

Virginia Clean Cities



Stakeholder Newsletter

2013 Volume 6- November

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Virginia Clean Cities Reaches Completion of Southeast Propane Autogas Development Project

Virginia Clean Cities is proud that 1,189 vehicles have been successfully converted to run on propane autogas through the Southeast Propane Autogas Development Program (SPADP). The Program is supported by funding from the American Recovery and Reinvestment Act (ARRA) and the U.S. Department of Energy's Clean Cities



Program and is administered by the Virginia Department of Mines, Minerals and Energy and Virginia Clean Cities at James Madison University. The conversions completed through SPADP displace about 1.2 million gallons of gasoline and decrease our CO2 footprint by about 6,000 tons each year.

Augusta, Culpeper and Frederick County Sheriff's Offices. In the Richmond area, Groome Transportation's 16 propane vans in the program and Virginia Premier Health Plan's 18 propane vans have helped each save significant dollars at the pump.

The vehicle conversions in this program took fleet vehicles that normally run on gasoline and up-fitted them with the bi-fuel PRINs VSI propane autogas system. This bi-fuel approach is enticing to fleets because the system can run on gasoline if the autogas tank runs low, and often the kit can easily be switched from a retiring vehicle to a newer model with little cost or downtime. The program also implemented fueling stations with each project fleet thanks to the collaboration with partner Alliance AutoGas.

Propane autogas is the most widely used alternative fuel in the world, with more than 17 million autogas vehicles on the road globally. Autogas is cleaner than gasoline and can be around \$1.50 less per gallon; and, with more than 90 percent of the U.S. autogas supply made in America, propane autogas is cost-effective and widely available, now.

"This milestone is the result of years of hard work and collaboration with project partners and Clean Cities Coalitions throughout the country."

"In this project, the full complement of vehicles were converted and are successfully fueling and driving on cleaner and less expensive domestic propane," said Alleyn Harned, Executive Director of Virginia Clean Cities. "This milestone is the result of years of hard work and collaboration with project partners and Clean Cities Coalitions throughout the country."

Across 12 states and 36 fleets in the Southeast, participants are saving significantly on fuel cost and reducing greenhouse gas emissions by running vehicles on American-made propane autogas. Over 47,000 labor hours have been invested since the project's inception in 2009. In the Commonwealth of Virginia alone, the program has helped a variety of public and private fleets convert vehicles to autogas, including Groome Transportation, Virginia Premier Health Plan, the City of Newport News, Spotsylvania County, Red Top Cab, and the

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Visit www.usepropaneautogas.com for more information.

Diamond and Platinum Level Stakeholders



CELEBRATE CLEAN FUELS

November 21st

VACLEANCITIES.ORG/EVENTS

Rally at the Raceway

Virginia Clean Cities would like to invite you to our first annual awards night and fundraiser! We have an amazing program planned for alternative fuel enthusiasts on November 21st from 4-8pm at the Richmond International Raceway Torque Club. Alternative fuel vehicles of all types will drive across the state to converge for our Clean Fuel Awards. Entrepreneurs, fleet managers, and policy makers will come together for a State of the Alternative Fuel Industry Address. The event will also feature ride and drive opportunities, as well as cocktails and hors d'oeuvres. This will be a great opportunity for Virginia Clean Cities stakeholders from across the Commonwealth to come together to celebrate the progress that's been made in the past year, and look ahead to what we can accomplish together in the future.



As a coalition, your support is essential to make everything we do, including this event, a success. Sponsorship of

this event entitles your organization the valuable opportunity to showcase your ideas, brand, and products, and this event will also raise program funds to advance clean alternative fuel programs in Virginia over the next year. Event Sponsorships also include complementary tickets for fleet For more information about sponsorship opportunities, please visit the event page at vacleancities.org/events.

Individual attendees who do not come with a member or sponsor will be asked for contributions of \$50 for a ticket. Coalition stakeholder members receive one complementary \$50 ticket, and will be offered display space on an 8.5x11 table at the reception. Any organization increasing their current Virginia Clean Cities membership level will receive one extra \$50 ticket and will be recognized as expanding stakeholders during the event. Organizations signing on as new VCC stakeholders will be offered a complementary \$50 ticket and will be recognized at the event. You won't want to miss this opportunity to celebrate clean fuels and network with other professionals who are invested in the Commonwealth's transportation future!

For further details, visit the event site at vacleancities.org/events.

Comprehensive Propane Certification List Available Online

If you are thinking about making the move to propane fuel in your fleet, you must be sure that your vehicles are certified for propane conversions. An updated list of propane autogas vehicles certified by the U.S. Environmental Protection Agency, the California Air Resources Board, or both has been posted online at autogasusa.org. The PDF list is compiled and updated periodically by the Propane Education and Research Council (PERC). The information provided includes vehicle make, model, year, engine type, and manufacturer.

James Madison University Installs EV Charger

Recently, James Madison University installed a brand new Eaton 240 volt fast charger at the Integrated Science and Technology building on the university's East Campus. The charger was installed as part of a student project by Dilan Abdullah, a Geographic Science major at the university.

