrest HS 232 Portables	\$1,918	\$0	\$0	\$1,918	\$3,003	\$0	\$0	\$3,003	-36.1%
Brook Glenn ES 153 Portables	\$1,576	\$0	\$0	\$1,576		\$0	\$0	\$0	N/A
Mauldin HS 273 Portables	\$1,408	\$0	\$0	\$1,408	\$1,402	\$0	\$0	\$1,402	+0.5%
Mauldin MS 274 Portables	\$1,313	\$0	\$0	\$1,313	\$1,687	\$0	\$0	\$1,687	-22.2%
Donaldson CC 128 Portables	\$1,293	\$0	\$0	\$1,293		\$0	\$0	\$0	N/A
Woodland ES 506 Detached	\$1,185	\$0	\$0	\$1,185		\$0	\$0	\$0	N/A
Distribution Center 730 Portables	\$1,087	\$0	\$0	\$1,087	\$1,645	\$0	\$0	\$1,645	-33.9%
Sullivan Center 435 Portables	\$853	\$0	\$0	\$853	\$3,328	\$0	\$0	\$3,328	-74.4%
Golden Strip CC 190 Detached	\$725	\$0	\$0	\$725	\$682	\$0	\$0	\$682	+6.3%
Roper Mtn Sci Ctr 355 Observatory	\$521	\$0	\$0	\$521	\$717	\$0	\$0	\$717	-27.3%
Fork Shoals ES 181 Detached	\$372	\$0	\$0	\$372		\$0	\$0	\$0	N/A
Berea ES 061 Portables	\$305	\$0	\$0	\$305	\$16	\$0	\$0	\$16	+1780.9%
Buena Vista ES 052 Detached	\$223	\$0	\$0	\$223	\$150	\$0	\$0	\$150	+49.3%
Overbrook CDC 300 Portables	\$218	\$0	\$0	\$218	\$517	\$0	\$0	\$517	-57.9%
Paul L. Dunbar CDC 464 Portables	\$190	\$0	\$0	\$190	\$209	\$0	\$0	\$209	-8.8%
Mauldin ES 279 Portables	\$170	\$0	\$0	\$170	\$1,485	\$0	\$0	\$1,485	-88.5%
Golden Strip CDC 822 Portables	\$146	\$0	\$0	\$146	\$448	\$0	\$0	\$448	-67.3%
Northwest Crescent CDC 058 Portables	\$144	\$0	\$0	\$144	\$471	\$0	\$0	\$471	-69.5%
Fork Shoals ES 181 Portables	\$115	\$0	\$0	\$115		\$0	\$0	\$0	N/A
Greenville MS 205 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Hillcrest MS 277 Portables	\$0	\$0	\$0	\$0	\$1,264	\$0	\$0	\$1,264	N/A
Travelers Rest HS Detached	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Lakeview MS 385 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Slater-Marietta ES 406 Portables	\$0	\$0	\$0	\$0	\$2,063	\$0	\$0	\$2,063	N/A
Gateway ES 188 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Woodland ES 506 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Berea MS 062 Portables	\$0	\$0	\$0	\$0	\$699	\$0	\$0	\$699	N/A
District Office Annex 903 Portables	\$0	\$0	\$0	\$0	\$3,250	\$0	\$0	\$3,250	N/A
Grove ES 308 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Blue Ridge HS 080 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Greenbrier ES 200 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A
Crestview ES 115 Portables	\$0	\$0	\$0	\$0		\$0	\$0	\$0	N/A

Greenville County Schools

Energy Cost Change by Site -- 07/2014 thru 06/2015

Site	07/14 thru 06/15				Site Comparison Year				% Chg
	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	Total Elec Cost	Natural Gas Cost	Other Fossil Cost	Total Energy Cost	
Cherrydale ES 381 Portables	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	N/A
Buena Vista ES 052 Portables	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	N/A
Bryson ES 068 Portables	\$0	\$0	\$0	\$0	\$3,236	\$0	\$0	\$3,236	N/A
Lake Forest ES 254 Portables	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	N/A
Company Totals:	\$11,416,214	\$2,049,172	\$30,372	\$13,495,758	\$10,146,716	\$3,289,597	\$17,712	\$13,454,025	+0.3%

