ANNUAL REPORT 2018

Annual Report on the Implementation of State Government Energy Conservation



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December 2018

Contact:

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South Carolina Office of Regulatory Staff

Energy Office

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ENERGY.SC.G@V

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Background

The South Carolina Energy Efficiency Act of 1992 (Act) established the State Energy Office (Energy Office), originally within the Governor's Office, in order to address energy issues in a consistent and professional manner. The Energy Office carries out the state policy and program mandates of this Act and administers the State Energy Program funded by the United States Department of Energy. The mission of the Energy Office is to increase energy efficiency, enhance environmental quality, and save energy dollars for South Carolina.

Per the South Carolina Restructuring Act of 2014, the Energy Office is now housed within the Office of Regulatory Staff (ORS). This reorganization has not altered the legislatively mandated duties of the Energy Office.

Section 48-52-620 of the South Carolina Code of Laws requires affected state agencies, public school districts, and public colleges and universities (public entities) to develop energy conservation plans and work to reduce their energy consumption by 20 percent by 2020, as compared to 2000 levels. These public entities are required to submit annual energy conservation reports to the Energy Office. The reports consist of data showing energy cost and use per square foot (energy intensity) and a narrative that outlines actions taken to implement the public entity's energy conservation plan. It also chronicles progress made in achieving the entity's energy-use goals (see Section III for more detail). Section 48-52-620(E) requires the Energy Office to compile this information and report it to the General Assembly by December 31 of each year.

To ensure the development of a fair and equitable methodology for implementing this legislative requirement, the Energy Office established an advisory group in 2008. The group consisted of representatives from a variety of state agencies, school districts, and public colleges and universities – all of which were affected by the new legislative mandate. The composition of this group reflected the diversity of public entities affected by this legislation, both in size and type of institution.

Based on the advisory group's suggestions, the Energy Office offered four energy-plan development workshops around the state. A total of 147 people participated in these workshops; participants represented 20 state agencies, 49 school districts, and 17 public colleges and universities. After concluding the workshops, Energy Office staff developed a sample energy conservation plan template that was provided to all public entities and remains available on the Energy Office website.

Activities in Support of Implementation

Section 48-52-620(E) requires the Energy Office to provide the technical assistance necessary for state agencies and school districts to satisfy the requirements of the law. In addition to the energy plan development workshops noted above, the Energy Office has provided the following:

Training

In 2009, the Energy Office and the Association of South Carolina Energy Managers created a state-specific alternative to the national Certified Energy Manager© training. While the South Carolina Accredited Commercial Energy Manager (ACEM) program has provided hands-on training to a broad range of participants, its primary purpose is to educate facility and energy managers as they work to reduce energy consumption in support of the legislative requirements. The course teaches participants to identify projects that can reduce their energy consumption and how to calculate their projected energy savings.

Since 2009, a total of 18 ACEM training classes have been held, one of which occurred during FY 2019. A total of 309 individuals have received this extensive energy-management training. The pass rate for the course averages approximately 81 percent, with those passing the test receiving ACEM certification.

Assistance to Agencies

The Energy Office staff works with public entities requesting assistance with their energy-use reporting requirements and often devotes considerable effort to identifying and correcting reporting errors. The Energy Office invites public entities to report using the mechanism most convenient for them, which can range from elaborate facility and energy management software to a simple reporting spreadsheet developed by the Energy Office in an Excel format. To improve tracking and reporting, assistance is available to help public entities import their data into Portfolio Manager, a free online tool offered by the U.S. Environmental Protection Agency. The program not only helps with long-term benchmarking but also allows users to apply for ENERGY STAR® designations for individual buildings.

The Energy Office, through its Energy Technical Assistance Program, provides free energy assessments to units of state and local government as well as other entities. These walk-through assessments help to identify cost-effective energy conservation measures and set priorities for action.

See Technical Assistance at <u>www.ENERGY.SC.GOV/Public</u>

ConserFund

Funding assistance for energy-efficiency improvements is available through the ConserFund and ConserFund Plus low-interest loan programs. The loans are available to state agencies, public colleges or universities, school districts, local governments, and private non-profit organizations with a fixed annual interest rate currently set at 1.5 percent. ConserFund is structured so that the cost savings resulting from the energy-efficiency upgrades can be used to repay the loan. ConserFund Plus, a recently initiated program, offers funding as 70 percent loan and 30 percent grant and is only available to state agencies, public colleges and universities, and public K-12 schools.