In 2009, Virginia Clean Cities formed a partnership with James Madison University enabling both organizations to leverage resources, current initiatives, and future opportunities. Virginia Clean Cities has an office at James Madison University, and serves as a cornerstone program in the Institute for Energy and Environmental Research (IEER).



GM Introduces CNG Impala

General Motors recently announced that it will be building a Chevrolet Impala sedan for retail and fleet applications that operates on a bi-fuel basis on either gasoline or compressed natural gas. The vehicle will be available as 2015 model-year offering in the summer of 2014. This vehicle will be the very first CNG passenger car offered directly from a major American-owned manufacturer. As CNG becomes more affordable and prevalent, this is yet another example of serious progress in advancing our domestic energy future.

GM and it's Chairman and CEO, Dan Akerson, recognize that a bi-fuel option is an example of using affordable technology to



reduce oil consumption and save consumers money at the pump. "We know that U.S. energy security won't come

from a one-off moonshot," Akerson said. "It will flow from our systematic investment in technology and innovation... our drive to get more from existing energy sources and renewables... our commitment to conservation... and it will be assured by fully and safely exploiting our shale gas reserves."

The vehicle addresses range anxiety issues by featuring a factory-engineered and fully warranted powertrain that switches seamlessly from CNG to gasoline. The CNG tank will have a capacity of 7.7 gasoline-gallon equivalent (GGE), and will be horizontally positioned in the trunk of the vehicle behind the rear seat-back. The powertrain is a 3.6L V6 with port fuel injection and 230 horsepower when running on CNG.

The base vehicle will be built in Oshawa, then the vehicle will be shipped to ROUSH in Plymouth, Michigan for installation of the CNG system. Fleet and retail ordering will begin in March of 2014 with production beginning during the summer.

For more information about CNG and how it can save your fleet money today, visit vacleancities.org.

Consider Propane

The decisions made today give United States businesses the power to become part of the solution tomorrow to reduce air pollution and dependence on foreign oil — and leave the world a better place.

Providing a cleaner, greener approach to transportation, domestic alternative fuels reduce greenhouse gases and carbon monoxide emissions. And since they're domestically produced, they empower American energy security while supporting thousands of green jobs.



As an example, the nation has an abundant supply of propane — so much that it started exporting the energy source

in 2011. Last year, the U.S. exported 2.5 billion gallons. So far in 2013, the United States has exported an average of 250,000 barrels of propane each month. Propane exports are expected to increase to more than 4 billion gallons per year by 2015.

Here are some facts about propane autogas:

- As the leading alternative fuel both in the United States and the world, it ranks as the third most commonly used vehicle fuel behind gasoline and diesel.
- More than 90 percent of the United States propane autogas supply is produced domestically, with an additional 7 percent from our Canadian friends.
- About 19 million vehicles are powered by propane autogas in the world today. But only about 150,000 of those operate in the United States.

[ThyssenKrupp](#) is an example of a business switching to propane autogas. The company's fleet of 54 propane autogas vehicles displaces about 108,000 gallons of gasoline each year. ThyssenKrupp is saving more than \$224,000 per year in fuel costs. ThyssenKrupp Elevator relies on this domestic resource to keep its business running.

The time has come to stop exporting our lower-cost and clean energy source to other countries, and use our own resources at home.

National Plug-In Day



Virginia Clean Cities recently participated in an event as part of National Plug-In Day 2013. VCC brought demo vehicles, including full electric vehicles, as well as plug-in hybrids to Harrisonburg's International Festival. VCC was able to display these vehicles, as well as educate citizens about the benefits that hybrids and EVs offer.

This year, National Plug-In Day consisted of over 90 events, attracting around 36,000 attendees, thousands of test rides, and more than 145 media stories about the events on TV, radio, print, and online.

Fuji Electric Offers \$0 Down, 0% Interest Program

Fuji Electric Corp. of America has announced that they have partnered with Union Bank and Marlin Leasing Corp. to offer their customers convenient financing programs on their DC Quick Charging Stations for electric vehicles. The program offers zero-down, zero-interest financing in an effort to offset the cost of equipment and encourage small businesses to install charging stations at their sites.

The [Financing Program](#) is currently available to U.S. customers, and is designed to offer quick turnaround time on application reviews to avoid project delays. Customers are assigned a single point of contact within Fuji Electric and Marlin Leasing in order to streamline the process and ensure a smooth, hassle-free experience.

Fuji Electric Corp. of America is a wholly owned subsidiary of Fuji Electric Co., Ltd., and has been responsible for sales and distribution of the company's products since 1970. Fuji Electric Co., Ltd. began developing power electronics equipment in 1923, and is a global leader in industrial products ranging from semiconductors, HMIs, power supply, and power generation equipment to AC drives and electric vehicle charging stations.

