

<http://www.state.tn.us/ecd/energy.htm>



## **State of Tennessee Energy Division Programs**

**Small Business Energy Efficiency Loan Program** - The Small Business Energy Efficiency Loan Program (SBELP) was implemented in 1988 to assist Tennessee businesses in the identification, purchase and installation of energy efficiency measures on their existing buildings and facilities. The program makes low interest and no interest loans available to finance the cost of implementing the measures that are identified in an energy audit. During the most recent FY 05-06, 22 applications requesting \$2,045,270 in assistance were received; 15 applications for \$807,173 were approved; and 9 loans for \$330,756 were closed. To date, since the program began, over \$12 million has been approved and over \$9.7 million in loans have been made.

**Small Business Energy Efficiency Technical Assistance** - The program provides free energy efficiency technical assistance (energy audits) to all Tennessee businesses, regardless of size. During the most recent FY 05-06, a total of 94 energy audits were performed for 63 businesses throughout Tennessee. These audits estimated that the \$4,147,431 in energy efficiency projects identified in the 3,960,987 square feet of commercial space audited would save the businesses approximately \$1,170,819 in annual energy costs.

**Tennessee Clean Energy Technology Grant Program (TN-CET):** - The purpose of the program is to assist existing Tennessee retail, commercial and industrial companies supplant the use of fossil fuels by using approved renewable and other clean energy technologies and systems. The program makes available a grant of up to 40% (not to exceed \$75,000) of the installed cost of photovoltaic, wind energy, solar water heating, hydrogen fuel cell and hybrid solar lighting systems. The program was implemented in September 2006 and to date three photovoltaic system projects valued at over \$256,000 have been approved.

**Local Government Energy Efficiency Loan Program** - The program makes loans to county/city owned local government facilities for energy efficiency retrofits. Loans are made for up to \$500,000 for each county or city government. These loans are 0% interest for Tennessee Three-Star communities and 3% interest for non Three-Star communities. This program also provides free energy saving assessments to identify needed energy efficiency measures. From July 1 - Dec. 31 in our present fiscal year, we have made loans of \$1,700,922. These loans resulted in the savings of approximately \$345,000 per year and over a 12 years measure life will save an estimated \$4,140,000 in energy costs. Our estimates for loans to be made in the fiscal year 06-07 is \$3,500,000. Total funds loaned since program inception is \$17,313,540.

**Biodiesel Infrastructure Program** - This program provides grants to each Tennessee county government for the purchase and installation of Biodiesel tanks, pumps and card readers to be used for fueling biodiesel vehicles in those communities. Three-Star communities qualify for 75% grants and non Three-Star communities qualify for 50% grants. Under this program, the maximum grant to any county is \$12,000. We have set aside \$1,140,000 to make at least one grant in each of Tennessee's 95 counties. Thus far, we have made 9 grants for \$87,625 for Biodiesel Infrastructure for county and city governments.

**Clean Cities Program** - The Clean Cities Program is sponsored by the U.S. Department of Energy and was created to advance the use of cars and trucks powered by alternative fuels. The program promotes the purchase of alternative fuel vehicles and the expansion of the AFV-refueling infrastructure. The Energy

Division has provided start-up funding of \$460,399 to 3 Clean Cities programs in Tennessee. Programs in Knoxville and Nashville have been officially designated by the U.S. DOE as Clean Cities and our Clean City program in Memphis is working towards official designation. We have also received Special Project funding of \$59,800 for Clean Cities from DOE Coalition Support. Special Projects has also provided funding for the City of Franklin for \$199,900 towards the purchase of a hybrid electric/gas bus for their transit system.

**Industrial Technology Program** - Tennessee's Energy Division participates in national level industrial programs that have provided business support, contributing to job retention through deployment of energy saving industrial technologies.

Industries of the Future - The Energy Division, under a Memorandum of Understanding between DOE and the State of Tennessee, has implemented a program between Tennessee Tech and two of the vital IOF industries—metal casting and chemicals—in an effort to research and deploy improved manufacturing strategies or methods that reduce energy consumption.

Best Practices - The Energy Division also promotes Best Practices workshops and energy assessments through an agreement with Tennessee Tech. In 2005-2006, between DOE and the Energy Division, seven (7) workshops and free assessments were delivered to industry. A total of 162 attendees participated in the workshops.

Save Energy Now - The U.S. Department of Energy launched Save Energy Now to help American businesses, factories, and manufacturing facilities save energy and continue to thrive during this time of diminished supplies and rising energy costs. A free energy assessment, comprised of a walk thru and site analysis of a particular energy system, is conducted by a DOE-certified expert, who also uses the Best Practices tools to inspect the systems(s) and to provide on site assistance and training to the plant manager or operator. Several companies in Tennessee applied for and received assistance from the program, including **DuPont, DENSO, Owens Corning, Eastman Chemical, AFG, Sonoco, Norandal, FR Countermeasures, Bekaert Wire, Alcoa, KTG and Fleetguard.**

Energy Efficiency Outreach - This program, a DOE special project, is intended to identify energy savings opportunities found in manufacturing environments where novel processes may be involved. Frequently there are methodologies and processes found in the research environment that have not reached the manufacturing floor. This program will attempt to outline an existing process that may benefit from the application of a more novel approach to completing the process while conserving more energy. A collaborative effort between the Energy Division, Oak Ridge National Laboratory and Tennessee Tech University, the program terminates in October 2007. The following companies have benefited from this outreach program: **Sonoco, TTE, Precision Boilers, Renold-Jeffrey.**

Industrial Assessment Center - Tennessee Tech in June of 2006 was awarded IAC status by DOE.

# TENNESSEE

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**Tennessee Energy Education Network** - (TEEN) promotes energy education in grades K-12 statewide. TEEN develops and distributes energy educational materials for teachers, students and classrooms, conducts in-service training workshops for teachers and classroom presentations for students, conducts annual energy contests, energy education training conferences for students and publishes a bimonthly newsletter. Accomplishments for fiscal year 2005-06 include 21 in-service training workshops for 343 teachers, 159 classroom presentations for 4,578 students and distribution of over 27,000 materials for classroom use statewide. The Tennessee Energy Education Network is the state coordinator for the National Energy Education Development Program (NEED). NEED selected Tennessee as the 2005 State of the Year. Huntingdon Primary School has been awarded the National Primary School of the Year for two consecutive years in the NEED Youth Awards for Energy Achievement competition. During the 2005-06 school year, over 200 students participated in the NEED program that reached over 12,000 students and 35,000 community members statewide.

**Public Outreach** - The public outreach program assists small businesses, local governments, and residential energy users with information that will help them to find and or make informed energy decisions.

**Tennessee Energy Emergency Plan** - Energy Emergency Planning was established by the Energy Division to encompass the activities pertinent to energy emergency preparedness. The Tennessee Emergency Management Agency (TEMA) has established a framework for the development of a comprehensive emergency management plan for the State of Tennessee. The Energy Division's Petroleum Contingency Plan is a part of the ESF-12.

**Energy Emergency Planning** - The Energy Division established Energy Emergency Planning as a component of the SEP, incorporating the division's original energy contingency activities and establishing a network of organizations and activities relative to emergency planning. The program also includes the development of a Geographical Information System (GIS) administered by ECD's Local Planning Offices, which provides infrastructure information necessary for optimal energy emergency preparedness. The primary goal of the Energy Division/Local Planning Assistance Office's GIS project has been to develop a digital cartographic base capable of geographically locating a wide range of information suitable for emergency preparedness, local planning, and other management applications.