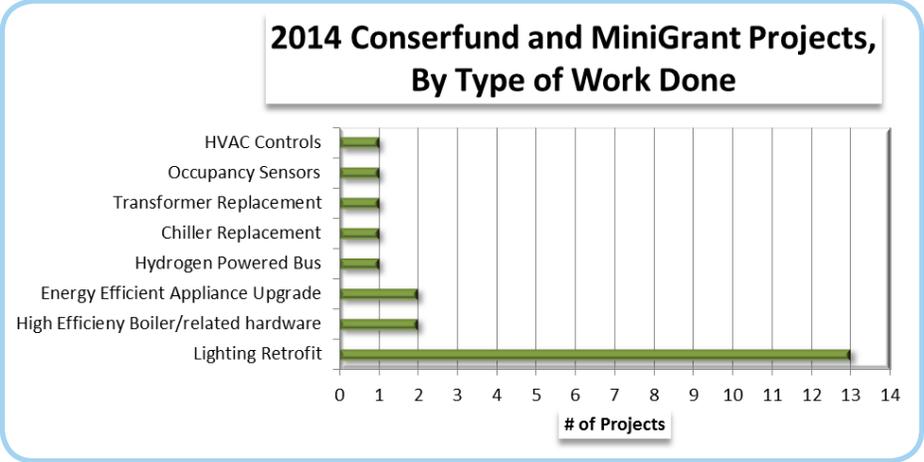


The South Carolina Energy Office is a Division of the South Carolina Budget and Control Board, created in its current form through 1992 legislation. Our mission is to help citizens, businesses and public entities save energy and money through greater efficiency and cleaner energy sources. SCEO reports on its activities through the US Department of Energy and in annual reports to the Public Utilities Review Committee. Much of the work we do cannot be easily reduced to numbers or charts; nonetheless, we have summarized some highlights of Fiscal Year 2014 here.

Loans and Grants Awarded

The South Carolina Energy Office administers the ConserFund Loan Program, designed to provide funding for energy efficiency retrofits and renewable energy or alternative transportation projects for government or non-profit entities. **In FY 2014, SCEO closed eight ConserFund Loans with a total expected savings of \$12,421,112.**

We also fund a small number of mini-grants intended to demonstrate the effectiveness of less expensive projects that produce measurable results in energy efficiency or use of renewable energy. **The SCEO mini-grant program has awarded \$30,000 to six applicants with expected savings of \$132,101.**



Individuals Receiving Training

283

Training to Improve Energy Management

The SCEO offers training to enable energy managers in all sectors to improve their ability to reduce energy use and costs. In FY 2014 we offered two **Boiler Steam Plant Improvement Workshops**, which are always very well attended. We often join with other entities to sponsor training. SCEO supported the development of a **Building Operator Certification** training program in the State Technical College System. That program launched its first class in FY 2014, providing solid training and a certification for energy system operators and facility managers. We sponsored the SC Homebuilders Association **training for building code compliance** and recognition of energy efficient home building. We also sponsored the SC Association of Heating and Air Conditioning Contractors (SCAHACC) **Duct Fair**, designed to acquaint heating and air professionals, builders and building code officials with proper duct design and maintenance. Finally, we developed a new program

2014 By The Numbers

in conjunction with SCAHACC, called **Duct and Envelope Tightness Training (DET)** which leads to a certification indicating the recipient is capable of properly using duct blaster and blower door testing equipment. The former is required by the new building codes, and the latter is an option for new code compliance.

ASCEM

The Association of South Carolina Energy Managers (ASCEM) provides information to members to foster a common energy management program for South Carolina. ASCEM informs and educates public energy managers and others and has, to date, **360 active members**. The South Carolina Energy Office (SCEO), in partnership with ASCEM, holds an annual spring conference that draws more than **150 energy managers** from across South Carolina. ASCEM partners with two other organizations to hold a similar event in the fall. ASCEM and the SCEO developed a training program leading to certification as an Accredited Commercial Energy Manager (ACEM) which has to date attracted **219 participants in the week-long course with a pass rate of 85%**.

Number of Accredited
Commercial Energy Managers
(ACEM)

179

Manufactured Housing

Approximately 20 percent of South Carolinians live in manufactured housing, one of the highest percentages in the nation. Legislation enacted in 2008 was designed to create incentives for ENERGY STAR labeled homes, which, like other ENERGY STAR products, are more energy efficient than those that simply meet required standards. These incentives include the elimination of all sales tax on ENERGY STAR manufactured homes and a **\$750 nonrefundable state income tax credit** for eligible home buyers. The South Carolina Energy Office administers the tax credit approval process and tracks savings. In the four and a half years the program has been in effect, it has encouraged savings that average approximately **\$477.00 per homeowner per year, or an average of \$23,695.00 over the lifetime of the home**, based on the tax credit applications received by the SCEO.