APPENDIX 2
FY 14-15 Facilities Ranking: Use per SF

Greenville County Schools

Site Energy Use Comparison -- 07/2014 thru 06/2015

Site	Electricity (kWh)	Natural Gas (Therms)	Other Fossil (kWh)	Total Energy (kWh)	% Chg	SqFt	kWh/SqFt
Mauldin HS 273	3,166,404	69,921	0	5,215,788	-48.7%	347,405	15
Greenville HS 210	2,911,068	56,983	0	4,581,240	-6.0%	248,756	18
Woodmont HS 509	2,887,928	54,221	0	4,477,145	+3.1%	291,424	15
Riverside HS 349	2,238,914	61,910	0	4,053,496	+7.9%	286,332	14
Hillcrest HS 232	2,547,016	50,927	0	4,039,686	-31.9%	319,983	13
Travelers Rest HS 466	2,111,144	57,881	0	3,807,636	-16.1%	234,768	16
Blue Ridge HS 080	1,788,480	55,705	32,184	3,453,378	-5.6%	205,474	17
Wade Hampton HS 476	2,283,802	35,000	0	3,309,646	-25.2%	244,946	14
Eastside HS 161	1,980,472	44,291	0	3,278,641	-18.8%	236,987	14
Southside HS 414	2,001,413	43,300	0	3,270,536	-17.8%	203,341	16
JL Mann HS 269	2,075,100	39,335	0	3,228,009	-0.4%	302,133	11
Greer HS 214	2,395,637	27,930	0	3,214,265	-5.7%	275,000	12
Berea HS 066	1,912,918	40,227	0	3,091,971	-8.7%	218,084	14
Carolina HS 107	1,752,507	41,569	0	2,970,894	-13.7%	188,298	16
Woodmont MS 510	1,225,169	49,547	0	2,677,392	-25.5%	139,583	19
Duncan Chapel ES 141	1,276,460	41,087	0	2,480,720	+1.3%	95,486	26
Blue Ridge MS 082	1,244,144	35,610	0	2,287,873	-37.2%	135,110	17
Hillcrest MS 277	1,213,225	35,841	0	2,263,725	+53.1%	146,173	15
Northwest MS 303	1,156,022	33,838	2,977	2,150,791	+32.6%	109,362	20
MT Anderson 415	2,100,972	1,630	0	2,148,747	+34.7%	136,535	16
Hollis Academy ES 251	1,380,077	26,043	0	2,143,397	-6.5%	108,000	20
Northwood MS 386	1,117,478	33,269	0	2,092,592	-8.1%	127,131	16
League Academy MS 263	1,228,099	28,989	0	2,077,767	-6.3%	128,839	16
Greenville MS 205	1,336,689	24,536	0	2,055,839	-7.0%	127,117	16
Sara Collins ES 333	1,115,665	31,926	0	2,051,428	-30.4%	109,348	19
Mauldin MS 274	1,173,120	29,334	0	2,032,900	-10.6%	138,000	15
Ralph Chandler MS 403	1,088,480	31,508	0	2,011,979	+8.4%	109,754	18
Grove ES 308	902,700	36,994	0	1,986,994	-3.4%	98,528	20
Mauldin ES 279	1,154,333	27,842	0	1,970,382	-9.6%	111,609	18
Hughes Academy MS 240	1,349,314	21,119	0	1,968,312	-13.4%	134,370	15
Riverside MS 352	1,286,701	23,233	0	1,967,660	-12.4%	138,000	14
Bryson MS 072	1,221,060	24,657	0	1,943,757	-32.1%	120,398	16
Berea MS 062	1,211,609	21,764	0	1,849,512	-36.4%	119,572	15
Greer MS 123	1,175,343	22,640	0	1,838,921	-7.7%	137,250	13
Oakview ES 365	1,321,894	16,119	0	1,794,342	+8.8%	114,993	16
Sterling School 054	1,278,000	17,347	0	1,786,441	-7.9%	132,430	13
Plain ES 338	957,900	27,723	0	1,770,461	-21.8%	111,861	16
Lakeview MS 385	1,073,363	22,972	0	1,746,672	-9.2%	131,282	13
Thomas E. Kerns ES 203	1,026,059	24,070	0	1,731,551	+6.7%	97,259	18
Beck MS 056	1,027,714	23,789	0	1,724,970	-5.8%	134,458	13
Blythe Academy ES 086	958,502	25,851	0	1,716,195	-1.3%	117,000	15
Buena Vista ES 052	1,043,119	22,749	0	1,709,892	-15.3%	101,133	17
Bells Crossing ES 396	1,034,923	23,022	0	1,709,698	-20.1%	111,460	15
Ellen Woodside ES 168	926,170	26,124	0	1,691,864	+8.0%	94,015	18
Bryson ES 068	1,280,409	13,794	0	1,684,702	+34.6%	107,491	16

Greenville County Schools

Site Energy Use Comparison -- 07/2014 thru 06/2015

Site	Electricity (kWh)	Natural Gas (Therms)	Other Fossil (kWh)	Total Energy (kWh)	% Chg	SqFt	kWh/SqFt
Dr. Phinnize J. Fisher MS 275	1,328,400	12,035	0	1,681,146	N/A	178,710	9
East North Street ES 156	999,900	22,774	0	1,667,406	-7.6%	106,977	16
Mitchell Road ES 280	857,171	27,643	0	1,667,387	-22.4%	89,922	19
Tanglewood MS 444	1,040,980	21,223	0	1,663,026	-9.9%	114,689	15
Fountain Inn ES 186	972,860	23,174	0	1,652,093	-9.6%	112,712	15
Woodland ES 506	1,015,287	21,263	0	1,638,506	-13.2%	115,109	14
Slater-Marietta ES 406	883,895	25,728	0	1,637,983	-1.3%	88,286	19
Greenbrier ES 200	873,616	24,807	0	1,600,709	-14.0%	110,988	14
Lake Forest ES 254	945,835	22,323	0	1,600,122	-29.3%	98,165	16
Gateway ES 188	925,189	21,221	0	1,547,176	-4.1%	95,172	16
Chandler Creek ES 121	918,800	20,920	0	1,531,965	-10.0%	123,376	12
Sevier MS 389	904,973	20,177	0	1,496,361	-26.5%	111,272	13
Rudolph Gordon ES 020	796,085	22,609	0	1,458,746	-14.3%	95,377	15
Cherrydale ES 381	739,097	24,510	0	1,457,485	-3.0%	83,210	18
Paris ES 316	928,427	17,393	0	1,438,216	-13.6%	72,200	20
Pelham Road ES 336	698,236	25,058	0	1,432,686	+7.4%	98,200	15
Brushy Creek ES 096	783,157	21,853	0	1,423,668	-26.5%	97,300	15
Distribution Center 730	703,165	20,022	69,839	1,359,849	-1.2%	120,000	11
Taylor's ES 449	689,405	21,637	0	1,323,585	-30.0%	99,583	13
Armstrong ES 031	690,094	20,675	0	1,296,078	-21.3%	82,208	16
Brook Glenn ES 153	770,708	17,911	0	1,295,679	-12.1%	74,967	17
Monaview ES 286	732,774	19,159	0	1,294,324	-17.5%	92,519	14
Augusta Circle ES 045	720,542	19,164	0	1,282,239	+10.9%	76,000	17
Sue Cleveland ES 431	748,200	16,716	0	1,238,146	-8.4%	88,268	14
Westcliffe ES 479	620,612	20,954	0	1,234,774	+3.6%	63,944	19
Enoree CC 172	526,724	23,875	0	1,226,500	-19.7%	58,450	21
Crestview ES 115	1,024,443	5,816	0	1,194,910	-16.3%	83,370	14
AJ Whittenburg ES 478	779,100	14,024	0	1,190,143	N/A	89,490	13
Robert E. Cashion ES 151	667,804	17,565	0	1,182,634	+0.6%	97,695	12
Golden Strip CC 190	587,680	19,472	5,203	1,163,607	-10.6%	74,906	16
Mountain View ES 296	613,564	17,830	0	1,136,161	-19.6%	98,530	12
Welcome ES 475	781,083	12,067	0	1,134,767	-24.0%	93,050	12
Berea ES 061	973,952	5,354	0	1,130,878	+10.9%	84,661	13
Simpsonville ES 292	663,829	15,545	0	1,119,453	-7.7%	101,826	11
Warehouse Annex 730	411,780	23,848	0	1,110,765	N/A	60,000	19
Stone Academy ES 425	682,529	14,435	0	1,105,619	-0.6%	89,317	12
Fork Shoals ES 181	887,818	7,427	0	1,105,503	-13.3%	89,908	12
Heritage ES 135	737,867	12,332	0	1,099,318	-42.9%	85,310	13
Washington Center 501	600,772	16,406	0	1,081,632	-54.0%	62,596	17
Summit Drive ES 441	604,374	15,798	0	1,067,413	-15.8%	69,054	15
Skyland ES 401	833,951	7,829	0	1,063,416	-16.2%	90,570	12
Fine Arts Center 178	573,814	16,172	0	1,047,821	-25.5%	65,784	16
Monarch ES 402	703,200	11,735	0	1,047,153	N/A	110,850	9
J. Harley Bonds CC 218	761,763	9,588	0	1,042,787	-0.7%	131,790	8
Bethel ES 276	942,902	2,569	0	1,018,199	-28.6%	91,589	11

