NG in TN update for mid-2012, featuring

Tennessee NGV Action Overview

June 26, 2012 – KGA NGV Conference
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ETCleanFuels.org

Reducing foreign oil dependence one fleet at a time.
Agenda

- Who we are, what we do
  - Clean Cities & ETCleanFuels
- Natural gas work in Tennessee
  - Background
  - Forming the TN NGV Task Force
  - Idle reduction: TSE & School-focused Work
  - State-wide review of projects

ETCleanFuels’ 2012 Founding Partners:
Who is ETCleanFuels?

- 10-year old nonprofit in East TN, 501(c)3
  - Full-time staff 2, AmeriCorps members 2, interns 1-2
  - Designated member of U.S. DOE Clean Cities Program (~90)
  - Contract w/ UTK for staffing, office space & equip.

- Focused on transp. sector change: diversify away from oil (use alternatives) or reduce consumption!

- Key metric = # GGEs/year
  (GGE = Gasoline Gallon Equivalents)
Who is ETCleanFuels?

Kristy    Jeff    Grace    (and other volunteers!)
There are ~10 diff. ways coalitions are organized.
What Does ETCleanFuels Do?

#1 – Help move East Tennessee fleets to using alt fuels

✓ Hold quarterly regional open meetings - (Knox, Chatt, TC areas)
✓ Workshops & presentations, adult & K-12 education
✓ Look for partnership opportunities
✓ Collaborate on grants - federal, state, foundation, others
✓ Work to build public access to alternative fuels
✓ Lead/manage multiple state and regional newsletters
TN NGVs Task Force...
A State-wide Collaboration for NGVs

- Partnership of TN Clean Cities coalitions, TN Gas Association & other organizations to advance NG as transportation fuel in the state
- Have several items on 1-year agenda (e.g., education, legislation)
- Working on fleets and public stations throughout the state to make this a viable alternative for Tennessee
Natural Gas Basics

✓ 87-95% methane
✓ Nontoxic, noncorrosive and noncarcinogenic
✓ Existing pipeline distribution system
✓ Extracted from gas and oil wells
✓ Biomethane an option w/ greater energy eff.
✓ Higher ignition temperature – 1000-1100F
Natural Gas Vehicle (NGV) Basics

Dedicated Natural Gas Vehicles
✓ Run on natural gas only
✓ Better performance
✓ Lower emissions

Bi-fuel NGVs
✓ Two fueling systems: gasoline, NG
✓ Fueling Flexibility

Dual fuel NGVs
✓ Run on diesel & NG; HD only
Benefits of Using Natural Gas

- Put your American dollars back into the U.S. – **Energy Security**
- Diversifying our fuel portfolio: *all of the alternative fuels are needed*

- Save money on fuel costs, life-cycle fleet costs – National average fleet savings are currently on the order of $1.25-1.75 less per DGE (NVGAmerica; was as high as $2.50 in 2008!)

- American jobs – converting vehicles, building stations

- Greenhouse gas reductions: 20-30%; a low-C fuel *(that includes methane emissions)*
- Particulate matter reductions: 50-90+%
- Ozone-forming emissions reductions
Benefits of Using Natural Gas

- ~12 million NGVs in use worldwide; ~112k in use on U.S. roads
- HD NGVs are 80-90% lower db level than diesels
- Maintenance costs are =/< gas or diesel
- Comprehensive fuel tank, vehicle and station design & mfg codes and standards
- A growing selection of NGVs from OEMs, small-volume manufacturers
Tennessee NGV Expo – April 4

- April 4, 2012 at War Memorial Building
- Educated legislators and Tennesseans to NGVs as one option for Tennessee fleets
- **ALL ABOUT BRINGING NATURAL GAS TO THE FOREFRONT IN TENNESSEE**
- Can see pix from the event here:

www.TNNGV.org
What is in TN now?

 ✓ Current Fleets: Knoxville Utilities Board, AT&T, MLGW, Scott Appalachian Industries, Piedmont NG, several city/county fleets
 ✓ Current and Planned Stations & Fleets in Tennessee...
Other Items, Opportunities

- **Tennessee Team for NGVs** – Visit [www.TNNGV.org](http://www.TNNGV.org) – we hold monthly, open conference calls that anyone can join in on to ask questions!

- **Southeast CNG Corridor calls** – All southeastern states; great opportunity to hear what is going on in other states, regions in the southeast

- **ETCleanFuels fleet manager meetings, or one-on-one meetings** – Opportunity to delve deeper into CNG topics, questions

- **Much more info, presentations** – From a recent (9/11) Virginia natural gas workshop - [http://www.hrccc.org/get-involved/stakeholder-events/](http://www.hrccc.org/get-involved/stakeholder-events/)
Last but not least, funding...

**EPA Region 4 DERA Grant**
- Green Corridor Development theme for Region 4
- GREAT opportunity to help fleets by covering incremental cost for NGVs while simultaneously building out corridor CNG stations!
- NEED TO GET IN-TOUCH WITH ME ASAP IF INTERESTED! – Takes a long time to put all info together and create a winning proposal

“Clean TN Energy Grant Program”
- Funding of $5k - $250k; cost match can vary
- Transportation-related ideas include: EVs, Hybrids, Idle Reduction technologies, likely fuel efficiency improvement technologies
Talk to me **TODAY** about putting **NATURAL GAS VEHICLEs** in your fleet to save money!

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