



ARC ENERGY EFFICIENT PROJECT SUMMARIES

Juniata Energy Efficiency Renovation and Curriculum (Pennsylvania). Juniata Valley School District installed energy efficiency equipment as part of a high school renovation project. At the same time, the school system instituted a coordinating energy efficiency curriculum for the K-12 schools in partnership with Penn TAP, a Pennsylvania technical assistance program. A USGBC LEED Building Analysis was performed when renovations were completed.

Haywood Community College Energy Efficiency Training and Certification Project (North Carolina). Haywood Community College will expand its Building Construction Technology Program to include energy efficiency training and certification. The project will leverage and expand the College's collaboration with county government and businesses to build local buyer/supplier relationships in energy efficiency. The College expects to train and/or certify 15 students and 40 businesses per year.

The Sunrise Project (Tennessee). Pellissippi State Community College will expand its current environmental program to include training courses in weatherization energy auditing and photovoltaic system design and installation. A retrofitted residential structure, once targeted for demolition, will serve as a training and demonstration center on the College's flagship campus. The courses are being offered as a response to specific local demand and are not currently available in the College's service area. The College expects to train 100 students during the first two years.

Green Building Center (Virginia). In response to demands for energy efficiency training, People Incorporated of Virginia established the Green Building Center. The Center will provide ongoing training and certification opportunities in weatherization and other energy conservation construction services to low income residents in central and southern Appalachia. Courses will include classroom, lab and hands-on training to instruct students to properly identify and correct residential energy problems. The organization expects to train 50 individuals and create 2 new jobs.

Green Home Construction & Weatherization (West Virginia). Highland Community Builders, Inc is expanding its current education efforts to include comprehensive training on green building techniques, energy efficiency assessments, and weatherization practices. The organization is part of a consortium which renovates and constructs homes for low and moderate income families, trains young adults in construction techniques, and assists families with financing and related education. As part of this program, a local historic building will be renovated as part of the training. The organization will certify over 50 staff members and students and create 10 new jobs.

WV Green Women Training Project (West Virginia). WV Women Work will expand its current education program to include Green Advantage, an energy efficiency curriculum workshop and certification program. The organization has a well established employment based, skilled trade training program designed to prepare adult women for entry level positions as laborers, carpenter assistants, and statewide union construction apprentices. WV Woman Work will hold three Green Advantage focused workshops across West Virginia that will focus on energy efficiency strategies in both commercial and residential construction. The organization plans to certify 40 students and place 32 graduates into jobs within the energy efficiency construction industry.

Athens LED Traffic Signals (Ohio). The City of Athens replaced over 450 incandescent traffic signal lights with energy-efficient LEDs at 20 intersections throughout the city. After the exchange, Athens realized a 50% reduction in electricity charges for city traffic signals.

Energy Efficiency Applications for Businesses (Alabama). The Waste Reduction Technology Transfer Foundation (WRATT) is an organization that performs on-site technical assessments, seminars, and workshops to help businesses, local governments and school systems reduce operating costs and energy consumption. One steel manufacturer located in Ft. Payne, AL reported that savings generated from implementation of WRATT recommendations resulted in annual savings totaling \$550,000.

MACED Green Jobs Program (Kentucky). This organization is developing strategies to eliminate barriers for new energy sector growth in economically distressed areas of eastern Kentucky. Creation of a flexible financing structure to pay for new energy retrofits is possible strategy under development. Utility customers could pay for energy efficiency upgrades when they pay their utility bills through reduced energy savings. Once the capital is recouped by the utility, the homeowner or enterprise will benefit from lower bills as a result of reduced consumption.

BizTech Renewable Energy & Energy Efficiency Program (Tennessee). This program works in conjunction with the US Department of Labor's WIRED initiative to provide technical assistance services to clean and renewable energy businesses. Energy seminars are being held to identify current and prospective recipients of the services. Contacts from local economic development organizations have helped identify prospective businesses. The US Department of Energy's National Renewable Energy Lab will provide additional support to target businesses. This program will extend the services of existing incubators into rural communities.