

LAST TENNESSEE CLEAN FUELS



ETCleanFuels.org

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The ETCFC is housed within the
Institute for a Secure and
Sustainable Environment at
the University of Tennessee
at Knoxville.

2009 Founding
Partners:



TRANSPORTATION FUNDING OPPORTUNITIES

June 10, 2009 – Fall Creek Falls

Tennessee Renewable Energy & Economic Development Council Meeting

Tennessee's Clean Cities coalitions:

East Tennessee

Jonathan
Overly
(info at left)

Middle Tennessee

David Pelton
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West Tennessee

Tim Schnippert
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U.S. Department of Energy

FEDERAL

1. Tennessee Stimulus/ARRA Block Grants – see next page
2. FY 2009 National Diesel Emissions Reduction Program (DERA) appropriations
 - › EPA Region 4; focused on diesel emissions reductions
 - › \$60 million nationwide (10 regions; guessing at \$6 million for Region 4?)
 - › CNG projects, retrofits, aftertreatment devices, school buses, etc.
 - › Get/stay plugged into you Clean Cities, Southeast Diesel Collaborative
3. DOE Clean Cities "Area of Interest #4"
 - › Round 1 ended May 29, \$300 million total; will any be left over?
 - › Alt. fuel Infrastructure and vehicles for all kinds fleets including local government fleets (CNG and propane conversions and infrastructure; hybrids; plug-in hybrids; E85 infrastructure)
 - › Will likely need to partner with other funding seekers in your state or with related proposals (\$5 million dollar *minimum federal request* in Round 1)
 - › Need to be prepared AHEAD OF TIME; know fleets and what could be converted
 - › Get/stay plugged into your Clean Cities coalition

There is discussion of \$200 million being set aside for 2010 in Clean Cities grant funds. What's the point? Start getting your ideas and information in order now!
4. CMAQ – funding for nonattainment areas only
 - › Focused on local pollutant (NOx, PM-2.5) reductions in the NA areas
 - › Key metrics will be tons of pollutants reduced per federal dollar
 - › Communicate with local TPO or MPC about funding cycles/times

STATE

1. Biodiesel infrastructure funding – **ENDS JUNE 30!!!** Up to \$12,000 per city or county; funds are for 1) cleaning diesel infrastructure, 2) putting in new infrastructure (tank or pumps), or 3) related card reader systems
 - › Contact Terry Ellis – 615- 741-2994; Terry.Ellis@tn.gov
2. Potential TDOT "Green Island" Public Biofuel Station Funding – Up to \$45,000 for placing public E85 or B20 stations along major interstate routes and corridors, or in urban areas; next round likely to come out end of summer (no guarantees here)
 - › Contact Linda Tidwell, TDOT – 615-253-2860; Linda.Tidwell@tn.gov

TENNESSEE BLOCK GRANTS

The funding will support energy audits and energy efficiency retrofits in residential and commercial buildings, the development and implementation of advanced building codes and inspections, and the creation of financial incentive programs for energy efficiency improvements. Other activities eligible for use of grant funds include transportation programs that conserve energy, projects to reduce and capture methane and other greenhouse gas emissions from landfills, renewable energy installations on government buildings, energy efficient traffic signals and street lights, deployment of Combined Heat and Power and district heating and cooling systems, and others.

My understanding is that the state energy office (SEO) will come out with some guidance, then this will be competed with the SEO doing the final reviewing and decision-making. SEO is expecting to have materials online as guidance by June 26.

TN Total Sum City, County, and SEO Allocations	All	\$42,243,200
Tennessee	State Energy Office	\$13,818,200
<i>The above is for "non-entitlement" cities and counties; that is, those not listed below.</i>		
Memphis	City	\$6,767,200
Metro. Nashville/Davidson	City	\$6,225,400
Knoxville	City	\$2,012,700
Chattanooga	City	\$1,864,300
Clarksville	City	\$1,114,900
Murfreesboro	City	\$961,100
Jackson	City	\$670,700
Johnson City	City	\$661,800
Franklin	City	\$593,700
Kingsport	City	\$219,100
Bartlett	City	\$193,600
Hendersonville	City	\$190,500
Cleveland	City	\$186,300
Germantown	City	\$169,600
Smyrna	City	\$164,800
Brentwood	City	\$164,500
Collierville	City	\$164,400
Knox	County	\$2,125,400
Hamilton	County	\$616,500
Blount	County	\$501,600
Sullivan	County	\$459,700
Wilson	County	\$433,300
Sumner	County	\$431,700
Shelby	County	\$421,800
Rutherford	County	\$418,600
Sevier	County	\$356,900
Maury	County	\$334,900

What's going on in the ETCFC?