Energy Performance Contracting

Energy Performance Contracts (EPCs) are another way for agencies and schools to fund energy-efficiency improvements. EPCs are turnkey services provided by an Energy Services Company (ESCO). The ESCO identifies a set of energy-saving opportunities and recommends a package of improvements to be paid for through energy savings. These savings are guaranteed, thus requiring the ESCO to pay the difference if the savings do not materialize.

The Energy Office has conducted three workshops (in December of 2012, February of 2013, and May of 2016) to familiarize government entities with energy performance contracting. Approximately 75 representatives from ESCOs and public agencies attended each of the meetings.



Milestone Recognition Awards

The Energy Office provides tangible recognition for those public entities that have met their mandated 20 percent reduction in energy intensity since the year 2000.



Lee County School District



Kershaw County School District



Medical University of South Carolina



Union County School District



Trident Technical College

The agencies listed below have received Energy Reduction Milestone Achievement Awards to acknowledge meeting the 20 percent energy intensity reduction goal. (Note that recognition does not ensure that an agency's energy use will not rise at some point in the future.)

Aiken Technical College Barnwell County School District 29 Barnwell County School District 45 Beaufort County School District Chesterfield County School District Clarendon County School District 1 **Clover School District** Coastal Carolina University Colleton County School District College of Charleston Darlington County School District Florence County School District 1 Florence-Darlington Technical College Fort Mill School District Francis Marion University Georgetown County School District Greenville County School District Greenville Technical College Greenwood County School District 50 Greenwood County School District 51 Horry County Schools Kershaw County School District Lancaster County School District Laurens County School District 55 Lee County School District Medical University of South Carolina The Military Department Newberry County School District Northeastern Technical College Orangeburg Calhoun Technical College Patriots Point Development Authority Pickens County School District

Piedmont Technical College Richland County School District 1 Rock Hill School District 3 SC Department of Corrections SC Department of Disabilities & Special Needs SC Department of Employment and Workforce SC Department of Health & Environmental Control SC Department of Mental Health SC Department of Natural Resources SC Department of Parks, Recreation & Tourism SC Department of Public Safety SC Department of Transportation SC Division of General Services SC FTV SC Forestry Commission SC Law Enforcement Division SC Sea Grant Consortium Spartanburg Community College Spartanburg County School District 4 Spartanburg County School District 5 Sumter County School District The Citadel Tri-County Technical College Trident Technical College Union County School District USC Aiken USC Columbia **USC** Upstate Williamsburg County School District Williamsburg Technical College Winthrop University York County School District 1

Submission of Annual Progress Reports

During 2018, public entities were required to complete the following five sections of the report:

Section 1: Energy Conservation Measures

This section requires an inventory of energy conservation measures implemented during the year, including any measured or projected energy savings.

Section 2: Energy Consumption Data

In this section, overall energy consumption data is reported, either through a web-based reporting tool or a spreadsheet provided by the Energy Office.

Section 3: Purchase of Energy Conservation Products

This section requests a confirmation that all purchased energy conservation products have been certified and/or approved by the Energy Office, as per § 48-52-640.

Section 4: Additional Questions

This section solicits information about organizations' interest in obtaining technical assistance from the Energy Office or in receiving the Energy Connection newsletter Additional information is requested on any installed photovoltaic systems.

Section 5: Energy Plan Update and Success Stories

This section requests that organizations send a current copy of their energy conservation plans to the Energy Office if they have made significant changes since 2009. If no major revisions occurred, agencies are asked to provide an update on progress toward achieving the goals outlined in their plans, including both successes and barriers faced. Ninety-two percent of the public entities submitted complete reports by the deadline. Six percent did not submit a report. The remainder submitted incomplete reports.

