

your energy CONNECTION

a newsletter from the South Carolina Energy Office

South Carolina Energy Office Hosts Electric Vehicle Awareness Day

South Carolina is open for business for electric vehicles! In an effort to raise awareness of new electric vehicle (EV) technologies and the benefits of reducing reliance on fossil fuels, the South Carolina Energy Office, in partnership with the South Carolina Department of Commerce, hosted "South Carolina Electric Vehicle Awareness Day" on Tuesday, March 12, at the Statehouse. The event highlighted different types of electric vehicles currently available from Mitsubishi, Nissan and Chevrolet as well a golf cart from Tomberlin, a "people mover" from Simpsonville's Star EV and an all electric four wheeler from Pathfinder ATV. In addition to viewing this emerging technology, attendees had the chance to test the new technology after the press conference at a Ride & Drive.



What some may not know is that South Carolina is leading the field in automotive innovation, with vehicle manufacturers and suppliers already in operation and initiatives at Clemson University and the University of South Carolina researching and developing cutting edge vehicle technologies. Many private and public entities have installed alternative fuel equipment and more are considering it. In fact, as electric vehicles continue to evolve, cities across the state are installing the necessary infrastructure to support the growing number of EVs on the road.

To date, charging stations for electric vehicles can be found in every major city in South Carolina. In October 2012, six new charging stations were installed in Hartsville and downtown Florence. Those join stations in Aiken, Myrtle Beach, Hilton Head, Spartanburg, Rock Hill, Greenville, Charleston and Columbia, making South Carolina one of the top 10 states in the nation in terms of charging stations per capita. According to the United States Department of Energy, South Carolina ranks eighth with 106 charging locations for its 4.6 million residents—a number that steadily continues to rise.



Photos: Visitors peruse the electric vehicle display on the Statehouse grounds (left); S.C. Secretary of Commerce Robert Hitt stands with Yoichi Yakazawa, President & CEO of Mitsubishi North America (above).

SCEO Calendar of Events

April 2013

- 29 **Moving from 2006 to 2009 IECC in Commercial Buildings; A Primer for Designers, Builders & Code Officials**
Midlands Technical College, Northeast Campus
151 Powell Road, Columbia, S.C. 29203
8:30 a.m.-4:30 p.m.
- 30 **Moving from 2006 to 2009 IECC in Commercial Buildings; A Primer for Designers, Builders & Code Officials**
Greenville Technical College
506 South Pleasantburg Drive, Greenville, S.C. 29607
8:30 a.m.-4:30 p.m.

SAVE THE DATE!
May 2, 2013

ASCEM 2013 Spring Conference
Pine Island, Lake Murray
Lexington, South Carolina

Registration is now available online for attendees and vendors:

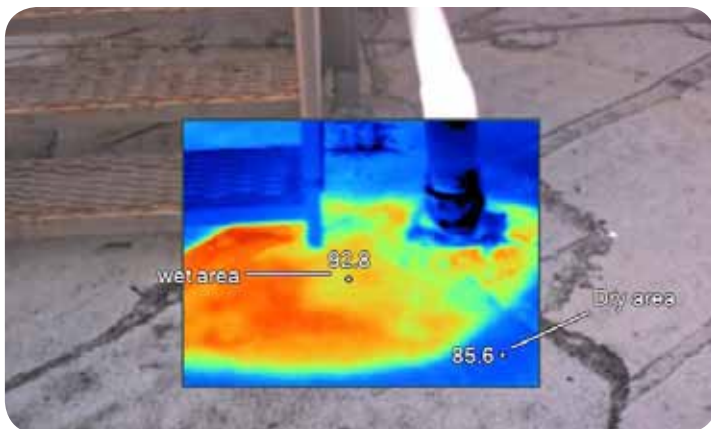
<http://energy.sc.gov/index.aspx?m=14&t=71>

Energy Office Completes Final Thermal Camera Training for Local Government Code Enforcement Officers

On March 7, SCEO staffers traveled to Orangeburg for the final class in our series of thermal camera training for local government codes officers. Attendees from Aiken, Berkeley County, Georgetown and Orangeburg spent the morning learning how to operate their new cameras and getting tips from class instructor Jesse Erbel of the South Carolina Sustainability Institute (SCSI). SCSI partnered with the S.C. Energy Office to complete four training programs across the state for recipients of infrared cameras. The cameras were provided to the building code enforcement officers in each county and the ten largest cities in the state through the S.C. Energy Office's Energy Efficiency & Conservation Block Grant from the U.S. Department of Energy.



Thermal imagers (sometimes referred to as infrared cameras, thermal cameras or infrared imagers) capture images of infrared energy or temperature. The cameras provided combine the power of infrared images with visible light images on the same display, allowing inspectors to see problems with building efficiency that would normally be hidden behind walls or beneath floors. Issues such as pipe leaks, air infiltration and missing insulation can be detected by the cameras without costly inspections, allowing codes officers to prescribe treatments more quickly and with less overhead cost.



Photos: Students set up their thermal imaging cameras in preparation for use (top); an image showing a water leak captured by a thermal imaging camera

SCEO Provides Energy Program for Richland One Schools

The South Carolina Energy Office and The Palmetto State Clean Fuels Coalition hosted an alternative vehicle display for Richland School District One high school students. At least 300 Eau Claire High School students saw and touched alternative fuel vehicles as part of their science class on February 21, 2013. Students and teachers explored the vehicle display and learned methods to reduce their petroleum consumption and the benefits to alternative fuels, including biodiesel, natural gas and electric vehicles.

At the same time, the high school hosted the SCEO-Sponsored Great American Energy Debate where students and teachers from Eau Claire, A.C. Flora, Lower Richland, W.J. Keenan and Columbia High Schools heard from speaker Jerry Katz of the National Foundation for Energy Education. Katz, known as "Mr. Energy", led energy activities based on English, math, science and social studies standards. The Great American Energy Debate is a program that, while entertaining, aims at teaching student leadership. Participants return to their schools and conduct energy education activities with their peers, spreading the message of energy efficiency.

Moving From 2006 to 2009 IECC in Commercial Buildings: A Primer for Designers, Builders and Code Officials

On January 1, 2013, the 2009 International Energy Conservation Code (IECC) became a requirement in the State of South Carolina, replacing the 2006 version. The South Carolina Energy Office is offering two training classes for architects, engineers and codes officials to help make the transition to the new code compliance. Each class will go into detail about the 2009 IECC and how it relates to the International Building Code and will outline major differences between the 2009 IECC and the 2006 version. The course will also provide an introduction to ASHRAE 90.1-2007, the reference standard cited by the IECC as an additional path to demonstrate energy code compliance. The course will introduce various tools available for use by both the design professional and code official to demonstrate code compliance and to stay abreast of the latest code changes and best practices for design, review and inspection of building construction for IECC compliance. Finally the course will provide a brief discussion of where future editions of energy codes are headed and conclude with a short question and answer session.

Course Location & Registration Information

Midlands Technical College, Northeast Campus

151 Powell Road, Columbia, SC 29203

Registration: <http://www.midlandstech.edu/cce/weatherization>
(click on course schedules on the upper left)

Greenville Technical College

506 South Pleasantburg Drive, Greenville, SC 29607

Registration: <https://aceweb.gvltec.edu/wconnect/ace/CourseStatus.awp?&Course=I22R0G59I0I0&DirectFrom=Search&Origin=Search+Results>