Greenville County Schools

Site Energy Use Comparison -- 07/2014 thru 06/2015

Site	Electricity (kWh)	Natural Gas (Therms)	Other Fossil (kWh)	Total Energy (kWh)	% Chg	SqFt	kWh/SqFt
Alexander ES 012	624,560	12,133	0	980,178	+3.2%	71,474	14
District Office 709	899,344	2,583	0	975,052	-7.5%	48,000	20
Donaldson CC 128	480,383	12,843	0	856,811	-19.2%	68,627	12
Tigerville ES 456	460,266	13,333	0	851,056	-16.4%	64,660	13
J. Harley Bonds CC 218 Detached	204,063	13,816	0	609,010	+5.2%	40,713	15
West Greenville School 950	328,428	9,097	0	595,061	-0.3%	37,333	16
Wade Hampton ES 471	227,248	11,441	0	562,584	-24.0%	29,000	19
Greenview CDC 202	404,080	5,223	0	557,166	-13.8%	46,000	12
Sullivan Center 435	461,157	0	0	461,157	+80.6%	46,970	10
Golden Strip CDC 822	243,106	6,991	0	448,024	-16.2%	23,325	19
Roper Mtn Sci Ctr 355 NaturalScience	426,856	0	0	426,856	+25.5%	20,992	20
Northwest Crescent CDC 058	260,258	4,790	0	400,653	-15.1%	24,093	17
Paul L. Dunbar CDC 464	280,680	3,232	0	375,410	-18.7%	27,187	14
Riley CDC 462	223,240	2,879	0	307,623	+0.5%	23,285	13
Roper Mtn Sci Ctr 355 Hall of Sci	272,599	0	0	272,599	+22.6%	28,800	9
Hillcrest HS 232 Detached	190,082	2,359	0	259,224	+72.1%	18,854	14
Roper Mtn Sci Ctr 355	148,242	0	99,368	247,610	-8.7%	3,562	70
Overbrook CDC 300	197,363	1,654	0	245,842	-27.9%	20,713	12
Berea HS 066 Detached	161,724	1,977	0	219,670	+31.9%	6,568	33
Blue Ridge HS 080 Detached	177,062	0	0	177,062	+8.6%	12,818	14
Donaldson Bus Office 453	142,449	992	0	171,525	N/A	4,390	39
Wade Hampton HS 476 Detached	168,030	0	0	168,030	+10.8%	4,308	39
JL Mann HS 269 Detached	164,907	0	0	164,907	-26.1%	9,378	18
Roper Mtn Sci Ctr 355 Planetarium	160,802	0	0	160,802	+66.0%	9,296	17
Eastside HS 161 Detached	94,689	2,120	0	156,826	+50.1%	14,356	11
Mauldin HS 273 Detached	149,619	0	0	149,619	-1.1%	8,412	18
Taylor Bus Center 446	87,890	1,908	0	143,813	+23.2%	4,357	33
Donaldson Bus Center 451	47,182	2,432	0	118,464	+1.5%	4,693	25
J. Harley Bonds CC 218 Portables	115,963	0	0	115,963	N/A	768	151
Greenville HS 210 Detached	102,538	0	0	102,538	-45.5%	3,544	29
Greer HS 214 Detached	101,320	0	0	101,320	+96.4%	12,498	8
Southside HS 414 Detached	100,903	0	0	100,903	+40.6%	680	148
Enoree CC 172 Portables	89,695	0	0	89,695	+4358.0%	3,120	29
Riverside HS 349 Detached	83,846	0	0	83,846	+79.9%	4,908	17
Roper Mtn Sci Ctr 355 Conference Ctr	64,788	0	0	64,788	+1.7%	10,800	6
Berea Bus Center 174	60,213	0	0	60,213	N/A	1,440	42
Roper Mtn Sci Ctr 355 Portables	55,608	0	0	55,608	+19.2%	3,611	15
Oakview ES 365 Portables	55,341	0	0	55,341	+85.1%	5,472	10
Golden Strip Support Office 904	48,347	0	0	48,347	+73.4%	4,000	12
Distribution Center 730 Detached	41,628	0	0	41,628	+20.4%	1,144	36
Golden Strip Bus Office 448	37,581	0	0	37,581	+2.1%	1,880	20
Bryson MS 072 Portables	33,926	0	0	33,926	-57.6%	7,920	4
Roper Mtn Sci Ctr 355 Amphitheatre	33,382	0	0	33,382	+57.2%	5,040	7
Beck MS 056 Portables	31,594	0	0	31,594	N/A	6,192	5
Roper Mtn Sci Ctr 355 Detached	29,974	0	0	29,974	-52.3%	2,056	15