Public Entities by Type ¹	Total Number of Entities	Complete	% Complete	Partially Complete	% Partially Complete	Non- Submitting	% Non- Submitting
State Agencies	33	30	91%	2	6%	1	3%
Residential Colleges and Universities ²	12	11	92%	1	8%	0	0%
Non-Residential Colleges and Universities	21	21	10%	0	0%	0	0%
School Districts	81	73	90%	0	0%	8	10%
Totals	147	135	92%	3	2%	9	6%

A list of non-submitting entities is included in Appendix A. Energy Office staff continues to provide assistance to public entities upon request.

A sample of completed Annual Progress Reports is provided in Appendix B. These reports are included to illustrate the range of energy conservation and efficiency activities used by many public entities. This appendix includes a sampling of complete reports and is not intended to imply Energy Office endorsement of the reports included in the sampling over those not included.

¹ For reporting purposes, public entities were separated into peer groups that most closely mirrored their energy consumption and energy expenditure levels. These group types are as follows: state agencies, residential colleges and universities, non-residential colleges and universities, and school districts.

² The Medical University of South Carolina is included in the Residential Colleges and Universities organization type for this report as its energy consumption levels are most similar to this peer group.

Progress toward Energy Conservation Goals

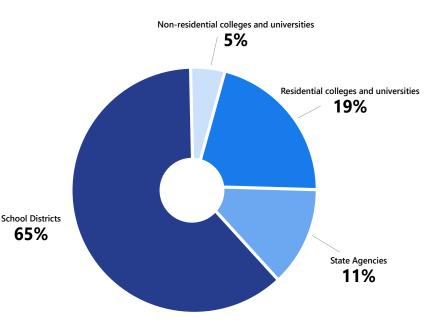
The General Assembly requires public entities to work toward meeting specific goals in reducing their energy intensity (defined as total site energy consumption measured in kBTU per gross square foot). The Energy Office has collected data on energy consumption, energy spending, and building square footage from public entities on an annual basis for more than 20 years. This data can be used as a basis for estimating the progress made by public entities toward meeting required energy goals. However, this data is accepted as received, and the Energy Office can make no representation regarding accuracy. In addition, some entities did not submit reports to the Energy Office, which introduces a potential source of bias. Additional inconsistencies have been introduced because the 2008 legislation exempted buildings constructed under the Energy Independence and Sustainable Construction Act of 2007 as well as buildings not in existence in both 2000 and 2008. However, many agencies and schools report on all their buildings together and plan for all their buildings that are not necessarily used to determine whether an agency has met its 20 percent reduction goal. Given these considerations, the statistics reported in this section should be interpreted with caution.

For reporting trends, public entities were separated into peer groups that most closely mirrored their energy consumption and energy expenditure levels. These group types are as follows: state agencies, residential colleges and universities, non-residential colleges and universities, and school districts. The Medical University of South Carolina is included in the residential colleges and universities organization type for this report as its energy consumption levels

are most similar to this peer group. Individual reports for each reporting entity are available upon request.

In FY 2018, school districts accounted for the largest share of square footage by type of public entity (65 percent). The next largest category (19 percent) was residential colleges and universities. State agencies (11 percent) and non-residential

Square Footage by Public Entity Type FY 2017



colleges and universities (5 percent) accounted for the smallest categories of reporting entities.

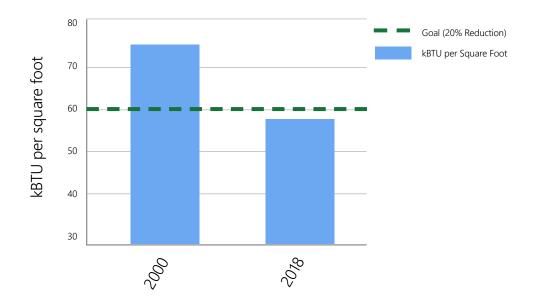
Data submitted for the most recent fiscal year (FY 2018) indicate that public entities reduced their energy intensity by 21 percent compared to the FY 2000 baseline. School districts – the least energy-intensive category of public entities – reported improvements of 17 percent. Residential colleges – the most energy-intensive category – reported improvements of 22 percent.

Overall, reporting entities were able to reduce their energy use per square foot by approximately 21 percent between 2000 and 2018 (as reported and adjusted for inflation), but energy spending per square foot saw a 3% increase from 2000 levels. This differential indicates that the reporting entities' efforts to control energy use are paying off; without those efforts, rising energy costs are likely to have a very significant effect on agency budgets.