NGV America Conference



NGV America will be hosting the North American Natural Gas Vehicle Conference & Expo, scheduled

to take place from November 18-21, 2013 in Atlanta, GA. The event will include 22 breakouts featuring fleet operators and other knowledgeable pros sharing their real-life experiences and practical program tips. The conference expo hall is also slated to feature over 100 exhibitors offering the latest in light-, medium-, and heavy-duty vehicles; CNG /LNG fuel station technology, design and turn-key services; fleet lease and finance options; grant writing and program consulting services; Ride-and-Drive - experience NGV performance first-hand. Attendees will also be able to get up-close and hands-on in one of 3 pre-conference technical tours to nearby CNG and LNG fueling stations.

For more information, visit cleanvehicle.org.

NGT News

If you're looking for a consistent flow of information related to alternative fuels and advanced transportation technologies, consider opting-in to receive the free email newsletter from [NGT News - Next-Gen Transportation](#).



We recently partnered with NGT News to give Virginia Clean Cities greater visibility among a wider North American audience. They're highlighting our work, and we're happy to highlight theirs. The ngtnews.com website covers various technologies, including natural gas, propane, electric vehicles and more. It also addresses a wide swath of applications, from passenger vehicles and light-duty trucks to Class 8 tractors.

Their email newsletter costs nothing, and you don't have to worry about spam or having your email address sold. This is all about getting information into interested stakeholders' hands.

Tool Allows Creation of EPA Fuel Economy Labels for Used Cars

As part of the ongoing efforts to increase fuel efficiency, reduce carbon pollution and address climate change, the U.S. Energy Department and the Environmental Protection Agency has released a new label that features EPA fuel economy estimates and CO2 estimates for used vehicles sold in the United States since 1984.

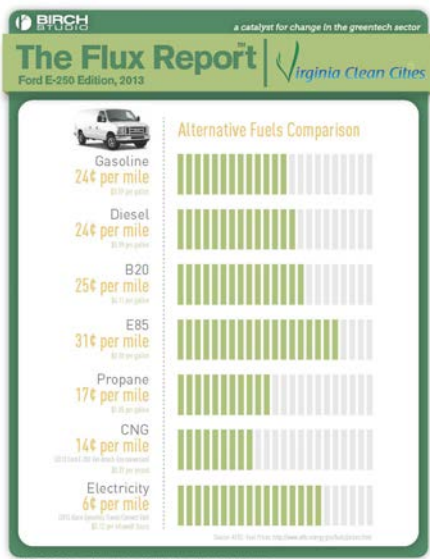
Consumers can create the new label electronically as part of a new tool on FuelEconomy.gov. This electronic graphic can be downloaded and included in online advertisements on the web, while the paper label may be printed and affixed to the vehicle window. As a vehicle's fuel economy changes very little over a typical 15-year life with proper maintenance, the original EPA fuel economy estimate remains the best indicator of a used vehicle's average gas mileage.

The Obama Administration has taken steps to improve the fuel efficiency of vehicles sold in the U.S., establishing the toughest fuel economy standards for passenger vehicles in U.S. history. These standards are expected to save consumers \$1.7 trillion at the pump -- or more than \$8,000 in costs over the lifetime of each vehicle -- and eliminate six billion metric tons of carbon pollution.

All new vehicles now include a comprehensive fuel economy and environmental window sticker from the U.S. Environmental Protection Agency, including passenger vehicles that meet the new fuel economy standards. With the FuelEconomy.gov tool, used vehicle sellers can provide potential buyers with comparable fuel economy information. Last year, over 40 million used cars were sold in the United States -- roughly three times the number of new cars sold in 2012.

Flux Report E-250 Edition

The Flux Report highlights and illustrates interesting and important data pertaining to alternative fuels. It is produced in conjunction with Virginia Clean Cities stakeholder Birch Studio. To download the most recent report, featuring fuel price comparisons across Ford's E-250 line, visit vacleancities.org/reports.



New and Renewing Stakeholders



Fuji Electric offers DC Quick Charging Station for Electric Vehicles that are ideal for commercial applications such as restaurants, hotels, and retail stores, and have been installed in hundreds of locations worldwide.



Wholesome Energy is an affiliate of Wholesome Foods, Inc. Wholesome is now a fabricator and distributor of the Nonox Emulsion Combustion Technology.



Phillips Energy serves as a full energy service provider to commercial and residential customers in the upper Tidewater area of Virginia with specific focus on the Gloucester, Mathews, York County and Williamsburg areas.



TFC Recycling is Virginia's largest residential curbside recycler. Through partnerships and agreements with local governments and public service authorities, TFC provides recycling for over 700,000 households in six of Virginia's largest cities, and more than 4,000 commercial customers in Virginia and North Carolina.



Amerigas is the largest marketer of propane in the country. It is used by over 2 million customers in 50 states for propane services

If you are considering becoming a stakeholder, please visit our membership page at www.vacleancities.org/get-involved/join-us/.

Upcoming Events

- 11/6: LPG Stakeholder Call
- 11/10-12: Virginia Association of Counties Annual Conference, Bath County
- 11/13: CNG Workshop, Roanoke
- 11/21: Rally at the Raceway, Richmond
- 11/18-21: NGV America Conference, Atlanta, GA
- 12/3: CNG Stakeholder Call

Please visit www.vacleancities.org for the latest information about all Virginia Clean Cities events.

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