Greenville County Schools

Site Energy Use Comparison -- 07/2014 thru 06/2015

Site	Electricity (kWh)	Natural Gas (Therms)	Other Fossil (kWh)	Total Energy (kWh)	% Chg	SqFt	kWh/SqFt
Welcome ES 475 Portables	29,586	0	0	29,586	N/A	768	39
Bethel ES 276 Portables	29,277	0	0	29,277	+311.4%	2,448	12
Fountain Inn ES 186 Portables	26,734	0	0	26,734	N/A		0
Golden Strip CC 190 Portables	19,274	0	0	19,274	N/A		0
Wade Hampton ES 471 Portables	16,674	0	0	16,674	-76.0%	3,264	5
Augusta Circle ES 045 Portables	15,793	0	0	15,793	N/A	1,440	11
Bells Crossing ES 396 Portables	15,194	0	0	15,194	-46.5%	5,772	3
Brook Glenn ES 153 Portables	10,848	0	0	10,848	N/A	1,440	8
Hillcrest HS 232 Portables	10,034	0	0	10,034	-59.0%	2,400	4
Mauldin MS 274 Portables	8,640	0	0	8,640	-48.1%	1,632	5
Donaldson CC 128 Portables	8,153	0	0	8,153	N/A	792	10
Mauldin HS 273 Portables	8,031	0	0	8,031	-16.5%	768	10
Blue Ridge MS 082 Detached	7,920	0	0	7,920	N/A	320	25
Woodland ES 506 Detached	7,381	0	0	7,381	N/A	240	31
Distribution Center 730 Portables	7,230	0	0	7,230	-51.4%	2,736	3
Golden Strip CC 190 Detached	3,510	0	0	3,510	-41.9%	2,112	2
Roper Mtn Sci Ctr 355 Observatory	2,745	0	0	2,745	-53.7%	1,256	2
Fork Shoals ES 181 Detached	1,832	0	0	1,832	N/A	4,664	0
Sullivan Center 435 Portables	1,227	0	0	1,227	-95.4%	5,424	0
Berea ES 061 Portables	1,031	0	0	1,031	+931.0%	768	1
Buena Vista ES 052 Detached	706	0	0	706	+17.9%	484	1
Overbrook CDC 300 Portables	568	0	0	568	-85.0%	768	1
Paul L. Dunbar CDC 464 Portables	391	0	0	391	+1529.2%	768	1
Fork Shoals ES 181 Portables	196	0	0	196	N/A	768	0
Golden Strip CDC 822 Portables	107	0	0	107	-97.3%	826	0
Mauldin ES 279 Portables		8	0		8 -99.9%	1,536	0
Northwest Crescent CDC 058 Portables		4	0		4 -99.9%	768	0
Lake Forest ES 254 Portables		0	0		0 N/A	1,536	N/A
Slater-Marietta ES 406 Portables		0	0		0 N/A	1,536	N/A
Grove ES 308 Portables		0	0		0 N/A	1,440	N/A
Greenville MS 205 Portables		0	0		0 N/A	2,592	N/A
Hillcrest MS 277 Portables		0	0		0 N/A	1,584	N/A
Greenbrier ES 200 Portables		0	0		0 N/A	2,160	N/A
Travelers Rest HS Detached		0	0		0 N/A	6,919	N/A
Crestview ES 115 Portables		0	0		0 N/A		0
Gateway ES 188 Portables		0	0		0 N/A	1,536	N/A
Blue Ridge HS 080 Portables		0	0		0 N/A	460	N/A
Lakeview MS 385 Portables		0	0		0 N/A	3,120	N/A
Woodland ES 506 Portables		0	0		0 N/A	4,944	N/A
Cherrydale ES 381 Portables		0	0		0 N/A		0
Buena Vista ES 052 Portables		0	0		0 N/A	1,536	N/A
Berea MS 062 Portables		0	0		0 N/A	4,608	N/A
Bryson ES 068 Portables		0	0		0 N/A	17,664	N/A
Company Totals:	113,589,923	2,416,606	209,571	184,630,221	-10.6%	12,437,412	15