Public Entities by Type	Average Energy Use per Square Foot (site kBTU)			Average Energy Spending per Square Foot (\$)			
	FY 2000	FY 2018	% change	FY 2000 ¹	FY 2018	% change	
State Agencies	113	89.53	-21%	\$2.01	\$2.11	5%	
Residential Colleges and Universities	143	112.20	-22%	\$1.88	\$2.11	12%	
Non-Residential Colleges and Universities	80	64.42	-19%	\$1.67	\$1.68	0%	
School Districts	45	37.14	-17%	\$1.20	\$1.19	-1.0%	
Overall	74	58.43	-21%	\$1.45	\$1.49	3%	

Note: These statistics are based on self-reported data submitted by public entities. The Energy Office makes no representation regarding the accuracy of these data.

1 These figures have been adjusted for inflation using the Bureau of Labor Statistics of the U.S. Department of Labor Consumer Price Index-Urban, (available at data.bls.gov). Therefore, the figures here are presented in 2018 dollars.



In aggregate, public entities have reported significant improvements in energy intensity compared to the FY 2000 baseline.

Public Entities Energy Usage			
Year	kBTU per ft²		
2000	75		
2018	58		

The 20% reduction goal has been met when the kBTU/ft² value is less than or equal to 60.

These statistics are based on data submitted by public entities. The Energy Office makes no representation regarding the accuracy of these data.

Based on the information submitted to the Energy Office, public entities collectively have achieved the 20 percent goal set by the General Assembly. Energy savings are being realized, and FY 2018 will provide an opportunity for public entities to continue to reduce their energy consumption. The Energy Office is only able to report on the data submitted by public entities. Partially complete or missing data also affect the savings metrics and can lead to difficulty in year-by-year comparisons of energy use.

Conclusion

The Energy Office continues to provide training, technical assistance, and funding to public entities in support of their efforts to achieve energy-conservation goals. In addition, the Energy Office has identified agencies that appear to be having difficulty meeting the goals and is prepared to conduct energy audits, if those agencies are interested. Overall, the state's agencies and public schools have done an excellent job of reducing energy use, even as energy costs increase. As a group, they have achieved the mandated goal. The Energy Office continues to work with individual agencies to help them achieve the mandated goal as well.





At the time this annual report was written, the following entities had not submitted any reports:

SC Department of Corrections	
Anderson School District 1	
Clarendon School District 3	
Darlington School District	
Dorchester School District 4	
Florence School District 4	
Lander University	
Lexington School District 4	
Sumter School District	

APPENDIX B:

Sample Progress Reports

Disclaimer: The reports in this section are re-printed as submitted to the Energy Office by the reporting entities and are meant to illustrate the programs undertaken in FY 2018. Errors contained in this section are not the responsibility of the Energy Office and the reports have not been altered or corrected.

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Organization Name:

Anderson School District Five

Person(s) Filing Report (name, phone number, email):

Dennis Kent, Director/Campus Enhancement Services, (864-260-5080), denniskent@anderson5.net

Please complete this report and return it to Conn Fraser at the Office of Regulatory Staff, Energy Office (cfraser@regstaff.sc.gov) no later than September 15, 2018. Completion of Section II requires the submission of energy consumption data, as described below. You may use the attached reporting tool or the format you normally use to track your energy use.

This report will allow the Energy Office to verify your compliance with the State Government Energy Conservation Act (§48-52-610 through 680 and §48-52-910, Code of Laws of South Carolina). In addition, the energy consumption data you provide will be made available to assist in statewide energy planning efforts. Please ensure that your submission is as complete and accurate as possible. If you need additional space, please attach pages or documents as necessary. If you have questions, please contact Conn Fraser at 803-737-5229 or <u>cfraser@regstaff.sc.gov</u>.

Section I: Energy Conservation Measures

§48-52-820 requires entities to report activities undertaken to implement their Energy Conservation Plan. For this section, please list each energy conservation measure that you implemented in FY18. For each measure, please include the following:

- *I.* A description of the energy conservation measure implemented including an estimate of square footage affected.
- 2. The estimated and/or observed annual energy savings (if available) and estimation method (if applicable.).

