

## PRCC GAZETTE

*"DRIVING THE WAY TOWARD ENERGY INDEPENDENCE"*

Volume 4, Issue 7

March 2015

### **O Ring partners with GAIN Clean Fuel to broaden access to CNG**

GAIN® Clean Fuel, a division of U.S. Gain, has partnered with compressed natural gas (CNG) provider and station builder, "O" Ring CNG Fuel Systems, LP and its affiliates. The partnership will co-brand "O" Ring CNG's four CNG stations as "O" Ring CNG / GAIN® Clean Fuel and incorporate them into GAIN Clean Fuel's nationwide infrastructure of CNG stations.

The four existing "O" Ring CNG stations are located in Pennsylvania. Two sites are along Interstate 80—one in Brookville and the other in DuBois. The third is on Interstate 70 in Bentleyville – just south of Pittsburgh, and the fourth on Route 119 in Punxsutawney. In addition, "O" Ring CNG has several more CNG stations slated for completion in 2015 and 2016.

"This is a great opportunity for "O" Ring CNG and GAIN Clean Fuel," said **Bill Renz, general manager for U.S. Gain.**

#### *Issue Contributors:*

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"The "O" Ring CNG sites are strategically located along significant carrier routes and, with GAIN® Clean Fuel's agreements with carriers operating in the Northeast, we are able to provide additional access to GAIN CNG for our partner fleets. It's truly a win-win for partner fleets. It's truly a win-win for everyone."

Through this partnership, GAIN® Clean Fuel will have a total of 43 stations in operation or under construction throughout the United States. The partnership also enables "O" Ring CNG to leverage GAIN® Clean Fuel's CNG stations for use with its partner carriers. In return, GAIN will benefit from "O" Ring CNG's presence as a regionally trusted, award-winning industry leader in the alternative fuel market and its extensive existing and planned infrastructure expansion within the Northeast.



Bob Beatty "O" Ring and bill Pens GAIN



## CALENDAR OF EVENTS

### BOARD OF DIRECTOR MEETING SCHEDULE FOR 2015

The PRCC Board of Directors meeting schedule is as follows:

April 1, 2015

July 1, 2015

October 7, 2015

All meetings will be at :

Five Star Development Inc.

1501 Preble Ave.

Pittsburgh, PA 15233

Starting at 9:30 AM

### Upcoming Events

**EV/PHEV Petroleum Reduction Technology Workshop** – April 17, 2015

**Bio-Diesel Petroleum Reduction Technology Workshop** – August 21, 2015

**6<sup>th</sup> Annual Odyssey Day** – October 16, 2015

### Training Classes

The PRCC is working with the National Alternative Fuels Training Consortium and the Community College of Allegheny County – West Hills Center to conduct training classes. These classes are free to Sustaining Members

**Introduction to Hybrid Electric Vehicles** – April 7,8,14,15 – 6:30pm to 10:30pm ATE-136

**Servicing Hybrid Electric Vehicles** – May 5,6,12,13 – 6:30pm to 10:30pm ATE-137

**CNG Fuel Inspector Prep Class** – April 21,23 - 6:30pm to 10:30pm (2 evenings) WH85



To register for these classes go to

<https://ccaccentral.ccac.edu/WebAdvisor/WebAdvisor?TOKENIDX=9996794264&SS=2&APP=ST&CONSTITUENCY=WBST>

or contact Bob Koch at 412-788-7378 or [rkoch@ccac.edu](mailto:rkoch@ccac.edu)



## **2015 Tri-State Alternative Fueling Expo & Conference**

By: Kristie Kubovic, Director of Communications, [Shale Media Group](#)  
Edited By: Mindy Gattner, Editor, Shale Media Group  
Photos By: Shale Media Group

Themed “Success Stories,” the second annual Tri-State Alternative Fueling Expo & Conference was held on February 24-26, 2015 at the Monroeville Convention Center in Monroeville, PA. The event blended the expanding alternative fuels trade with the transportation and shale oil and gas industries.

The expo showcased exhibitors from across the alternative fuels spectrum, including liquefied petroleum gas (LPG) (also known as propane), compressed natural gas (CNG), and hybrid options. These included heavy-, medium-, and light-duty trucks; cars; buses; and motorized equipment that run on alternative fuels. In addition, fueling infrastructure for CNG and propane was on display.

