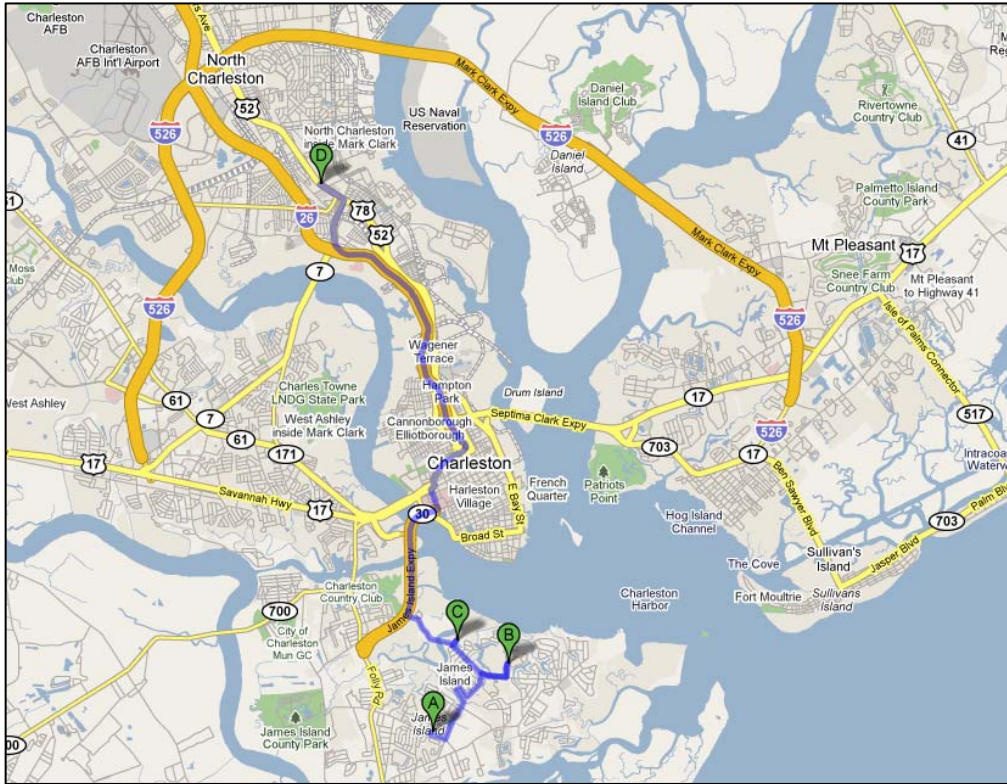




Charleston Solar Tour

2009 SCSC Solar Tour and Workshop Series

Saturday, October 3, 2009, 1pm – 5pm



A. Sustainable Energy Solutions, LLC and the Home of Paul Fleury and Greg White *1316 Briarfield Avenue, Charleston, SC 29412*



The office of Sustainable Energy Solutions has an Eagle Sun solar water heating system consisting of two AE-26 collectors, an 80 gallon storage tank, and 10 gallon drainback tank with heat exchanger. Paul Fleury and Greg White recently started a solar installation and residential energy consulting business, Sustainable Energy Solutions, LLC. They installed their system in January 2009. The system is capable of producing 52,000 BTUs per hour with good sun. They haven't had a bill over \$70 since installation. In addition to solar power, the business and residence feature CFL light bulbs and a programmable thermostat.

The building is located on James Island. From 17 or the 30 Connector turn on to Folly Rd (171) headed towards Folly Beach, make a left on Camp Rd. and follow for approximately 1 mile. Turn left

on Gettysburg Rd. (take for approximately 100 yards to the stop sign). The driveway is directly through the stop sign – you can't miss the solar panels.

B. The Home of Joseph Wise

738 Old Plantation Road, Charleston, SC 29412

The Wises have a solar hot water system, a solar space heating system, a solar photovoltaic system with 2.8 kW and micro-inverters, and a 20 watt solar powered attic ventilation system. Mr. Wise also takes pride in his solar address sign on the mailbox, solar landscape lights and a solar powered garden fountain. Companies involved in installation include SolarHotWater Works, Terrace Heating & Air, Sunstore Solar Energy Systems and Bruorton Roofing. In addition to solar power, the home has

many energy efficiency features including an enclosed crawlspace that was insulated and dehumidified by www.yourcrawlspace.com. The attic was insulated with R-28 closed cell foam insulation and the ceiling was insulated with R-50 in March, 2009. Most lighting is CFL or LED bulbs.



From SC-30, take exit 2 to merge onto Harbor View Road. Turn left at Old Plantation Road.

C. The Home of Libby Smith and Charlie Sneed

611 North Shore Drive, Charleston, 29412



In 2007, Libby Smith and Charlie Sneed decided to install solar on home on James Island. The 3.36 kW photovoltaic system has 16 type - SunPower 210 Watt PV Modules (SPR-210-BLK) and a Sunny Boy Inverter. They also have a 4 panel Apricus solar hot water system. Libby and Charlie found many barriers and hurdles to connecting their solar generation to the electric grid and made it their mission to change the regulations about interconnecting with SCE&G. Libby is serving on a Legislative study group to make recommendations for net metering in SC. They were also the first homeowners to receive premium payments from Palmetto Clean Energy, Inc. (PaCE) for generating

renewable energy. PaCE is a voluntary non-profit established by the investor-owned utilities to promote renewable energy. These payments are funded by rate payers who choose to make a voluntary charitable deduction of \$4/month on their monthly power bills. According to Libby, "Because the upfront costs of installing solar are significant, people often ask us, what is the payback? Right now, we buy all our electricity from SCE&G just as we always have paying between \$.095 and \$.19/kwh. We then sell all our solar generation to SCE&G and receive additional premium payments from PaCE. During the summer, we receive a total of \$.20 to \$.24/kwh. The reimbursement will be lower in the winter. As long as PaCE is available, putting solar panels on our home is not just environmentally sounds, but economically attractive."

From SC-30, take exit 2 to merge onto Harbor View Road. Turn left at North Shore Drive.

D. Alternative Energy Systems—Chip Lucas
3655 Rivers Avenue, North Charleston, SC 29405



In 2007, Chapman “Chip” Lucas expanded his business from car audio to his passion: renewable energy. He started a new company called Alternative Energy Systems and one of his first installations was on his own business. He installed a 600 Watt thin

film amorphous array which is unique in that it produces power even when it is cloudy. Additionally, Chip installed a heavy duty track system that could withstand hurricane force winds. In September 2008, Chip installed another renewable technology utilizing wind power. It is a low wind 400 Watt windmill that starts producing energy at 3.2 mph winds. It powers the stereo board and 12vdc lighting in his business. There is also a sunpipe, wood stove, and efficiency devises at his business available for demonstration.

From I-26, take exit 216B to merge onto Cosgrove Avenue/SC-7. Turn left at Rivers Avenue.

This tour is coordinated by the South Carolina Solar Council, a state chapter of the American Solar Energy Society (ASES). This is the second year that South Carolina has hosted a state-wide solar tour as a part of the ASES National Solar Tour. For more information about the event, please go to www.scsolarcouncil.org, or contact Sarah Tholstrup at stholstrup@energy.sc.gov or 803-737-4078 for questions and ways to volunteer!

Special thanks to our Platinum Sponsor Santee Cooper, our Bronze Sponsors Addison Homes and Argand Energy, and our vendors and volunteers:



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