





Stakeholder Newsletter 2013 Volume 3- May

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Diamond and Platinum Level Stakeholders



























Release of Richmond Electric Vehicle Initiative EV Readiness Plan

The Richmond Electric Vehicle Initiative (REVi) 2 Electric Vehicle Readiness Plan was released in March of 2013 following a period of review by project stakeholders.

A partnership of organizations in the Richmond **3** region established the REVi initiative with the goal of fostering full-scale EV adoption. Richmond is at the forefront of emerging transportation modes and technologies, and is particularly supportive of EVs. This is evident through REVi's pursuit and award of the US Department of Energy Clean Cities' Community Readiness and Planning for Plug-in Electric Vehicles and

Charging Infrastructure project, which has funded the document. This community readiness and planning project is intended to facilitate the adoption of EVs and associated infrastructure in the Richmond region and to serve as an example for other communities. The has resulting work



advanced planning for the Richmond region as an attractive and sustainable market for EVs, established the educational groundwork for EV adoption, and developed a regional strategic plan that identifies and fosters policies to expedite EV infrastructure implementation specific to the Richmond Region. This plan is a critical milestone in moving the Commonwealth one step closer to a balanced energy portfolio for transportation.

The Virginia Department of Mines, Minerals and Energy was the prime award recipient, with Virginia Clean Cities serving as the award administrator and overall program manager. A nine-member Advisory Board focused on program goals while several working groups and technical advisory groups addressed plan development.

The program started with over 50 organizations and increased that number substantially throughout the project. Stakeholder groups participated in forums to help conduct studies and analyses, as well as plan and implement project objectives. Localities represented in REVi include the Town of Ashland, the City of Richmond, and the counties of Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent and Powhatan, as defined by the Richmond Regional Planning District Commission. Other nearby localities also participated in project efforts.

Adoption of EVs is becoming a reality in the throughout the Commonwealth of Virginia, which is well-positioned geographically and economically to participate in this emerging transportation technology. Embracing EV use in Virginia will assist efforts to reduce emissions, increase energy independence, and create jobs in the Commonwealth. Electricity represents a less expensive, cleaner, and locally generated energy source. Virginia's economy is already benefiting from EV deployment. Local companies make batteries, battery components, motors, charging stations, and wireless charging technology. Companies in Virginia also design, manufacture and deploy electric vehicles, and convert vehicles to plug-in hybrids and battery electric vehicles. Virginia entities are researching vehicle conversions, assessing charging reviewing financial strategies, considering roles in jump-starting vehicle adoption and infrastructure deployment to further benefit our local economy.

Richmond is at the forefront of emerging transportation modes and technologies, and is particularly supportive of EVs. For example, Ford Motor Company selected Richmond as one of the nineteen US cities to launch its first electric car, the Focus Electric; and the area has seen many other EVs come to market since then. Dominion Virginia Power is piloting Time-of-Use rates to encourage off-peak EV charging. To view the full plan, visit http:// www.vacleancities.org/reports-2/reports/.

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Public Charging Station Opens at UVA

VCC helped the University of Virginia open a new level-two EV charger-- the first of it's kind in the Charlottesville area-- at the University's Central Grounds Parking Garage on April 26th. The station was funded by grants from the Parents Committee and Student Council's Green Initiatives Funding Tomorrow program.

The charging station, located next to the elevators in the garage, is available for University visitors with electric vehicles. The station will charge one electric vehicle at a time and each customer is limited to four hours. The charger pulls approximately 7.2 kilowatts, and will be partially offset by a solar panel array installed on the roof that will feed electricity back into the garage's electric grid.

Michael Phillips, who heads up VCC's electric vehicle initiatives, was on hand to provide remarks at the opening. "As of this month, the commonwealth of Virginia currently has 2,006 registered electric vehicles," Phillips said. "This is a substantial increase of around 700 percent from just one year ago." Michael joined Allen Groves, UVA associate vice president and dean of students; and student Kyle Smalkowski, who spearheaded the effort, to celebrate the opening.