FY 14-15 Facilities Ranking: Cost per SF

Greenville County Schools

Site Energy/SqFt Ranking -- 07/2014 thru 06/2015

Site	SqFt	Electricity (kWh)	Total Elec Cost	Cost/kWh	Total Elec Cost/SqFt	Natural Gas (Therms)	Natural Gas Cost	Cost/Therm	Natural Gas Cost/SqFt	Total Energy Cost/SqFt
J. Harley Bonds CC 218 Portables	768	115,963	\$19,417	\$0.167	\$25.28	0	\$0	N/A	N/A	\$25.28
Southside HS 414 Detached	680	100,903	\$16,821	\$0.167	\$24.74	0	\$0	N/A	N/A	\$24.74
Roper Mtn Sci Ctr 355	3,562	148,242	\$16,266	\$0.110	\$4.57	0	\$0	N/A	N/A	\$8.39
Wade Hampton HS 476 Detached	4,308	168,030	\$30,298	\$0.180	\$7.03	0	\$0	N/A	N/A	\$7.03
Blue Ridge MS 082 Detached	320	7,920	\$2,217	\$0.280	\$6.93	0	\$0	N/A	N/A	\$6.93
Greenville HS 210 Detached	3,544	102,538	\$21,375	\$0.208	\$6.03	0	\$0	N/A	N/A	\$6.03
Welcome ES 475 Portables	768	29,586	\$4,338	\$0.147	\$5.65	0	\$0	N/A	N/A	\$5.65
Woodland ES 506 Detached	240	7,381	\$1,185	\$0.161	\$4.94	0	\$0	N/A	N/A	\$4.94
Mauldin HS 273 Detached	8,412	149,619	\$40,761	\$0.272	\$4.85	0	\$0	N/A	N/A	\$4.85
Distribution Center 730 Detached	1,144	41,628	\$4,967	\$0.119	\$4.34	0	\$0	N/A	N/A	\$4.34
Enoree CC 172 Portables	3,120	89,695	\$13,461	\$0.150	\$4.31	0	\$0	N/A	N/A	\$4.31
Berea Bus Center 174	1,440	60,213	\$5,374	\$0.089	\$3.73	0	\$0	N/A	N/A	\$3.73
Golden Strip Bus Office 448	1,880	37,581	\$6,828	\$0.182	\$3.63	0	\$0	N/A	N/A	\$3.63
Berea HS 066 Detached	6,568	161,724	\$21,808	\$0.135	\$3.32	1,977	\$1,816	\$0.918	\$0.28	\$3.60
Riverside HS 349 Detached	4,908	83,846	\$16,270	\$0.194	\$3.32	0	\$0	N/A	N/A	\$3.32
Donaldson Bus Office 453	4,390	142,449	\$12,578	\$0.088	\$2.87	992	\$1,097	\$1.106	\$0.25	\$3.12
JL Mann HS 269 Detached	9,378	164,907	\$25,081	\$0.152	\$2.67	0	\$0	N/A	N/A	\$2.67
Taylors Bus Center 446	4,357	87,890	\$7,939	\$0.090	\$1.82	1,908	\$2,200	\$1.153	\$0.50	\$2.33
Bethel ES 276 Portables	2,448	29,277	\$5,631	\$0.192	\$2.30	0	\$0	N/A	N/A	\$2.30
Blue Ridge HS 080 Detached	12,818	177,062	\$29,122	\$0.164	\$2.27	0	\$0	N/A	N/A	\$2.27
Roper Mtn Sci Ctr 355 Portables	3,611	55,608	\$8,018	\$0.144	\$2.22	0	\$0	N/A	N/A	\$2.22
Roper Mtn Sci Ctr 355 Detached	2,056	29,974	\$4,531	\$0.151	\$2.20	0	\$0	N/A	N/A	\$2.20
Greer HS 214 Detached	12,498	101,320	\$25,171	\$0.248	\$2.01	0	\$0	N/A	N/A	\$2.01
Roper Mtn Sci Ctr 355 NaturalScience	20,992	426,856	\$40,198	\$0.094	\$1.91	0	\$0	N/A	N/A	\$1.91
District Office 709	48,000	899,344	\$87,120	\$0.097	\$1.82	2,583	\$2,404	\$0.931	\$0.05	\$1.87
Mauldin HS 273 Portables	768	8,031	\$1,408	\$0.175	\$1.83	0	\$0	N/A	N/A	\$1.83
Hillcrest HS 232 Detached	18,854	190,082	\$30,684	\$0.161	\$1.63	2,359	\$2,230	\$0.945	\$0.12	\$1.75
Donaldson Bus Center 451	4,693	47,182	\$5,697	\$0.121	\$1.21	2,432	\$2,216	\$0.911	\$0.47	\$1.69
Augusta Circle ES 045 Portables	1,440	15,793	\$2,374	\$0.150	\$1.65	0	\$0	N/A	N/A	\$1.65
Roper Mtn Sci Ctr 355 Planetarium	9,296	160,802	\$15,303	\$0.095	\$1.65	0	\$0	N/A	N/A	\$1.65
Donaldson CC 128 Portables	792	8,153	\$1,293	\$0.159	\$1.63	0	\$0	N/A	N/A	\$1.63
Golden Strip Support Office 904	4,000	48,347	\$6,440	\$0.133	\$1.61	0	\$0	N/A	N/A	\$1.61
Duncan Chapel ES 141	95,486	1,276,460	\$115,590	\$0.091	\$1.21	41,087	\$32,676	\$0.795	\$0.34	\$1.55
Crestview ES 115	83,370	1,024,443	\$120,990	\$0.118	\$1.45	5,816	\$6,202	\$1.066	\$0.07	\$1.53
Mauldin ES 279	111,609	1,154,333	\$139,855	\$0.121	\$1.25	27,842	\$22,505	\$0.808	\$0.20	\$1.45
Oakview ES 365	114,993	1,321,894	\$149,994	\$0.113	\$1.30	16,119	\$13,362	\$0.829	\$0.12	\$1.42
Paris ES 316	72,200	928,427	\$86,636	\$0.093	\$1.20	17,393	\$13,870	\$0.797	\$0.19	\$1.39
Golden Strip CDC 822	23,325	243,106	\$24,518	\$0.101	\$1.05	6,991	\$7,577	\$1.084	\$0.32	\$1.38
Paul L. Dunbar CDC 464	27,187	280,680	\$33,376	\$0.119	\$1.23	3,232	\$3,560	\$1.101	\$0.13	\$1.36
Riverside MS 352	138,000	1,286,701	\$163,185	\$0.127	\$1.18	23,233	\$24,037	\$1.035	\$0.17	\$1.36
Hollis Academy ES 251	108,000	1,380,077	\$122,039	\$0.088	\$1.13	26,043	\$20,442	\$0.785	\$0.19	\$1.32
Golden Strip CC 190	74,906	587,680	\$80,736	\$0.137	\$1.08	19,472	\$15,540	\$0.798	\$0.21	\$1.30
Oakview ES 365 Portables	5,472	55,341	\$7,073	\$0.128	\$1.29	0	\$0	N/A	N/A	\$1.29
Mauldin MS 274	138,000	1,173,120	\$152,233	\$0.130	\$1.10	29,334	\$23,671	\$0.807	\$0.17	\$1.27
Sara Collins ES 333	109,348	1,115,665	\$111,889	\$0.100	\$1.02	31,926	\$26,059	\$0.816	\$0.24	\$1.26
Woodland ES 506	115,109	1,015,287	\$122,772	\$0.121	\$1.07	21,263	\$22,007	\$1.035	\$0.19	\$1.26
Northwest Crescent CDC 058	24,093	260,258	\$26,097	\$0.100	\$1.08	4,790	\$4,037	\$0.843	\$0.17	\$1.25
Grove ES 308	98,528	902,700	\$92,102	\$0.102	\$0.93	36,994	\$30,421	\$0.822	\$0.31	\$1.24
Greer MS 123	137,250	1,175,343	\$145,202	\$0.124	\$1.06	22,640	\$23,444	\$1.035	\$0.17	\$1.23
Greenville HS 210	248,756	2,911,068	\$259,341	\$0.089	\$1.04	56,983	\$44,440	\$0.780	\$0.18	\$1.22