Working to Place Public Biofuel Pumps

We've spent a considerable amount of time working with approximately 10 different station owners across all of East Tennessee to directly get them funding or to help them with funding from other sources. Shown in the picture is Bill Weigel pumping the first few gallons of E85 from his new E85 pump in Clinton, Tennessee. The ETCFC garnered \$25,000 to help him open this pump at this new Weigel's station.



Holding Monthly and Bi-monthly Meetings

We manage monthly meetings in Knoxville and bi-monthly meetings in Tri-Cities and Chattanooga to update interested individuals and businesses about what's going on in East Tennessee, allow them to ask questions and learn, and provide a forum for networking.

EAST TENNESSEE
**CLEAN
FUELS**



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Managing Two Smart Fuels Publications

The state-wide alternative fuels newsletter the *Tennessee Clean Fuels Advisor*, a 6-page, color, quarterly; and another quarterly that called the *Southeastern Fuels Fix*. This Ezine is written by regional coordinators and other actors for change; read more here: <http://www.FuelsFix.com>.

Presentations to Area K-12 Grades

The ETCFC reached 3,200 regional students in the '08-'09 scholastic year with the message of the need for smarter transportation fuel options, including the use of alternative fuels and higher fuel economy vehicles. That is up from around 1,700 the previous year; most all are through a classroom-sized presentation. This year's effort is led by Patricia Weaver of Jackson, Tennessee (Maryville College grad) who worked all the way from high schoolers down to first graders through our program called "1st Graders for Clean Fuels." In the latter, all five senses are engaged as we teach about alt fuels. This is a core part of our efforts.



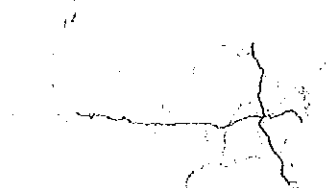
Trying to Recover in This Biodiesel Market

Due mostly to pricing, some of our city, county or commercial fleets that were using biodiesel blends stopped in 2008. For some fleets, we did not find out until recently; Knoxville Area Transit and the cities of Knoxville, Oak Ridge, Maryville and Alcoa are some examples. We have had meetings with KAT and Knoxville and are talking with the other cities about them getting back on-board.

Putting Together Two Green Corridor Proposals

With help from the ISSE office, we are the Principal Investigator on proposals to place biofuels along two major interstate in the United States: I-75 and I-40. The goal will be to place new B20 and E85 pumps along those major

travel routes so that a distance of no greater than 200 miles exists between stations, enabling travelers to fill-up all along their drive on that alternative fuel.



Working to Build Alt Fuels-Building Teams

We have partnered with the UT Biofuels Institute and Genera Energy to further ethanol education in our region, and are leading meetings to try and establish CNG fleets and infrastructure in the Knoxville and Chattanooga areas.

Maintaining and Growing Our Partners List

While working to keep in contact with our many regional government and industry partners, finding new ones. Two examples expanding a relationship with Alstom Power to make them a new \$10k partner, and assisting the new Tennessee Renewable Energy & Economic Development Council in their renewable fuels-focused planning for the Cumberland Plateau area.

... and Participating in Major Regional Partnerships

- ▶ One of three coalition coordinators that is a co-chair of the newly formed Clean Cities Coordinators Council
- ▶ Board Member of the Transportation Energy Partnership
- ▶ Major participant in the Southeast Alt. Fuels Task Force
- ▶ Member on multiple committees for the U.S. EPA Region 4's Southeast Diesel Collaborative

Jonathan G. Overly, Executive Director

East Tennessee Clean Fuels Coalition
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Winner, Air Conservationist of the Year, 2007 – Tennessee Wildlife Federation
Winner, Clean Cities Coordinator of the Year, 2006 – National AFVI Conf. & Expo, Phoenix, AZ

"Leave the world a better place than you found it."



