

Stakeholders Update

A Bi-Monthly Newsletter

September & October 2008

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Double-Decker Coaches Cut Emissions, Save Energy and are Cool Too!

Venture Tours, Inc., a family owned business in Hampton Roads, recently became the first to operate a double decker motor coach in Virginia. Not only is it really cool to ride in, but the double-decker coach seats 82 passengers.

According to National Bus Trader magazine August 2008 issue, each double-decker has the potential to remove 82



autos from the highway and offers environmental benefits. Based on calculations using a 79 passenger coach, the double decker will only use .46 gallons of fuel per passenger on similar trips, while

a single-passenger car would use 2.75 gallons, and a 737 airplane uses 3.73 gallons. The double decker also produces seven times less CO₂ than does a passenger car, thus making the coach an

environmentally friendly alternative to driving or flying. The great thing about Venture Tours coaches is that they have the new 2007 emission engines.

"The two new double decker buses we have purchased are really going to make a big impact on how we carry out our business plan" said Jimmy Hall, owner and CEO of Venture Tours, Inc. "One example is we will use them for school daily field trips allowing them to only rent one bus for the day instead of two."

Another way to compare this is to look at what the actual cost per passenger vs. a hybrid vehicle is.

	Hybrid Car	Regular Bus	Double Decker Bus
Gals needed to go 100 miles	1.58 at 63 MPG	15.4 at 6.5 MPG	15.4 at 6.5 MPG
# of passengers	1	57	81
Per pass fuel consumption	1.58	0.27	0.19

Call For Partners!

A half-day seminar was held on September 17, 2008, as a pre-conference workshop of the 2008

Commonwealth of Virginia Energy and Sustainability Conference (COVES) held in Richmond. Visit the hydrogen seminar page of our website to view the presentations from the Richmond event, and for a more detailed description of the project.



Interactive kits are used during hydrogen seminars to demonstrate concepts learned.

Virginia Clean Cities is currently soliciting partners to host a similar hydrogen seminar for local and state decision makers. The goal of this two-year project is to increase a targeted audience's understanding of hydrogen and fuel cells, including early market applications, and to provide specific examples of actions that state and local government leaders can take to support the development and use of hydrogen and fuel cell technology leading to a better understanding of the community benefits that can result.

We have teamed with some of the best experts in the hydrogen and fuel cell field including Catherine Padro of Los Alamos National Laboratory, the National Energy Education Project staff, and experts from Virginia Tech, James Madison University, and the University of Maryland, to help teach an outstanding curriculum. Additionally, MotorWeek is working with us to produce video segments that will be used as a teaching tool during the seminar, and also as a resource available to state and local officials to help convey the message to a wider audience. Other parts of the project include developing technology profiles for use as fact sheets to illustrate hydrogen and fuel cell energy sources.

Our target audience is decision makers and leaders in government, commerce and community: local and state agencies, leaders and staff involved in energy, environment, transportation, first response, emergency preparedness, code enforcement, conservation, communications, homeland security.

The project is supported through a Department of Energy grant to the Virginia Department of Mines, Minerals and Energy and administered by Virginia Clean Cities. If your organization is interested in working with us to host a seminar, market the seminars to your stakeholders, provide information for a technology profile, or be involved in the production of the video

segment, please contact us at info@hrccc.org.

ASTM Publishes New Biodiesel Blend Specs

After a meticulous process, ASTM International has officially published the biodiesel blend specifications that have been long awaited by engine companies, vehicle manufacturers, pipeline operators, fleets, biodiesel producers, petroleum distributors, and consumers. Included in the new blend specifications, that are set on a performance basis for a diesel engine, are:

- ASTM D975-08a, Specification for Diesel Fuel Oils* — used for on- and off-road diesel applications; revised to include requirements for up to 5 percent biodiesel.
- ASTM D396-08b, Specification for Fuel Oils* — used for home heating and boiler applications; revised to include requirements for up to 5 percent biodiesel.
- ASTM D7467-08, Specification for Diesel Fuel Oil, Biodiesel Blend (B6 to 20)* — a completely new specification that covers finished fuel blends of between 6 (B6) and 20 (B20) percent biodiesel for on- and off-road diesel engine use.

The current ASTM standard for biodiesel, ASTM D6751, was also updated.

Fall Fix Now Available - New Look and Content

The completely redesigned Fall 2008 Edition of the *Southeastern Fuels Fix* is now available for download online at the Southeastern Alternative Fuels Task Force website <http://www.sealtfuels.org/>.