Public Information

Number of
Energy Connection
Subscribers

1385

The South Carolina Energy Office participates in public events and conferences to share information about energy efficiency and other programs implemented by our office. In FY 2014 SCEO had a vendor space at **eight conferences reaching more than 1200 attendees**. The SCEO booth distributes flyers about our grant and loan programs, booklets on energy efficiency at home, helpful tips for home owners and business owners, Energy Star information, as well as information on utility rebates and a demonstration about energy efficient light bulbs. SCEO staff were featured **speakers or panel contributors at 10 conferences** on topics ranging from energy efficiency to alternative fuels. *Energy Connection*, the SCEO e-newsletter, was recently presented with a **2013 Notable State Government Document Award** from the State Library.

Grants Received or Managed

In FY 2014, the South Carolina Energy Office (SCEO) won a **\$250,446 competitive grant** from the United States Department of Energy (DOE). The grant will assist our target population of public entities to initiate retrofit projects. We are also a partner with four other states in a DOE funded project to quantify existing and encourage new clean energy businesses.

In addition, our **DOE Clean Cities grant**, which allows us to work on alternative transportation projects through the Palmetto State Clean Fuels Coalition (PSCFC), was renewed with high praise for program management during the preceding year. Several transportation-related grants received during 2013 have been executed in 2014, allowing us to train **77 first responders** around the state how to respond to accidents involving alternative fuel vehicles. Our Clean Cities Stakeholders displaced just over 3 million gallons of petroleum in 2013. In April 2014 one of our grant recipients won the **2013 Spare the Air Award from DHEC**, due in large part to a biodiesel skid installed with funding from the PSCFC Carolina Blue Skies and Green Jobs Initiative.

Nuclear Programs

The Barnwell Low-level Radioactive Waste site reached a milestone in FY 14. **Phase 1 decommissioning was completed** and verified by the South Carolina Department of Health & Environmental Control (DHEC). This means that approximately **95 percent of the Barnwell waste site has been capped** and is no longer eligible to receive waste. In historical context, the Barnwell site received approximately 2,444,000 cubic feet of waste in 1980, approximately 788,000 cubic feet in 1990, approximately 120,000 cubic feet in 2000, and approximately 8,000 cubic feet in FY 2012-13.

Green Buildings & Advanced Energy Codes

The Energy Independence and Sustainable Construction Act of 2007 was intended to “promote effective energy and environmental standards for construction, rehabilitation, and maintenance of state-owned buildings, improving the state's capacity to design, build, and operate high-performance buildings and creating new jobs and contributing to economic growth and increasing the state's energy independence” (Section 48-52-820). State agencies establishing Permanent Improvement Projects after June 2007 that meet certain size requirements are required to weigh the life-cycle benefits of constructing to the US Green Building Council’s (USGBC) Leadership in Energy and Environmental Design (LEED) or the Green Building Initiative’s Green Globes certification standards. The Budget and Control Board is required to report on agency compliance with this law. At the beginning of FY 2014 **77 state buildings had achieved or were in the process of pursuing LEED or Green Globes certification.**

Number of State Buildings
with LEED certification

77

The US Department of Energy strongly supports state adoption of advanced energy codes. South Carolina adopted the 2009 International Energy Conservation Code effective January 1, 2013, and the SCEO has offered training in support of the new code beginning in 2012.

Maximum Power Outages
February 13, 2014

346,000

Energy Assurance

The SCEO is required to maintain an Energy Assurance Plan, which is filed with the US Department of Energy annually. Unlike many other state energy offices, SCEO also assists the Office of Regulatory (ORS) Staff in carrying out the responsibilities of Emergency Services Function (ESF)-12, which addresses energy related emergency matters.

Ice storms in January and February of 2014 caused the South Carolina Emergency Management Division (EMD) to activate ESF-12, where SCEO personnel assisted ORS in 24 hour management of the two events.

State Agency Energy Use

The South Carolina Energy Office has assisted state agencies, and public colleges, universities and k-12 schools to benchmark their energy use and cost since 2000. Recently, benchmarking has taken on a new importance with the passage of legislation requiring these entities to **reduce their energy consumption by a total of 20 percent by 2020**, as compared to 2000 levels. Agencies submit data at the end of each summer, data are summarized and aggregated totals are presented in a report issued in December of each year.

Number of Agencies that have met their 20% reduction goal

82

Organization Type	Average Energy Use per Square Foot (site kBTU)			Average Energy Spending per Square Foot (\$)		
	FY2000	FY2013	% change	FY2000	FY2013	% change
State Agencies	113	103	-9%	\$1.80	\$1.74	-3%
Residential Colleges and Universities	143	113	-21%	\$1.76	\$1.89	+7%
Non-Residential Colleges and Universities	80	64	-20%	\$1.58	\$1.55	-2%
School Districts	45	38	-15%	\$1.14	\$1.08	-5%
Total	75	62	-17%	\$1.38	\$1.34	-3%

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