The transition to a sustainable portfolio of clean, domestic transportation energy and technologies is critical to restoring prosperity and addressing longer term security and environmental concerns. In order to accomplish this, Congress and the Obama administration need to increase and sustain appropriations for alternatives and efficiency.



U.S. Department of Energy

Fortunately, we already have a coordinated federal deployment initiative devoted to energy security. **It's called Clean Cities.** There are 90 community or state-based coalitions with more than 5,700 stakeholders representing 230 million U.S. citizens working to make America more energy secure by displacing petroleum with cleaner, domestic fuels and increasing vehicle fuel efficiency. Clean Cities coordinators lead local coalitions composed of fleets, fuel providers, vehicle manufacturers, non-government organizations, decision makers and private citizens that focus on a single goal: petroleum use reduction. Since its

inception in 1993, Clean Cities and its stakeholders have displaced more than 2 billion gallons of petroleum.

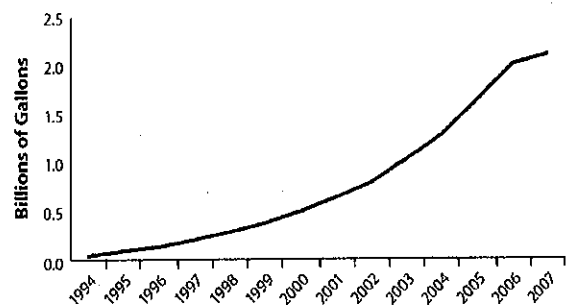
About 425 million gallons of gasoline were displaced through Clean Cities efforts in 2007.

Coalitions have been increasing AFVs at an average growth rate of 17% per year in their areas.

The five Clean Cities technologies are:

- Alternative fuels and vehicles
- Hybrid electric vehicles
- Idle reduction technologies
- Fuel economy measures
- Low-level fuel blends

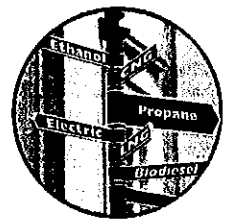
Cumulative Gasoline Gallon Equivalents Displaced



The goal of Clean Cities is to expand and stimulate alternative fuel and advanced technology markets to reduce petroleum consumption by 2.5 billion gallons by 2020. Clean Cities is focusing on three primary methods to achieve this goal: Replacement, Reduction, and Elimination.

In addition to petroleum displacement, a remarkable achievement of Clean Cities coalitions is their ability to leverage the DOE investment. In 2006, the coalitions won 165 grants worth a total of \$87.3 million, plus another \$33.1 million in leveraged funds from coalition members. This represents a 15:1 leveraging of the \$8 million program budget in FY06 enabling coordinators to spend more than 80,000 hours pursuing Clean Cities' goals—like having a national network of 90 full-time technical sales professionals working to reduce U.S. dependence on oil!

The staff and stakeholders within local and state coalitions are passionate, experienced and effective champions and have a proven track record of success in leveraging private and local investments in fueling facilities and vehicle technologies. Our collective expertise and cohesive networks are needed now more than ever. Investments in the Clean Cities network are needed now to help us realize the shift in transportation fuels that is needed for energy and environmental security.



Coalitions and their stakeholders also promote and support state and local policies to advance the goal of energy independence, such as tax incentives for deployment of various alternative fuels and acquisition of more fuel-efficient vehicles, research and development efforts related to advanced vehicle technologies, and biofuels production. These and other community and state incentives and policies to encourage petroleum alternatives will improve the energy security of the United States and help the country transition to renewable, domestic and reduced carbon or carbon-free energy sources.

We are facing a critical time in our nation's history for a host of reasons. The transition to a sustainable portfolio of energy options enables us to create new American jobs, improve air quality, and is a critical step in restoring our prosperity and addressing longer term security and environmental concerns.

Learn more about the Transportation Energy Partnership at www.TransportationEnergyPartners.org and find out how you can be a part of the solution.