The centerpiece of the expo floor was a CNG fueling station, which after the event, was bound for Bentleyville, PA. It, along with a propane fueling station, will form Energy from U.S. 1 (EFUS), a CNG and propane refueling station that is currently being built and will be one of only a handful across southwestern Pennsylvania

**ProGas, Inc.**, a propane distributor in Pennsylvania, West Virginia, and Ohio, services residential and commercial accounts along with propane motor fuel, known as autogas. Ronald Schramm, President, ProGas, explained, “Propane is an alternative fuel that is easy to store, has a high energy content, produces low emissions by contributing up to 25% less greenhouse gas emissions [as compared to gasoline], and is non-toxic and presents no threat to soil, surface water, or groundwater.”



This year with the help of the Propane Educational and Research Council, all of the propane vendors had a section in the exhibit hall and grouped their displays together. “Having everything grouped together allowed the attendees the opportunity to walk over to specific equipment or machinery and discuss it with the exhibitors. Also, in the past, we have showcased the use of propane as a motor fuel in light- and medium-duty vehicles. We are still doing that, but this year we are also emphasizing the use of propane in small engines, such as lawnmowers, weed trimmers, and marine outboard engines,” relayed Schramm.

Another exhibitor, Beemac Trucking, had a CNG powered tractor on display. The nationwide, flat-bed trucking company is headquartered in Ambridge, PA. In 2014, Beemac completed building a public CNG station in Ambridge to fuel 20 previously purchased original equipment manufacturer (OEM) CNG Volvo tractors. “We were the ideal candidate for the CNG conversion due to the size, distance traveled and amount of gas consumed by our trucks,” explained Dave Dudo, Senior Vice President of Operations, [Beemac Trucking](#)

Universities also became involved with the expo as well. Both Penn State’s and West Virginia University’s Advanced Vehicle Teams were on hand to discuss the EcoCAR 3 challenge, which is in conjuncture with the Department of Energy. Donghee Lee, Communications Manager, Penn State Advanced Vehicle Team, explained, “EcoCAR 3 is a four-year collegiate advanced vehicle technology engineering competition. It is the third in a series. Sixteen teams from the US and Canada participate in this automotive engineering competition to design and develop a hybrid Chevrolet Camaro.”



To read fuel article

<http://shalemediagroup.com/2015/03/15/2015-tri-state-alternative-fueling-expo-conference/>



Additional exhibitors included: Cobey Energy; CP Energy; Cummins Bridgeway; Dearing Compressor & Pump Co.; FYDA Freightliner and Energy Solutions; George I. Reitz & Sons, Inc.; Ozinga Energy; and VFG Energy Leasing & Finance.

The keynote speakers for the conference portion of the event included the Honorable Rich Fitzgerald, Allegheny County Chief Executive, and Toby Fauver, Deputy Secretary for Multimodal Transportation, Pennsylvania Department of Transportation. Additional sessions were held with presentations from representatives from Giant Eagle, GSP Marketing, Pittsburgh Region Clean Cities, REV LNG, SSP CNG Plus, and Waste Management.

During the Natural Gas and Propane Petroleum Reduction Technology Workshop, Tim Hooker, National Sales Manager, GSP Marketing, addressed the safety of CNG and propane and pointed out that there is a multitude of safety technology for both. "With all of the precautionary measures built into the tanks, they are superior to gas tanks," relayed Hooker, who also pointed out that propane powered school buses are exceptionally built in order to sustain crashes. Additionally, the auto ignition temperature is beneficially high for both CNG and propane in comparison to other common fuels. For example, CNG's auto ignition temperature is 1070°, while propane's is 890°. On the flip side, gasoline's is 475°, while diesel's is only 420°.



Keynote Speaker Allegheny County Executive Rich Fitzgerald

## **Food Industry Favors Autogas for Fleet**

With the help of their local Clean Cities Coalitions, powerhouses in the foodservice industry like Alpha Baking, H&S Bakery and Frito-Lay are filling the streets with more than just the aroma of fresh-baked goods. They are cleaning up the air in the communities they serve by fueling their fleet with clean-burning, domestically produced propane autogas.

H&S Bakery, a long-standing provider of hearth-baked goods, operates 16 propane autogas fueled ROUSH CleanTech Ford F-59 delivery trucks in Baltimore, Md., thanks in part to a Maryland Clean Cities Coalition grant from the Maryland Energy Administration. Over its lifetime, each of these clean-burning trucks will eliminate about 117,000 pounds of carbon dioxide emissions from the company's carbon footprint.

The company, which is already in the process of purchasing 30 more propane autogas vehicles in the next year, has installed a private refueling station and aims to operate about 10 percent of their current 600-vehicle fleet with propane autogas.