Advertising information may be obtained by contacting Chelsea Jenkins. All advertising revenues go to help the SE Clean Cities coalitions maintain their activities which are focused on putting alternative fuel and efficient transportation technologies to work on the the streets of the Southeastern U.S.



Inside the Fall Fix:

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- ▶ Small is Beautiful
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- ▶ Clean Cities Set to Celebrate 15 Years of Success
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- ▶ E85 Blasts Off in East TN
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E85 Infrastructure Project Sees Most Growth in Maryland

On September 26, 2008, Mid-Atlantic Petroleum Properties LLC opened its seventh Capital Beltway E85 dispenser at a Chevron station in Germantown, Maryland. The

Left: Carlos Horcasitas (MAPP) and Douglas Durante (Clean Fuels Development Coalition).

Bottom: Ribbon cutting at grand opening of the Germantown Chevron E85 pump.

location offers VE85®, VeraSun Energy's branded

E85, a blend of 85 percent ethanol and 15 percent gasoline. VE85® was offered for \$1.85 for the first 185 minutes of sale, and local politicians, area dignitaries, Co-Director of DOE Clean Cities, and Carlos Horcasitas, CEO of Mid-Atlantic Petroleum Properties LLC (MAPP) provided remarks.

Mr. Horcasitas' brief remarks captured the essence of why it is important to begin using domestic sources of energy where available, while improving technology and availability in order to improve energy, environmental, and economic security. Mr. Horcasitas quoted an Energy Intelligence Week Briefing during his speech, and described how the United States will be importing approximately 440 billion dollars of crude oil and finished products in 2008, equating to approximately 10 million barrels of imported oil and oil products every single day or about 3.65 billion barrels per year. He reminded the audience, "we are actually borrowing money from countries

that sell us oil... to buy their oil! There goes our homeland security!"

Mid-Atlantic employees believe that their "duty is to do anything and everything they can to help reduce our dependence on foreign oil, but also to help lower harmful greenhouse gas emissions," according to Mr. Horcasitas. To that end, 6 company facilities with seven dispensers and a total of 13 fueling positions are selling at a rate that should reach approximately one million gallons of VE85® per year. MAPP is "fully committed to continue to expand our E-85 retailing efforts to include an additional 17 locations within a year and hopefully all of our 85 locations within the next three years." That should translate into more than 20 million gallons per year in E85 sales as more flexible fuel vehicles enter the market.

MAPP has received funding for each of the seven E85 dispensers at six separate locations (including the Germantown station) through a U.S. Department of Energy grant that Virginia Clean Cities administers for the Virginia Department of Mines, Minerals, and Energy on behalf of VA, MD, and DC. The Maryland Energy

Administration (MEA) also provided grant money to the 5 MAPP locations in Maryland. Other support for the Germantown station grand opening and a radio advertising campaign to benefit all of the new E85 stations was provided by the Maryland Department of Agriculture, the Maryland Grain Producers Utilization Board, the Clean Fuels Development Coalition, the Flexible Fuels Vehicle Club of America and public and private companies, including VeraSun, General Motors and Fitzgerald Auto Malls.

Odyssey Day Promotes Cleaner Transportation Choices

DOE's Acting Assistant Secretary, John Mizroch, the National Alternative Fuels Training Consortium, and Clean Cities partners from Virginia, Maryland, and Washington, D.C., launched the 2008 kickoff of the Clean Cities National Alternative Fuel

Over 20 cleaner transportation choices already implemented in surrounding localities were showcased at the 2008 Odyssey Day held at DOE headquarters in DC.



Vehicle Day Odyssey. Also known as "Odyssey Day," the event is dedicated to promoting petroleum-free choices in transportation. The September 30 event was the first of more than 80 alternative fuel vehicle (AFV) events in over 60 locations that occurred across the nation in October. The event is coordinated by the National Alternative Fuels Training Consortium (NAFTC). Virginia Clean Cities hosted a site in 2004 and 2006, and participated in the DOE kickoff event on September 30. There were about 20 different alternative fuel vehicles on display, a media event, and table-top displays. If you are interested in helping to host an Odyssey event in 2010, contact us.



USPS E85 delivery vehicle and T3 3-wheel vehicle



Arlington County Transit (ART) CNG shuttle bus



WMATA CNG articulated bus

CLIMATE ACTION BLUEPRINT

We think many of our stakeholders will be interested in learning more about a climate action blueprint shepherded by Climate Communities, a national coalition of cities and counties that is educating federal policy makers about the essential role of local governments in addressing climate change and promoting a strong local-federal partnership to reduce greenhouse gas (GHG) emissions.