Greenville County Schools

Site Energy/SqFt Ranking -- 07/2014 thru 06/2015

Site	SqFt	Electricity (kWh)	Total Elec Cost	Cost/kWh	Total Elec Cost/SqFt	Natural Gas (Therms)	Natural Gas Cost	Cost/Therm	Natural Gas Cost/SqFt	Total Energy Cost/SqFt
Enoree CC 172	58,450	526,724	\$50,550	\$0.096	\$0.86	23,875	\$19,899	\$0.833	\$0.34	\$1.21
Northwest MS 303	109,362	1,156,022	\$105,247	\$0.091	\$0.96	33,838	\$25,065	\$0.741	\$0.23	\$1.19
Westcliffe ES 479	63,944	620,612	\$58,627	\$0.094	\$0.92	20,954	\$17,174	\$0.820	\$0.27	\$1.19
Mauldin HS 273	347,405	3,166,404	\$354,636	\$0.112	\$1.02	69,921	\$55,348	\$0.792	\$0.16	\$1.18
Gateway ES 188	95,172	925,189	\$94,667	\$0.102	\$0.99	21,221	\$17,361	\$0.818	\$0.18	\$1.18
Eastside HS 161 Detached	14,356	94,689	\$14,846	\$0.157	\$1.03	2,120	\$2,018	\$0.952	\$0.14	\$1.17
Mitchell Road ES 280	89,922	857,171	\$83,116	\$0.097	\$0.92	27,643	\$22,058	\$0.798	\$0.25	\$1.17
Augusta Circle ES 045	76,000	720,542	\$72,877	\$0.101	\$0.96	19,164	\$15,835	\$0.826	\$0.21	\$1.17
Brook Glenn ES 153	74,967	770,708	\$72,982	\$0.095	\$0.97	17,911	\$14,490	\$0.809	\$0.19	\$1.17
Slater-Marietta ES 406	88,286	883,895	\$82,012	\$0.093	\$0.93	25,728	\$20,923	\$0.813	\$0.24	\$1.17
Washington Center 501	62,596	600,772	\$60,248	\$0.100	\$0.96	16,406	\$12,517	\$0.763	\$0.20	\$1.16
Ellen Woodside ES 168	94,015	926,170	\$87,319	\$0.094	\$0.93	26,124	\$21,875	\$0.837	\$0.23	\$1.16
Bryson MS 072	120,398	1,221,060	\$118,610	\$0.097	\$0.99	24,657	\$21,166	\$0.858	\$0.18	\$1.16
Thomas E. Kerns ES 203	97,259	1,026,059	\$94,640	\$0.092	\$0.97	24,070	\$18,231	\$0.757	\$0.19	\$1.16
Buena Vista ES 052	101,133	1,043,119	\$99,205	\$0.095	\$0.98	22,749	\$17,954	\$0.789	\$0.18	\$1.16
Blue Ridge MS 082	135,110	1,244,144	\$119,601	\$0.096	\$0.89	35,610	\$36,728	\$1.031	\$0.27	\$1.16
League Academy MS 263	128,839	1,228,099	\$123,705	\$0.101	\$0.96	28,989	\$24,330	\$0.839	\$0.19	\$1.15
Ralph Chandler MS 403	109,754	1,088,480	\$100,529	\$0.092	\$0.92	31,508	\$25,080	\$0.796	\$0.23	\$1.14
Greenville MS 205	127,117	1,336,689	\$124,744	\$0.093	\$0.98	24,536	\$19,391	\$0.790	\$0.15	\$1.13
Blue Ridge HS 080	205,474	1,788,480	\$169,673	\$0.095	\$0.83	55,705	\$57,502	\$1.032	\$0.28	\$1.13
Bryson ES 068	107,491	1,280,409	\$105,909	\$0.083	\$0.99	13,794	\$14,992	\$1.087	\$0.14	\$1.12
MT Anderson 415	136,535	2,100,972	\$151,691	\$0.072	\$1.11	1,630	\$1,575	\$0.966	\$0.01	\$1.12
Riverside HS 349	286,332	2,238,914	\$255,514	\$0.114	\$0.89	61,910	\$63,623	\$1.028	\$0.22	\$1.11
Lake Forest ES 254	98,165	945,835	\$91,477	\$0.097	\$0.93	22,323	\$17,844	\$0.799	\$0.18	\$1.11
Chandler Creek ES 121	123,376	918,800	\$115,594	\$0.126	\$0.94	20,920	\$21,672	\$1.036	\$0.18	\$1.11
Wade Hampton ES 471	29,000	227,248	\$22,375	\$0.098	\$0.77	11,441	\$9,748	\$0.852	\$0.34	\$1.11
Berea ES 061	84,661	973,952	\$88,900	\$0.091	\$1.05	5,354	\$4,515	\$0.843	\$0.05	\$1.10
Sterling School 054	132,430	1,278,000	\$131,507	\$0.103	\$0.99	17,347	\$14,204	\$0.819	\$0.11	\$1.10
Woodmont MS 510	139,583	1,225,169	\$112,922	\$0.092	\$0.81	49,547	\$39,941	\$0.806	\$0.29	\$1.10
Overbrook CDC 300	20,713	197,363	\$21,084	\$0.107	\$1.02	1,654	\$1,589	\$0.960	\$0.08	\$1.09
Brook Glenn ES 153 Portables	1,440	10,848	\$1,576	\$0.145	\$1.09	0	\$0	N/A	N/A	\$1.09
Summit Drive ES 441	69,054	604,374	\$62,879	\$0.104	\$0.91	15,798	\$12,557	\$0.795	\$0.18	\$1.09
East North Street ES 156	106,977	999,900	\$98,991	\$0.099	\$0.93	22,774	\$17,763	\$0.780	\$0.17	\$1.09
West Greenville School 950	37,333	328,428	\$32,845	\$0.100	\$0.88	9,097	\$7,717	\$0.848	\$0.21	\$1.09
Berea MS 062	119,572	1,211,609	\$111,376	\$0.092	\$0.93	21,764	\$18,473	\$0.849	\$0.15	\$1.09
Hughes Academy MS 240	134,370	1,349,314	\$128,013	\$0.095	\$0.95	21,119	\$17,278	\$0.818	\$0.13	\$1.08
Rudolph Gordon ES 020	95,377	796,085	\$78,409	\$0.098	\$0.82	22,609	\$24,607	\$1.088	\$0.26	\$1.08
Fountain Inn ES 186	112,712	972,860	\$96,594	\$0.099	\$0.86	23,174	\$25,089	\$1.083	\$0.22	\$1.08
Cherrydale ES 381	83,210	739,097	\$71,442	\$0.097	\$0.86	24,510	\$18,372	\$0.750	\$0.22	\$1.08
Plain ES 338	111,861	957,900	\$96,918	\$0.101	\$0.87	27,723	\$22,931	\$0.827	\$0.20	\$1.07
Travelers Rest HS 466	234,768	2,111,144	\$203,805	\$0.097	\$0.87	57,881	\$46,393	\$0.802	\$0.20	\$1.07
Bells Crossing ES 396	111,460	1,034,923	\$97,864	\$0.095	\$0.88	23,022	\$19,958	\$0.867	\$0.18	\$1.06
Sullivan Center 435	46,970	461,157	\$49,546	\$0.107	\$1.05	0	\$0	N/A	N/A	\$1.05
Southside HS 414	203,341	2,001,413	\$180,420	\$0.090	\$0.89	43,300	\$33,728	\$0.779	\$0.17	\$1.05
Northwood MS 386	127,131	1,117,478	\$106,567	\$0.095	\$0.84	33,269	\$26,473	\$0.796	\$0.21	\$1.05
Bethel ES 276	91,589	942,902	\$93,235	\$0.099	\$1.02	2,569	\$2,361	\$0.919	\$0.03	\$1.04
Hillcrest MS 277	146,173	1,213,225	\$122,562	\$0.101	\$0.84	35,841	\$29,044	\$0.810	\$0.20	\$1.04
Fork Shoals ES 181	89,908	887,818	\$87,550	\$0.099	\$0.97	7,427	\$5,687	\$0.766	\$0.06	\$1.04
Greer HS 214	275,000	2,395,637	\$256,199	\$0.107	\$0.93	27,930	\$28,839	\$1.033	\$0.10	\$1.04
Blythe Academy ES 086	117,000	958,502	\$99,791	\$0.104	\$0.85	25,851	\$21,383	\$0.827	\$0.18	\$1.04