If you implemented no energy conservation measures in FY18, simply write "None."

Anderson School District Five has been under an energy management contract with Cenergistic, Inc. since July of 2014. The estimated square footage affected is 3,042,415.

Savings will be realized by changing behavior, such as, cutting off all electronics when not in use, setting temperature ranges and run time for heating, ventilation and air conditioning and other controlled equipment.

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Section II: Energy Consumption Data

To verify progress made toward state energy conservation goals and to assist in statewide energy planning efforts, please provide your complete energy consumption data for FY18 (including all sources of energy used in your buildings) in a format described below:

- If you use energy accounting software, please submit a file containing data showing <u>energy consumption</u>, <u>energy cost</u>, and <u>gross square footage</u> in FY18:
 - As totals for your organization
 - o If available, for each meter and/or each building in your organization
- If you do not currently use any energy accounting software:
 - You may want to consider using Portfolio Manager, the free, web-based energy accounting system provided by ENERGY STAR. To access Portfolio Manager, please click <u>here</u>. If you would like more assistance with entering your data into Portfolio Manager, please email <u>cfraser@regstaff.sc.gov</u>.
 - You may choose to complete and submit the file entitled "SCEO Consumption Reporting Tool", which can be downloaded from our website (please click <u>here</u>).
 - o Otherwise please submit data using Excel.

Section III: Purchase of Energy Conservation Products

§48-52-640 mandates that all state agencies "shall submit a disclaimer statement to the State Energy Office with [their] annual report stating that [they] did not purchase an energy conservation product that had not been certified by the State Energy Office." The Energy Office has posted a list of pre-certified and/or approved energy conservation products/measures on our website (please click <u>here</u>). For any products/measures not listed here, agencies should contact Conn Fraser at <u>cfraser@regstaff.sc.gov</u> or by telephone at 803-737-5229.

Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	DK

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Section IV: Additional Questions

Your answers to these questions help the Energy Office tailor outreach and activities to address the needs of your organizations, thank you for your feedback!

- Are you interested in a free walk-through energy assessment performed by a member of the Energy Office's Technical Assistance team? OY or ON
- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility ______
 - Capacity (kWAC) ______
 - Interconnected utility ______

Section V: Energy Plan Update & Success Stories

Energy Plan Updates

- A. You submitted an Energy Conservation Plan, required by law, to the Energy Office in 2009; if you have significantly revised your Plan please send a copy for our files to cfraser@regstaff.sc.gov.
- B. If you have not made significant revisions to your Plan, but have only refined it, please provide a brief write-up addressing any changes that may have occurred since submission of your Plan in 2009. Please include energy team training and education. In addition, please let us know about any successes deserving mention, or barriers to improvement that you have faced. We want to publicize your successes and assist with obstacles where we can.

Anderson School District Five has been under an energy management contract with Cenergistic, Inc. since 2014. Cenergistic monitors all our energy consumption conducting route audits of all facilities and communicates findings to the district.

Revised 7/30/2018

FY18 Annual Progress Report To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Organization Name:

South Carolina Department of Public Safety

Person(s) Filing Report (name, phone number, email):

Glenn Ashe Jr., Facility Manager / 803-608-5905 / bgashe@scdps.gov

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- 1. A description of the energy conservation measure implemented including an estimate of square footage affected.
- 2. The estimated and/or observed annual energy savings (if available) and estimation method (if applicable.).

If you implemented no energy conservation measures in FY18, simply write "None."

Upgraded assorted lighting areas to LED, included bollard lights along the walkway. We will order the Led changeover lights for the cafeteria. We have converted the lights in the food serving and eating area to LED. HVAC units at Blythewood DMV and DPS buildings have and will be readjusted to accommodate needs for heating and cooling while being cycled on and off to lower monthly electric bill. Headquarters Boiler system was shut down in July. All water pumps to outside storage tank were closed manually and all pumps were shut down for summer months.