Our reasoning is partly selfish: the Clean Cities program depends in large part on the participation and leadership of local governments to complete our mission, which is to support local decisions to deploy vehicles and technologies that conserve petroleum and encourage the use of alternative transportation fuels and higher vehicle fuel efficiency. Two results of mission success are more healthful air and lower GHG emissions.

Local governments increasingly are interested in reducing carbon dioxide and other GHG emissions, from mobile and stationary sources. Local governments have been leading the charge even longer for other benefits derived from cleaner vehicles, like improved energy security and

a stronger economy based on greater use of sustainable domestic resources. Local governments could do even more with more resources, which can be provided by better educated federal policy makers.

This September, a group of more than 40 city and county officials met at a Local Government Climate Leaders Retreat, hosted by Climate Communities and ICLEI USA and supported by the Rockefeller Brothers Fund, to begin developing a set of policy recommendations for the new President and incoming Congress that empower local government climate action. The final recommendations – Empowering Local Government Climate Action: Blueprint for the New President and 111th Congress – focus on promoting green buildings, increasing public transit and cleaner vehicles and fuels, fostering community-scale renewables, building green infrastructure, creating green jobs and businesses, and adapting to the impacts of climate change.

The Blueprint will be officially released this December. When it is released, Climate Communities hopes to have the endorsement of more than 500 local elected leaders. The deadline to endorse the blueprint is November 28, 2008. To learn more or to endorse the Blueprint, visit: <http://www.climatecommunities.us/endorseblueprint.html>

Climate Communities plans an ambitious agenda for 2009 when the new President and Congress take office. Specifically, in the coming months the organization will:

- Continue to support full funding for the Energy Efficiency Community Block Grants (EECBG) Program, championed by the U.S. Conference of Mayors, as the Congress considers economic stimulus legislation.
- Ensure that Congress enacts *Climate Communities'* proposal for a \$15 million climate change demonstration pilot program, and work with EPA to develop implementation guidelines.
- Arrange for members of *Climate Communities* to meet with the Presidential transition team in December following the election to provide a briefing on the

blueprint and demonstrate the critical climate change role of local governments.

- Organize a Local Government Climate Protection Summit in Washington, DC in Spring 2009, where *Climate Communities* members can meet with key Administration and Agency decision makers.

Climate Communities and ICLEI USA are hosting a series of free recurring conference calls focused on opportunities to ensure that emerging federal climate change policies provide new funding and assistance for local efforts to reduce greenhouse gas emissions. There is no need to register for these calls. To get the call in number and password, visit: www.climatecommunities.us/conferencecall.html

The topics for upcoming calls will include:

Nov. 7: What Do the Election Results Mean for Federal Climate Change Action?

Nov. 14: Analysis of the Dingell-Boucher Climate Discussion Draft Legislation and the Prospects for Cap-and-Trade Legislation Next Year

Nov. 21: Seeking Resources for Local Climate Actions through Transportation Reauthorization

Dec. 5: Green Jobs and Climate Prosperity: The Role of Local Governments

Dec. 12: Federal Resource Opportunities for Green and Efficient Buildings

E85 Available to Fleets in Colonial Heights

The Virginia Department of Transportation is considering the addition of E85 refueling at a site in Colonial Heights. VDOT is restricted from actively “marketing” fuel, but it is not a problem for the department to make the alternative fuel available to localities that request access to the E85 dispenser. Contact us at info@hrccc.org if your local government fleet would like to have access to this E85 dispenser either because you currently have some Flex Fuel Vehicles that can use high blends of ethanol or because you would like to plan to purchase FFVs. Here is the address of the facility: VDOT Richmond District Headquarters; 2430 Pine Forest Drive; Colonial Heights VA 23834.

Empowering Local Government Climate Action

Blueprint for the New President and 111th Congress

Now is the time for local government officials to sign onto this Climate Action Blueprint – we aim to have 500 local officials from across America endorse this action agenda by December 2008. This Blueprint will be officially released with major events in December 2008 and beyond.

Visit our web sites for more information or to sign onto the Blueprint.
www.climatecommunities.us
www.iclei.usa.org





Local Leaders Help Save a Dragon

The Steering Committee for the Dragon Run Special Area Management Plan decided early on that it would be advantageous to brand biodiesel as a way to help save the dragon run by supporting the local industry of farming. So came “Dragon Power,” which is now running in King and Queen County School buses in addition to Gloucester County School buses.

The photo above was taken during the fourth annual “Dragon Run Day” held at Thousand Trails Campground in Gloucester County on October 11, 2008. The backdrop is a Gloucester County school bus that has a DOC installed and has been using biodiesel for its entire lifetime thanks to funding from the Virginia Department of Environmental Quality and an EPA Clean School Bus grant.