Greenville County Schools

Site Energy/SqFt Ranking -- 07/2014 thru 06/2015

Site	SqFt	Electricity (kWh)	Total Elec Cost	Cost/kWh	Total Elec Cost/SqFt	Natural Gas (Therms)	Natural Gas Cost	Cost/Therm	Natural Gas Cost/SqFt	Total Energy Cost/SqFt
Armstrong ES 031	82,208	690,094	\$67,661	\$0.098	\$0.82	20,675	\$17,078	\$0.826	\$0.21	\$1.03
Tanglewood MS 444	114,689	1,040,980	\$101,438	\$0.097	\$0.88	21,223	\$16,302	\$0.768	\$0.14	\$1.03
Woodmont HS 509	291,424	2,887,928	\$256,308	\$0.089	\$0.88	54,221	\$42,466	\$0.783	\$0.15	\$1.03
Fine Arts Center 178	65,784	573,814	\$53,659	\$0.094	\$0.82	16,172	\$13,487	\$0.834	\$0.21	\$1.02
AJ Whittenburg ES 478	89,490	779,100	\$78,875	\$0.101	\$0.88	14,024	\$11,692	\$0.834	\$0.13	\$1.01
Carolina HS 107	188,298	1,752,507	\$158,358	\$0.090	\$0.84	41,569	\$31,963	\$0.769	\$0.17	\$1.01
Alexander ES 012	71,474	624,560	\$62,511	\$0.100	\$0.87	12,133	\$9,649	\$0.795	\$0.14	\$1.01
Brushy Creek ES 096	97,300	783,157	\$77,495	\$0.099	\$0.80	21,853	\$20,488	\$0.938	\$0.21	\$1.01
Sue Cleveland ES 431	88,268	748,200	\$75,070	\$0.100	\$0.85	16,716	\$13,705	\$0.820	\$0.16	\$1.01
Riley CDC 462	23,285	223,240	\$20,906	\$0.094	\$0.90	2,879	\$2,495	\$0.867	\$0.11	\$1.00
Greenville CDC 202	46,000	404,080	\$40,635	\$0.101	\$0.88	5,223	\$4,392	\$0.841	\$0.10	\$0.98
Wade Hampton HS 476	244,946	2,283,802	\$210,553	\$0.092	\$0.86	35,000	\$28,944	\$0.827	\$0.12	\$0.98
Heritage ES 135	85,310	737,867	\$73,006	\$0.099	\$0.86	12,332	\$9,795	\$0.794	\$0.11	\$0.97
Monaview ES 286	92,519	732,774	\$73,716	\$0.101	\$0.80	19,159	\$15,862	\$0.828	\$0.17	\$0.97
Roper Mtn Sci Ctr 355 Hall of Sci	28,800	272,599	\$27,638	\$0.101	\$0.96	0	\$0	N/A	N/A	\$0.96
Skyland ES 401	90,570	833,951	\$81,115	\$0.097	\$0.90	7,829	\$5,724	\$0.731	\$0.06	\$0.96
Greenbrier ES 200	110,988	873,616	\$86,125	\$0.099	\$0.78	24,807	\$19,562	\$0.789	\$0.18	\$0.95
Berea HS 066	218,084	1,912,918	\$175,136	\$0.092	\$0.80	40,227	\$32,295	\$0.803	\$0.15	\$0.95
J. Harley Bonds CC 218 Detached	40,713	204,063	\$23,640	\$0.116	\$0.58	13,816	\$14,647	\$1.060	\$0.36	\$0.94
Tigerville ES 456	64,660	460,266	\$46,523	\$0.101	\$0.72	13,333	\$13,902	\$1.043	\$0.22	\$0.93
Monarch ES 402	110,850	703,200	\$92,332	\$0.131	\$0.83	11,735	\$10,591	\$0.902	\$0.10	\$0.93
Beck MS 056	134,458	1,027,714	\$104,923	\$0.102	\$0.78	23,789	\$19,737	\$0.830	\$0.15	\$0.93
Stone Academy ES 425	89,317	682,529	\$70,108	\$0.103	\$0.78	14,435	\$11,968	\$0.829	\$0.13	\$0.92
Sevier MS 389	111,272	904,973	\$85,497	\$0.094	\$0.77	20,177	\$16,699	\$0.828	\$0.15	\$0.92
Eastside HS 161	236,987	1,980,472	\$181,986	\$0.092	\$0.77	44,291	\$35,295	\$0.797	\$0.15	\$0.92
Pelham Road ES 336	98,200	698,236	\$69,240	\$0.099	\$0.71	25,058	\$20,175	\$0.805	\$0.21	\$0.91
Lakeview MS 385	131,282	1,073,363	\$100,519	\$0.094	\$0.77	22,972	\$18,685	\$0.813	\$0.14	\$0.91
Welcome ES 475	93,050	781,083	\$74,904	\$0.096	\$0.80	12,067	\$9,478	\$0.785	\$0.10	\$0.91
Hillcrest HS 232	319,983	2,547,016	\$238,224	\$0.094	\$0.74	50,927	\$40,651	\$0.798	\$0.13	\$0.87
Taylor ES 449	99,583	689,405	\$68,180	\$0.099	\$0.68	21,637	\$17,453	\$0.807	\$0.18	\$0.86
Roper Mtn Sci Ctr 355 Amphitheatre	5,040	33,382	\$4,310	\$0.129	\$0.86	0	\$0	N/A	N/A	\$0.86
Warehouse Annex 730	60,000	411,780	\$30,220	\$0.073	\$0.50	23,848	\$20,331	\$0.853	\$0.34	\$0.84
Robert E. Cashion ES 151	97,695	667,804	\$67,122	\$0.101	\$0.69	17,565	\$14,085	\$0.802	\$0.14	\$0.83
Donaldson CC 128	68,627	480,383	\$46,559	\$0.097	\$0.68	12,843	\$10,319	\$0.803	\$0.15	\$0.83
Simpsonville ES 292	101,826	663,829	\$71,264	\$0.107	\$0.70	15,545	\$12,976	\$0.835	\$0.13	\$0.83
Mountain View ES 296	98,530	613,564	\$62,582	\$0.102	\$0.64	17,830	\$18,498	\$1.037	\$0.19	\$0.82
Mauldin MS 274 Portables	1,632	8,640	\$1,313	\$0.152	\$0.80	0	\$0	N/A	N/A	\$0.80
Hillcrest HS 232 Portables	2,400	10,034	\$1,918	\$0.191	\$0.80	0	\$0	N/A	N/A	\$0.80
Beck MS 056 Portables	6,192	31,594	\$4,883	\$0.155	\$0.79	0	\$0	N/A	N/A	\$0.79
Distribution Center 730	120,000	703,165	\$67,202	\$0.096	\$0.56	20,022	\$16,750	\$0.837	\$0.14	\$0.79
JL Mann HS 269	302,133	2,075,100	\$194,167	\$0.094	\$0.64	39,335	\$32,223	\$0.819	\$0.11	\$0.75
Dr. Phinnize J. Fisher MS 275	178,710	1,328,400	\$124,721	\$0.094	\$0.70	12,035	\$9,173	\$0.762	\$0.05	\$0.75
Wade Hampton ES 471 Portables	3,264	16,674	\$2,346	\$0.141	\$0.72	0	\$0	N/A	N/A	\$0.72
J. Harley Bonds CC 218	131,790	761,763	\$81,724	\$0.107	\$0.62	9,588	\$10,526	\$1.098	\$0.08	\$0.70
Roper Mtn Sci Ctr 355 Conference Ctr	10,800	64,788	\$7,412	\$0.114	\$0.69	0	\$0	N/A	N/A	\$0.69
Bryson MS 072 Portables	7,920	33,926	\$5,046	\$0.149	\$0.64	0	\$0	N/A	N/A	\$0.64
Buena Vista ES 052 Detached	484	706	\$223	\$0.316	\$0.46	0	\$0	N/A	N/A	\$0.46
Bells Crossing ES 396 Portables	5,772	15,194	\$2,418	\$0.159	\$0.42	0	\$0	N/A	N/A	\$0.42
Roper Mtn Sci Ctr 355 Observatory	1,256	2,745	\$521	\$0.190	\$0.41	0	\$0	N/A	N/A	\$0.41
Distribution Center 730 Portables	2,736	7,230	\$1,087	\$0.150	\$0.40	0	\$0	N/A	N/A	\$0.40