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Section II: Energy Consumption Data

To verify progress made toward state energy conservation goals and to assist in statewide energy planning efforts, please provide your complete energy consumption data for FY18 (including all sources of energy used in your buildings) in a format described below:

- If you use energy accounting software, please submit a file containing data showing <u>energy consumption</u>, <u>energy cost</u>, and <u>gross square footage</u> in FY18:
 - As <u>totals</u> for your organization
 - If available, for each <u>meter</u> and/or each <u>building</u> in your organization
- If you do not currently use any energy accounting software:
 - You may want to consider using Portfolio Manager, the free, web-based energy accounting system provided by ENERGY STAR. To access Portfolio Manager, please click <u>here</u>. If you would like more assistance with entering your data into Portfolio Manager, please email <u>cfraser@regstaff.sc.gov</u>.
 - You may choose to complete and submit the file entitled "SCEO Consumption Reporting Tool", which can be downloaded from our website (please click <u>here</u>).
 - Otherwise please submit data using Excel.

Section III: Purchase of Energy Conservation Products

§48-52-640 mandates that all state agencies "shall submit a disclaimer statement to the State Energy Office with [their] annual report stating that [they] did not purchase an energy conservation product that had not been certified by the State Energy Office." The Energy Office has posted a list of pre-certified and/or approved energy conservation products/measures on our website (please click <u>here</u>). For any products/measures not listed here, agencies should contact Conn Fraser at <u>cfraser@regstaff.sc.gov</u> or by telephone at 803-737-5229.

Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	BGA

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- Are you interested in a free walk-through energy assessment performed by a member of the Energy Office's Technical Assistance team? OY or ON
- If you would like to subscribe to the South Carolina Energy Office newsletter <u>The</u> <u>Energy Connection</u> please write the preferred e-mail: <u>bgashe@scdps.gov</u>
- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility_____

 - Interconnected utility ______

Section V: Energy Plan Update & Success Stories

Energy Plan Updates

- A. You submitted an Energy Conservation Plan, required by law, to the Energy Office in 2009; if you have significantly revised your Plan please send a copy for our files to cfraser@regstaff.sc.gov.
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I am currently working with a State Vendor on upgrading outside lighting at our Headquarters location to LED. We have been gradually upgrading interior lighting to LED.

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Organization Name:

Technical College of the Lowcountry

Person(s) Filing Report (name, phone number, email):

Kelly Taylor, 843-525-8249, ktaylor@tcl.edu

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If you implemented no energy conservation measures in FY18, simply write "None."

Converted 9 interior lights in building 12 to LED \$680 savings /year
 Converted 10 parking lot lights to LED \$1,577 savings/year
 Miscellaneous LED conversions (22) throughout \$500 savings/year
 Savings figured by (original watts – new watts) x (hours/day)/1000 x \$.15 x number of days per year

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Section II: Energy Consumption Data

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 - If available, for each <u>meter</u> and/or each <u>building</u> in your organization
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Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	KT

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- Are you interested in a free walk-through energy assessment performed by a member of the Energy Office's Technical Assistance team? \bigcirc Y or \bigcirc N
- If you would like to subscribe to the South Carolina Energy Office newsletter The

Energy Connection please write the preferred e-mail:

- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility Building 26 Maintenance Shop
 - Capacity (kWAC) <u>3 KWH</u>
 - Interconnected utility <u>SCE&G</u>

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- B. If you have not made significant revisions to your Plan, but have only refined it, please provide a brief write-up addressing any changes that may have occurred since submission of your Plan in 2009. Please include energy team training and education. In addition, please let us know about any successes deserving mention, or barriers to improvement that you have faced. We want to publicize your successes and assist with obstacles where we can.

n/a

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Organization Name:

USC Upstate

Person(s) Filing Report (name, phone number, email):

Kent Orr, 864-503-5539, korr@uscupstate.edu

Please complete this report and return it to Conn Fraser at the Office of Regulatory Staff, Energy Office <u>(cfraser@regstaff.sc.gov)</u> no later than September 15, 2018. Completion of Section II requires the submission of energy consumption data, as described below. You may use the attached reporting tool or the format you normally use to track your energy use.

This report will allow the Energy Office to verify your compliance with the State Government Energy Conservation Act (§48-52-610 through 680 and §48-52-910, Code of Laws of South Carolina). In addition, the energy consumption data you provide will be made available to assist in statewide energy planning efforts. Please ensure that your submission is as complete and accurate as possible. If you need additional space, please attach pages or documents as necessary. If you have questions, please contact Conn Fraser at 803-737-5229 or cfraser@regstaff.sc.gov.