ACT Expo Offers Clean Cities Discount

The ACT Expo, which will take place from June 24-27 at the Walter E. Washington Convention Center in Washington, D.C., brings together more than 3,000 stakeholders



— fleets, technology companies, OEMs, fuel providers, infrastructure

developers, and policymakers—for a real world look at the rapidly evolving clean transportation industry. Now in its third year, ACT Expo is unrivaled in its ability to provide strong educational content, hands-on access to new technologies, and valuable networking opportunities to progressive transportation professionals. Admission to the exhibit hall is free, and reduced rates are available for fleets and Clean Cities stakeholders. To get your discount code, contact Ryan Cornett at rcornett@vacleancitites.org

VCC Annual Report

Every year, Virginia Clean Cities surveys stakeholders and fleets throughout the Commonwealth to measure the growth of alternative fuels use. This is a task that the Department of Energy asks all Clean Cities coalitions to conduct on a regular basis. In the report, we include information highlighting the total number of alternative fuel vehicles and stations deployed in Virginia, and the overall impact of the use of those alternative fuels on our environment.

This year, Virginia displaced over 9 million gallons of petroleum and prevented the emission of over 69,500 tons of CO2. While we have not reached our goal of realizing our clean energy future, we are well on our way and making progress every year. The numbers in the infograph below represent tangible movement toward energy independence, and reflect well on our stakeholders and their commitment to clean, domestic fuels.

We are already working on our survey for the next annual report, and you can help us reflect Virginia's progress accurately by supporting our efforts to show the good work of fleets here in the Commonwealth!



Membership

Virginia Clean Cities is a nonprofit organization that counts on the support and generosity of its current, renewed, and prospective members fulfill to collaborative mission. Our members and individual supporters help us bolster national energy security; improve public health and air quality across the commonwealth of Virginia; and foster mutually beneficial economic, and research academic, opportunities. Members and stakeholders are the lifeblood of our organization. Please consider joining us today!

For more information on the benefits of membership, levels, and payment options, check out our membership document on page 4 and visit our membership webpage at: http://www.vacleancities.org/get-involved/join-us/



ROUSH CleanTech Update

A new clean, cost-saving alternative fuel vehicle option will help fill the growing demand for heavier duty platforms among fleets. ROUSH CleanTech is now taking orders for the new multipurpose Ford F-650 propane autogas fuel system, with production beginning in October.

"The new ROUSH CleanTech Ford F-650 is yet another example of the versatility of abundant, clean and price-competitive propane autogas," said Roy Willis, president and CEO of the Propane Education & Research Council, which co-funded development of the fuel system. "Backed by a nationwide network of propane retailers offering convenient refueling options, the F-650 expands the portfolio of propane autogas trucks on the road today and provides an economic, environmental and competitive advantage for America's fleets."

Heavier duty vehicles get lower fuel economy than their lighter-duty counterparts, which makes controlling fuel costs a major concern for fleet managers. Historically, domestically produced propane autogas costs up to 40 percent less than gasoline and about 50 percent less than diesel. Federal tax credits provide an additional \$.50 per gallon savings. According to the company, over a 200,000-mile lifecycle, a typical fleet can expect to see fuel cost savings of \$50,000 or more by operating a ROUSH CleanTech propane autogas Ford F-650.

A Tier 1 preferred supplier, ROUSH CleanTech is a Ford Qualified Vehicle Modifier (QVM) manufacturer offering dedicated propane autogas fuel systems. Ford QVM vehicles maintain factory warranty coverage and Ford dealership serviceability. These propane autogas vehicles also deliver the same horsepower, torque and towing as the gasoline fueled models available from Ford.

Visit http://www.roushcleantech.com or email propane@roush.com for more information.



VCC in the News

VCC would like to share with you some exciting news pieces that we have recently been a part of. This edition's news is focused on VCC's involvement with the official opening of Charlottesville's first public EV charging station in addition to a piece on the City of Richmond's CNG refuse trucks with MotorWeek, a project supported by VCC. If you have an idea for a news story or press event, please contact Ryan Cornett at rcornett@vacleancities.org.