Greenville County Schools

Site Energy/SqFt Ranking -- 07/2014 thru 06/2015

Site	SqFt	Electricity (kWh)	Total Elec Cost	Cost/kWh	Total Elec Cost/SqFt	Natural Gas (Therms)	Natural Gas Cost	Cost/Therm	Natural Gas Cost/SqFt	Total Energy Cost/SqFt
Berea ES 061 Portables	768	1,031	\$305	\$0.295	\$0.40	0	\$0	N/A	N/A	\$0.40
Golden Strip CC 190 Detached	2,112	3,510	\$725	\$0.207	\$0.34	0	\$0	N/A	N/A	\$0.34
Overbrook CDC 300 Portables	768	568	\$218	\$0.383	\$0.28	0	\$0	N/A	N/A	\$0.28
Paul L. Dunbar CDC 464 Portables	768	391	\$190	\$0.487	\$0.25	0	\$0	N/A	N/A	\$0.25
Northwest Crescent CDC 058 Portables	768		4 \$144	\$35.898	\$0.19	0	\$0	N/A	N/A	\$0.19
Golden Strip CDC 822 Portables	826	107	\$146	\$1.368	\$0.18	0	\$0	N/A	N/A	\$0.18
Sullivan Center 435 Portables	5,424	1,227	\$853	\$0.695	\$0.16	0	\$0	N/A	N/A	\$0.16
Fork Shoals ES 181 Portables	768	196	\$115	\$0.585	\$0.15	0	\$0	N/A	N/A	\$0.15
Mauldin ES 279 Portables	1,536		8 \$170	\$21.274	\$0.11	0	\$0	N/A	N/A	\$0.11
Fork Shoals ES 181 Detached	4,664	1,832	\$372	\$0.203	\$0.08	0	\$0	N/A	N/A	\$0.08
Lake Forest ES 254 Portables	1,536		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Golden Strip CC 190 Portables	0	19,274	\$2,485	\$0.129	N/A	0	\$0	N/A	N/A	N/A
Woodland ES 506 Portables	4,944		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Greenbrier ES 200 Portables	2,160		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Greenville MS 205 Portables	2,592		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Bakers Chapel ES 050	0	12,659	\$1,586	\$0.125	N/A	0	\$0	N/A	N/A	N/A
Gateway ES 188 Portables	1,536		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Berea MS 062 Portables	4,608		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Travelers Rest HS Detached	6,919		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Lakeview MS 385 Portables	3,120		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Crestview ES 115 Portables	0		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Blue Ridge HS 080 Portables	460		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Hillcrest MS 277 Portables	1,584		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Slater-Marietta ES 406 Portables	1,536		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Bryson ES 068 Portables	17,664		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Buena Vista ES 052 Portables	1,536		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Grove ES 308 Portables	1,440		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Cherrydale ES 381 Portables	0		0	\$0	N/A	0	\$0	N/A	N/A	N/A
Fountain Inn ES 186 Portables	0	26,734	\$5,294	\$0.198	N/A	0	\$0	N/A	N/A	N/A
Company Totals:	12,437,412	113,602,582	\$11,410,912	\$0.100	\$0.92	2,416,606	\$2,049,172	\$0.848	\$0.16	\$1.08