Section I: Energy Conservation Measures

§48-52-820 requires entities to report activities undertaken to implement their Energy Conservation Plan. For this section, please list each energy conservation measure that you implemented in FY18. For each measure, please include the following:

- 1. A description of the energy conservation measure implemented including an estimate of square footage affected.
- 2. The estimated and/or observed annual energy savings (if available) and estimation method (if applicable.).

If you implemented no energy conservation measures in FY18, simply write "None."

 Upgraded light fixtures in areas of most building to LED. This is done with in house labor as time permits - do not have square footage as we did not do entire buildings.
 Installed metering faucets in Campus Life Center.

4. Installed tamper proof digital t-stats in Palmetto Villas.

5. Implemented optimization in the Administration and George Dean Johnson Buildings.

^{3.} Installed VSDs on 2 air handlers in Hodge Center.

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Section II: Energy Consumption Data

To verify progress made toward state energy conservation goals and to assist in statewide energy planning efforts, please provide your complete energy consumption data for FY18 (including all sources of energy used in your buildings) in a format described below:

- If you use energy accounting software, please submit a file containing data showing <u>energy consumption</u>, <u>energy cost</u>, and <u>gross square footage</u> in FY18:
 - As <u>totals</u> for your organization
 - If available, for each <u>meter</u> and/or each <u>building</u> in your organization
- If you do not currently use any energy accounting software:
 - You may want to consider using Portfolio Manager, the free, web-based energy accounting system provided by ENERGY STAR. To access Portfolio Manager, please click <u>here</u>. If you would like more assistance with entering your data into Portfolio Manager, please email <u>cfraser@regstaff.sc.gov</u>.
 - You may choose to complete and submit the file entitled "SCEO Consumption Reporting Tool", which can be downloaded from our website (please click <u>here</u>).
 - Otherwise please submit data using Excel.

Section III: Purchase of Energy Conservation Products

§48-52-640 mandates that all state agencies "shall submit a disclaimer statement to the State Energy Office with [their] annual report stating that [they] did not purchase an energy conservation product that had not been certified by the State Energy Office." The Energy Office has posted a list of pre-certified and/or approved energy conservation products/measures on our website (please click <u>here</u>). For any products/measures not listed here, agencies should contact Conn Fraser at <u>cfraser@regstaff.sc.gov</u> or by telephone at 803-737-5229.

Statement	Initials
I hereby certify that my organization did not purchase any energy conservation products that have not been certified and/or approved by the Energy Office.	WKO

To be submitted to the Office of Regulatory Staff, Energy Office State Government Energy Conservation Act, Code of Laws of South Carolina

Section IV: Additional Questions

Your answers to these questions help the Energy Office tailor outreach and activities to address the needs of your organizations, thank you for your feedback!

- Are you interested in a free walk-through energy assessment performed by a member of the Energy Office's Technical Assistance team? OY or ON
- If you would like to subscribe to the South Carolina Energy Office newsletter <u>The</u> <u>Energy Connection</u> please write the preferred e-mail: <u>korr@uscupstate.edu</u>
- If any of your facilities have solar panels used to generate energy for the facility or to put back on the grid, please provide the name of the facility, kW (AC) capacity, and the interconnected utility.
 - Name of the facility_____

 - Interconnected utility ______

Section V: Energy Plan Update & Success Stories

Energy Plan Updates

- A. You submitted an Energy Conservation Plan, required by law, to the Energy Office in 2009; if you have significantly revised your Plan please send a copy for our files to cfraser@regstaff.sc.gov.
- B. If you have not made significant revisions to your Plan, but have only refined it, please provide a brief write-up addressing any changes that may have occurred since submission of your Plan in 2009. Please include energy team training and education. In addition, please let us know about any successes deserving mention, or barriers to improvement that you have faced. We want to publicize your successes and assist with obstacles where we can.

Changed set points in HRL (Housing Residential Life) Palmetto Villas Apartments to Occupied heat/ cool 0f 68 deg. F and cool 72 deg. F.

These were previously same as rest of campus.

ENERGY.SC.GOV

Office of Regulatory Staff

1401 Main Street Suite 900 Columbia, SC 29201