<u>Charged up: UVA Unveils C'ville's First</u> <u>Electric Station</u>

The Hook, Charlottesville, VA - May 2

On April 26, the first charging station in Charlottesville was unveiled by UVA and Virginia Clean Cities. The charging station was a project of UVA student Kyle Smalkowski and the group he founded, Sustainable Transportation Advancement and Research Team. The team's initiative and this project stem from recognition of the benefits of electric vehicles. The number of electric vehicles in the Charlottesville area is expected to continue to steadily increase.



UVA Plugs in With Electric Vehicle Station

The Daily Progress, Charlottesville – April 26

The Charlottesville area has about 50 registered electric vehicles, while there are about 2,000 in Virginia. The installation of the first public charging station in Charlottesville is indicative of a growing EV market in the area.



Clean Cities Success: Richmond Refuse

MotorWeek (PBS)

The City of Richmond has acquired 25 CNG refuse trucks along with two CNG fueled Honda Civics. Federal incentives and support from Virginia Clean Cities helped to off-set vehicle costs. City officials say the environmental benefits of CNG are significant including less carbon dioxide emissions than diesel as well as reduced fuel costs.

NGV Motori Offers CNG Diesel Options

Virginia Clean Cities stakeholder NGV Motori, a leader in diesel to natural gas engines, offers fleet managers several options fi they are considering converting to compressed natural gas. NGV Motori offers aftermarket conversions for diesel to CNG. They are the only company that offers two engines approved by the Environmental Protection agency for this conversion and are looking to introduce more approved options in the near future. This is great news for fleet owners with older fleets who are looking to convert as opposed to buying all-new vehicles or engines.

Currently NGV Motori offers approved kits for the MBE 900 engine and the DT 466 International engine for model years 2009 and older. These conversions match OEM mileage per GGE with no loss in performance or torque. NGV Motori will prototype, manufacture, and supply these approved conversion packages. for more information, e-mail sales@ngvus.com or call 1-866-636-2289.



Chevy Cruze Approved for Use of B20

The 2014 Chevrolet Cruze Clean Turbo Diesel will feature an advanced 2.0L clean diesel engine that will offer an estimated 42 MPG highway and is approved for use of 20 percent biodiesel blends.

GM is the first automaker in the United States to approve the use of 20 percent blends in a light-duty diesel passenger sedan. The turbodiesel engine is based on a design already in use in vehicles in the European market, where almost half of all Cruze models feature a diesel engine.



Natural Gas Update

Virginia Clean Cities partnered with Tidewater Fiber Corporation in Chesapeake and Truck Enterprises in Harrisonburg to educate fleets and other interested parties on the subject of Compressed Natural Gas vehicles and infrastructure.

In Chesapeake VCC and TFC partnered to provide training for mechanics from fleets that are currently interested in deploying CNG. The course presented an introduction to operating vehicles using CNG. Mechanics gained an understanding of regulations, component and line fabrications, driver education requirements, and diagnostic testing components. The course combined classroom instruction and theory with the



opportunity to apply concepts through handson activities with TFC's CNG refuse haulers and active time-fill station. At the conclusion of

the course, the mechanics were tested towards gaining a certification to work on CNG vehicles to NFPA 52 standards. "This program was excellent," said Chesapeake fleet manager George Hrichak, "Our team learned a lot, and came away ready to get to work".

VCC partnered with Truck Enterprises to put on an educational workshop focusing on CNG infrastructure and heavy-duty fleet vehicle applications at their facility in Harrisonburg on May 9th. Truck Enterprises is a multi-state dealership group featuring Kenworth, Volvo, Isuzu, and Hino commercial trucks. Kenworth and Volvo currently offer CNG applications for their trucks that present significant ROI. Representatives from vehicle and engine manufacturers spoke to the crowd about the practical application of CNG in heavy duty and class-8 fleets. Representatives from the infrastructure industry, including Virginia Clean Cities stakeholder Clean Energy, spoke about the feasibility and options for natural gas fueling in the Harrisonburg area.