Virginia Clean Cities was a sponsor of Dragon Run Day, and helped coordinate a

media event that was attended by Virginia Delegate Harvey Morgan (98th District). Delegate Morgan (pictured above) provided remarks commending the successes of the Clean School Bus Project to date, including installation of 70 diesel oxidation catalysts (DOC) on older school buses and biodiesel use by Gloucester and King & Queen County Schools. He also spoke about Gloucester County Public Schools proactive thinking and current investigation into being the first in Virginia to operate a clean burning propane school bus. Delegate Morgan helped present Virginia Clean Cities’ “I Saved a Dragon” Awards to Roger Kelly and Gloucester County Public Schools, John Phillips of Phillips Oil & Gas, and Dennis Sulick of the Virginia Biodiesel Refinery for their leadership and support. Here is a quick profile of award recipients:

★ Gloucester County Public Schools (accepted by Roger Kelly, Fleet Administrator): GCPS was the first school to adopt the partnership agreement and action plan in the Middle Peninsula pledging to promote the use

of biodiesel. Roger Kelly is one of the original supporters of biodiesel in the state, and has been using biodiesel in his fleet since 2006. Even during uncertain times, Roger was steadfast in his support of the cleaner, domestic fuel and often attends meetings held by Virginia Clean Cities to speak about his experience, and how he worked through challenges.

★ Dennis Sulick, Virginia Biodiesel Refinery: Denny is the plant manager for VBR, and remains one of the most committed stakeholders Virginia Clean Cities has worked with on biodiesel education efforts. He often spends Saturdays at festivals like Dragon Run Day sharing his enthusiasm.

★ John Phillips, Phillips Oil & Gas: John Phillips is the owner of Phillips Oil & Gas and still finds the time to visit Clean Cities stakeholder meetings to answer questions about propane use as a fuel. He’s been a huge help during the Clean School Bus project as we have researched deploying propane powered school buses.



Algae Farms - New Way of Farming?

Only a few ounces of biodiesel are being created each day in this 1-acre algal farm setup but Jes Sprouse, CEO of Algal Farms, Inc., hopes to expand his ponds and algae production to about 200 acres over the next two years and to 2,000 acres within six years in order to produce as much as 3,000 gallons of biodiesel per acre, or about 6 million gallons per year.

CNG/LNG Fuel & Infrastructure Tax Credits Extended

During the final days of the 110th Congress, the House and Senate passed and the President signed legislation that extends the CNG/LNG fuel tax credit from 09/30/2009 to 12/31/2009 and the infrastructure tax credit from 12/31/2009 to 12/31/2010. Both provisions were included in the \$700 billion Emergency Economic Stabilization Act (HR 1424). The credits are now lined up with several other tax credits that are considered for extension every year, such as AMT relief, the R&D tax credits, and some personal ones as well. The bill also extended the biodiesel tax credits for one year, and they will now be considered at the

same time as the natural gas fuel credit.

First U.S. Carbon Sale Raises \$40 Million

According to officials of the Regional Greenhouse Gas Initiative, the country's first cap-and-trade auction for greenhouse gas reduction raised nearly \$40 million for Northeastern states to spend on renewable energy technologies and energy-efficiency programs. In the absence of a federal government program to cap the amount of carbon dioxide that power plants produce, 10 Northeastern states established the initiative to set their own limits and force all fossil fuel plants to buy allowances to cover excess emissions. The initiative

could be a model for efforts to reduce emissions and stem global warming in other areas – or nationally.

In the sealed online auction Thursday, energy, financial and environmental organizations paid \$3.07 per ton of excess emissions. All 12.5 million carbon allowances were sold, with most of the bidders being power generators. Maine, Vermont, Connecticut, Massachusetts, Rhode Island and Maryland participated. The other members of the initiative -- New York, New Jersey, Delaware and New Hampshire -- did not participate but plan to join in future auctions. The next quarterly auction is set for Dec. 17.

The earnings from the auction will go to the six participating states based on the number of allowances they had. Maryland will receive \$16.4 million; Massachusetts, \$13.3 million; Connecticut, \$4.2 million; Maine, \$2.7 million; Rhode Island, \$1.3 million, and Vermont, \$621,000, according to the initiative.

Algae Part of our New Energy Future?