"We want our customers and community to know that we are investing in them and working hard to meet our sustainability goals," said Chuck Paterakis, vice president of transportation and logistics for H&S Baking. "With propane autogas, we're doing just that with a domestically produced fuel that lowers emissions across our delivery area."

Alpha Baking Company, Inc., a national bakery products distributor, operates 22 ROUSH CleanTech propane autogas powered Ford E-450 bread delivery trucks in the Chicago-metro area to meet its operational performance needs and factory warranty without a decrease in engine horsepower or torque. The alternative fuel trucks will emit about 2 million fewer pounds of carbon dioxide over their lifetime.

"We're doing this because it's the right thing to do," stated Bob McGuire, Alpha's vice president and director of logistics.

“These propane-powered bread delivery trucks will emit fewer emissions and our company has been extremely progressive in doing the right thing for the environment.”

Frito Lay was among the first customer of a liquid propane autogas fuel system for the Ford E-350 dual rear wheel cutaway chassis back in 2011. Since then, the national convenient foods producer has added 45 propane-powered vans to its Ohio fleet, as part of an effort towards achieving a 50 percent reduction in greenhouse gas emissions with its sales and delivery fleet vehicles.

“The support and assistance of Clean Fuels Ohio and Clean Cities has really helped to take this effort very seriously,” Glenn Reynolds, fleet manager for the company’s mid-America region, told the *Hudson Hub Times*.

“There’s a long line of progressive companies in the bakery industry choosing to fuel with American made and environmentally friendly propane autogas for a reason,” said Todd Mouw, vice president of sales and marketing for ROUSH CleanTech. “Propane autogas provides an undeniable economic, environmental and competitive advantage for industry leaders all across the country.”



## CP Industries Expands On-board Storage

CP Industries, Western-Pennsylvanian based manufacturer of seamless high-pressure gas containment solutions has expanded its Type 4 on-board storage with large diameter cylinders. The newest addition to the company’s product line is an offering of 25.5” diameter cylinders. Available in 60”, 80”, 90” and 120” lengths, these newest sizes are an ideal solution to meet the demands of increased vehicle range and capacity. Offered in both neck and strap mounted designs, the cylinders are manufactured to maintain high durability with safe operation of utmost concern.

“This is an exciting time for CP Industries as we grow our brand with new Type 4 cylinder designs” says Nicole Rebyanski, CPI’s Sr. Product Manager of Alternative Fuels. “We can provide customers with a more complete on-board storage solution that continues to be safe, reliable and cost effective.” The Type 4 corrosion-free seamless liners are wrapped with Carbon Fiber and a substantial protective Fiberglass overlay. The glass overlay covers the entire cylinder’s surface, not just the domes, providing significant impact resistance. The stainless steel, 3-piece, serviceable boss is a unique and exclusive feature offered only by CP Industries. Bringing together the latest technologies with a long-standing tradition of excellence, CP Industries creates the ultimate combination of industrial and natural gas solutions in the industry today. All of the Type IV cylinders are proudly made in the USA in McKeesport, PA. For more information visit [www.cp-industries.com](http://www.cp-industries.com), or contact Nicole Rebyanski, Sr. Product Manager- Alternative Fuels at 412-664-6637 or [nicole.rebyanski@cp-industries.com](mailto:nicole.rebyanski@cp-industries.com).



## **A Roadblock for the Important Alternative Fuels Industry**

By: Kristie Kubovic, Director of Communications, Shale Media Group  
Edited By: Mindy Gattner, Editor, Shale Media Group  
Images Provided By: Shale Media Group



With plummeting prices at the pump, many consumers are rejoicing, while those in the shale oil and gas industry are concerned. OPEC's (Organization of the Petroleum Exporting Countries) refusal to cut its output and change its production strategy, has led to a freefall in gasoline and diesel prices and the lowest prices in years. Consumers may be saving money when it comes to filling up their tank, but odds are they're losing money in their 401Ks and worse yet, may be getting laid off or losing their jobs all together.

Looking at the headlines in the past few weeks of Shale Energy Business Briefing alone, headlines, such as "Crude Oil Falls Below \$45/Bbl as OPEC Continues Playing Hardball" have led to other headlines, such as:

- "\$2 Trillion in Oil Projects at Risk Due to Plunging Prices"
- "Baker Hughes Cutting Thousands of Jobs in Response to Slumping Crude Prices"
- "Exploration and Production Spending in North America Could Fall 30% or More in 2015"
- "Working Rig Count Suffers Biggest Drop in Nearly Quarter Century"

With the domestic abundance and growth of the shale oil and gas industry in the United States, the alternative fuels industry (compressed natural gas (CNG) and propane in particular) started to pick up speed in terms of garnering more attention and popularity. CNG is cleaner than petroleum-based fuel and helps reduce emissions from greenhouse gases. Plus, CNG is safe, quiet, powerful,

efficient, and offers America energy security, since its source comes from areas like the Marcellus and Utica Shale plays, a region right under the feet of millions of Americans.