These events were well-attended by interested fleets and owner-operators, infrastructure and vehicle vendors, and local representatives. As natural gas continues to gain momentum as a viable option for increasing our energy security, we will continue to be a resource to connect our stakeholders with the resources they need to get started!

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VCC Staff Updates



VCC is proud to announce three recent additions to our staff! Kaitlin Pomerleau joined Virginia Clean Cities in May as the Administrative and Financial Coordinator. Kaitlin graduated from the University of Wisconsin-Madison with degrees in Political Science and International Studies, and earned her master's degree in Public Administration from the University of Kentucky.

Kaitlin's interest in alternative energy stems from her experience serving as the energy and environmental policy intern in Senator Russ Feingold's Washington, D.C. office. While there, she assisted with policy research and legislative correspondence. Kaitlin relocated to Harrisonburg in May 2012 and is eager to learn more about alternative fuels and to immerse herself in VCC's efforts in the Commonwealth.



Tyler Rines will be joining the team as a Summer Associate at the VCC's JMU office. Tyler is currently enrolled in the Master of Public Administration program at James Madison University with a concentration in public and nonprofit management. Tyler joins us as part of

the internship component of JMU's MPA program. He will be focused on fundraising and development, and is excited to learn more about the world of alternative fuels!



Laura Bryant, an intern with VCC, will be transitioning to a full-time Program Assistant. Laura recently completed her bachelor's degree in Biology with a concentration in Ecology and Environmental Biology from James Madison University. While earning her degrees, Laura interned with Virginia Clean Cities, where she

focused her efforts on idle-reduction initiatives and programmatic support for VCC's portfolio of projects and events.

Autogas and CNG Working Groups

Virginia Clean Cities' has been hosting a series of bi-monthly calls to bring together stakeholders who are interested in connecting and learning more about the state of autogas and compressed natural gas deployment here in the Commonwealth. These calls feature presentations from fleets and industry vendors who have the practical knowledge and experience that can help you make the decision to move your fleet towards a cleaner, cheaper, and domestic fueling option.

The next call in the CNG series will be on June 4th at 2pm and we will be discussing infrastructure deployment. We have a great slate of industry speakers who will talk about the innovative approaches they are taking to deploy CNG here in Virginia and throughout the country. The next autogas call will be on July 9th and will focus on infrastructure and vehicle availability and cost.

If you are interested in joining us on these calls, or want to stay up to date on Virginia Clean Cities educational programs and events, please visit our website at http://www.vacleancities.org/events/, or contact Ryan Cornett at rcornett@vacleancities.org.

New and Renewing Stakeholders



City of Chesapeake is on the forefront of alternative fuels deployment and advocacy in the Commonwealth. Chesapeake also serves as a leader in educating other fleets about the benefits of alternative fuels.



Eco Dual provides conversion systems for heavy-duty diesel trucks to operate on about 60% natural gas. EcoDual's Dual Fuel conversion system is easily installed at your facility or a nearby approved installer.



Greentech Automotive is a US-based automotive manufacturer dedicated to developing and producing environmentally-friendly, energy-efficient vehicles.



James City County is a leader in alternative fuel deployment in the Commonwealth. The county has a commitment to clean, domestic fuels and have chosen to deploy autogas in several applications in their school division and fleet department



ROUSH CleanTech designs, engineers, manufactures, and assembles quality alternative fuel systems for light- and medium-duty Ford trucks and vans.



Rover Cruises in Norfolk offers 2-hour narrated naval base cruises daily from Nauticus, home of the Battleship Wisconsin.

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

Upcoming Events

6/4: CNG Stakeholder Call 6/17-20: VAPT Pupil Transportation Conference, Richmond 6/24-27: ACT Expo, Washington, DC 7/9: LPG Stakeholder Call

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

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