Algal Farms Inc. is a private-public venture that seeks to build on research at Old Dominion University into alternative energy. Its purpose: determine if algae can be grown, harvested and converted into

biodiesel fuel, as well as a byproduct fertilizer, in sufficient amounts to make a decent profit. The experimental farm that grows a single, slimy commodity is located outside of Spring Grove and includes a series of tanks that hold algae and lined "raceways" where the algae grows. Governor Kaine attended a ribbon cutting ceremony on September 24, 2008 to speak about the importance of growing a domestic energy economy, and right here in Virginia.



Governor Kaine speaking at ribbon cutting ceremony for Algal Farms.

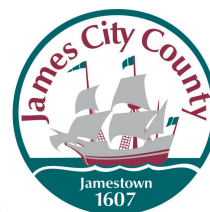
STAKEHOLDER SPOTLIGHT

Clean Cities is a government-industry partnership designed to reduce petroleum consumption in the transportation sector by advancing the use of alternative fuels and vehicles, idle reduction technologies, hybrid electric vehicles, fuel blends, and fuel economy. Virginia Clean Cities is one of almost 90 coalitions across the U.S. that help meet the objectives of improving air quality, developing regional economic opportunities, and reducing the use of imported petroleum.

Sponsors & Strategic Partners



Coalition Stakeholders



JOIN US! Visit <http://www.hrccc.org/joinus.html>

Calendar of Upcoming Events

Alternative Fuel and Advanced Technology Vehicle Related Events

Clean Cities ASTM Webcast on new B6-B20 Specification

November 4, 2008

Email cjenkins@hrccc.org for more information

Climate Communities Call: What Do the Election Results Mean for Federal Climate Change Action?

November 7, 2008

www.climatecommunities.us/conferencecall.html

Green Living & Energy Expo

November 7-8, 2008

Roanoke, Virginia

www.aecp.org/Expo/overview.shtml

Educational Tour of Nutrient Reduction Technologies for Shenandoah Valley Farmers and the Bay

November 11, 2008

Dayton, Virginia

Contact cjenkins@hrccc.org for a copy of the flyer

Propane Engine Fuel Summit

November 12-14, 2008

Detroit, Michigan

www.propaneenginefuelsummit.com/

Climate Communities Call: Analysis of the Dingell-Boucher Climate Discussion Draft Legislation and the Prospects for Cap-and-Trade Legislation Next Year

November 14, 2008

www.climatecommunities.us/conferencecall.html

Infocast's 3rd Annual Cellulosic Ethanol Summit

Coral Gables, FL

November 17-19, 2008

www.infocastinc.com/index.php/conference/cell08

Climate Communities Call: Seeking Resources for Local Climate Actions through Transportation Reauthorization

November 21, 2008

www.climatecommunities.us/conferencecall.html

WEBINAR: Natural Gas Converts: The Process for Upfitting Vehicles to Run on Natural Gas

December 2, 2008

www.afvi.org/webinarNGseries.html

Electric Drive Transportation Association Conference & Expo

December 2-4, 2008

Washington DC Convention Center

<http://edta.orchidsuites.net/sites/conf2008/>

Climate Communities Call: Green Jobs and Climate Prosperity: The Role of Local Governments

December 5, 2008

www.climatecommunities.us/conferencecall.html

WEBINAR: All Pumped Up: Infrastructure for Natural Gas Fleets

December 9, 2008

www.afvi.org/webinarNGseries.html

WEBINAR: All Pumped Up: Infrastructure for Natural Gas Fleets

December 9, 2008

www.afvi.org/webinarNGseries.html

Alabama Agriculture Energy Conference

December 10, 2008

www.nrmidi.auburn.edu/bio/ADECA/conference/2008/index.php

WEBINAR: Other People's Money: Taking Advantage of Credits & Incentives

December 11, 2008

www.afvi.org/webinarNGseries.html

Climate Communities Call: Federal Resource Opportunities for Green and Efficient Buildings

December 12, 2008

www.climatecommunities.us/conferencecall.html

12th Annual LMOP Conference and Project Expo

January 12-14, 2009

Baltimore, MD

http://www.epa.gov/lmop/docs/12th_conf_agenda.pdf

2009 National Biodiesel Conference & Expo

February 1-4, 2009

Moscone Center West, San Francisco, CA

www.biodieselconference.org/2009/default.asp

Energy Independence Days 2009

March 2-3, 2009

Washington, DC

Email cjenkins@hrccc.org for more information

TAFMA Meeting Hosted by Clean Cities (open to stakeholders)

March 18, 2009

Contact cjenkins@hrccc.org

Alternative Fuels & Vehicles Conference & Expo 2009

April 19-22, 2009

Orlando, FL

www.afv2009.com/

If there is an event our readers may enjoy, please send an email to Chelsea at cjenkins@hrccc.org so we can add the event to our calendar and our website.