These are some of the reasons that we've seen locally-based, national companies move towards CNG. For example, Beemac Trucking, a flat-bed trucking company headquartered in Ambridge, PA, with offices nationwide, purchased 20 Volvo tractors that are original equipment manufacturer (OEM) CNG and built a public CNG station in Ambridge to fuel those trucks. Additionally, one of the largest flatbed carriers in the country, PGT Trucking Inc., unveiled five new CNG trucks at their Monaca, PA headquarters in January.

In addition, CNG is affordable and provides price stability, consistently sitting around \$2.00/GGE (gas gallon equivalent), while its counterparts, gasoline and diesel, often vary dramatically and are very dependent upon international affairs, particularly in the Middle East. It's likely a safe bet that the price of gasoline and diesel won't remain this low forever, while the price of CNG looks to remain stable due to this nation's abundant shale oil and gas reserves found throughout the country's various shale formations

However, the CNG and propane industries are beginning to hit a roadblock due to the decrease in gasoline prices. "When the price of gasoline does go back up, the US won't be able to react as quickly, [since many of this country's shale oil and gas producers are cutting back due to the lower gas prices]. This opportunity [our current situation] reinforces how unstable the world is. OPEC came out and admitted to playing with the market. While this is a well-calculated move on their part, it is economic war, and we're losing. If we don't respond properly, we could be doomed to repeat history once again," expressed Beatty.





Ironically, the US is playing “catch up” to the rest of the world in terms of CNG infrastructure. In fact, the US is far behind other countries that began utilizing CNG for transportation decades ago. Third world countries, such as Pakistan and India, have 2.8 and 1.5 million natural gas vehicles, respectively, in use. Beatty explained, “CNG is the fuel of choice for these oil-poor countries, mainly because they don’t have the luxury of paying for ‘expensive’ gasoline.”

Beatty also noted the number of CNG vehicles in this country is growing daily, but pointed out, “The rest of the world uses CNG. Iran, which is the size of New Jersey, has 3.5 million CNG vehicles. The U.S. has in excess of 300,000 CNG vehicles. Natural gas is our opportunity. It offers energy independence and it is green.”

As for propane, many of the vehicles going that route aren’t personal vehicles, but rather fleet vehicles, such as school buses, shuttles, and police vehicles. ProGas, Inc. is a propane distributor in western Pennsylvania, West Virginia, and Ohio, that services residential and commercial accounts along with propane motor fuel, known as AutoGas.

Ronald Schramm, President, ProGas, shares his thoughts, “The fabric of this country is being tested again by the Middle East. They play on our short term mentality. We’ve become a people that want instant gratification. Now we have lower gasoline and diesel prices, so let’s go out and buy the big SUV’s, RV’s, and so on. Are our memories that short? We forgot the oil embargo, long lines at the pumps, price increases that created economic problems for this country, and the many lives lost by American soldiers to keep oil flowing. We need to wake up and get off the merry-go-round.”

“We as a people and a country have to think beyond today. We have to act and think like our industrial leaders before us. You don’t build a business or nation on short term goals. They must be long term goals. We cannot allow falling oil prices to stop the progress we’ve made in the alternative fuels market. To secure our energy independence, we need to keep moving forward and continue drilling and developing more natural gas and natural gas liquid products (propane). We need to develop the infrastructure and make it available to the consumers and fleet operators,” continued Schramm.

Schramm then added, “CNG and propane AutoGas are leading the growth in the alternative fuels market. Even with falling gasoline and diesel prices, propane AutoGas continues to offer cost advantages over conventional fuels. Price is a key factor, but not the only factor. Fleet managers look at overall performance, efficiency, and productivity. Propane provides all of that and more. With the Marcellus Shale and all the shale plays throughout our country we need to stay the course.”



Energy from U.S. 1 L.P. is a CNG and propane refueling station currently being built in Bentleyville, PA, which will be one of a handful across southwestern Pennsylvania. Currently the Alternative Fuels Data Center places about 800 CNG refueling stations across this country. Tejas Gosai, CEO, Energy from U.S. 1, explained, “This country needs to strategize. The momentum is going now for CNG vehicles and stations in this country. We’re going to have to make this switch one day. Now is the right time. We can’t let this temporary drop in gasoline prices pause or cease our momentum.”

This is why events such as the upcoming Tri-State Alternative Fueling Expo & Conference are important to the shale oil and gas industry, the transportation industry, and America in general. The event is scheduled for February 24-26, 2015 and will be held at the Monroeville Convention Center in Monroeville, PA.

Themed “Success Stories,” the event in its second year ties together two vital industries: the shale oil and gas industry with the growing alternative fuels trade and showcases exhibitors from not only the CNG and propane realms of the industry, but includes all types of alternative fuels and energy companies. The event showcases alternative fuel trucks, new technology, various equipment, a transportable CNG fueling station, and propane and liquefied petroleum gas (LPG) dispensing stations.

The conference will include keynote speakers Toby Fauver, Deputy Secretary for Multimodal Transportation, Pennsylvania Department of Transportation, and Rich Fitzgerald, Allegheny County Chief Executive. Additional sessions will include presentations from representatives from Giant Eagle, Waste Management, “O”Ring CNG Fueling Systems, and Pittsburgh Region Clean Cities, among others.

At last year’s event, Rick Price, Executive Director, Pittsburgh Region Clean Cities, remarked, “There are a lot of misnomers about alternative fuel and technology. I like to give the facts and background. The event in itself brought so many different varieties of vendors to one area for the purpose of alternative fuels.” Dan Weaver, Director of Public Outreach, Pennsylvania Independent Oil and Gas Association (PIOGA), added, “It is important to see what is going on in the industry, especially on the end user side. There needs to be places or outlets for the product to go. It is fantastic to see new markets opening up at events like this.”

Only time will tell what exact effects this temporary drop in gasoline prices will have on America’s shale oil and gas industry, transportation industry, and the country in general. For more on the second annual Tri-State Alternative Fueling Expo & Conference, visit <http://alternativefuelingexpo.com/>.

## **IT'S ALL ABOUT THE PRICE DELTA** By Todd

Mouw – Roush Cleantech

Have you been considering alternative fuel vehicles for your fleet, but are now thinking twice with gasoline prices under \$3.00 per gallon? Don’t let the sudden drop in prices fool you – there is still a large advantage to switching to domestic fuels like propane autogas. (Note: Autogas is the internationally recognized term for propane when used in on-road engines.)

**It’s all about the price delta.** Our recent research shows that with an average \$1.80 fuel cost difference between propane and diesel, customers operating vehicles over a 12-year lifespan will see a payback in three years or less. Take a look at what some of our customers are saving with propane autogas.

Bend-La Pine Schools in Oregon has experienced a 57 percent reduction in fuel costs with their fleet of autogas powered school buses. They currently pay \$1.31 per gallon for autogas versus \$3.11 for diesel. The City of Santa Ana, California, reports an average of \$1.50 per gallon for autogas throughout their local area. Chicago’s GO Airport Express is saving almost 50 percent on fuel costs since switching to autogas. And, the list goes on — all around the nation.

Although gasoline and diesel prices have fallen recently, propane prices will continue to cost less than conventional fuels because of the large scale production occurring across the nation. In fact, the Energy Information Administration predicts propane prices will be 24 percent lower than last year.

Add the bottom line savings to the emissions reduction and domestic fuel source benefits of autogas, and you can see why hundreds of private and public organizations have made the switch. Interested to learn how much you could be saving? Use our Savings Calculator or the new Propane Education & Research Council’s calculator to compute your potential savings.



### **PRCC Executive Director is recognized by DOE**

The Pittsburgh Region Clean Cities Executive Director Rick Price received Special Recognition for his delivery of the Petroleum Reduction Technology training workshops at the Tri-State Alternative Fueling Conference & Expo in February 2014. The award was announced at the 2014 DOE Annual Coordinators Meeting at Director Rick Price received Special Recognition for his delivery of the Petroleum Reduction Technology training workshops at the Tri-State Alternative Fueling Conference & Expo in February 2014. The award was announced at the 2014 DOE Annual Coordinators Meeting at the National Renewable Energy Laboratory in Golden Colorado by Mid-Atlantic Regional Manager Darren Stevenson.



### **PRCC Holds Stakeholder Meeting**

The Pittsburgh Region Clean cities held its' semi-annual Stakeholder Meeting on March 18, 2015 at the Community College of Allegheny County –West Hills Center. The meeting drew about 30 stakeholders who heard about many of the things that PRCC is doing, like hold alternative fuels training classes, grants they have won, petroleum reductions and increased use of alternative fuels, and upcoming events and workshops. Each stakeholder had an opportunity to tell all attendees what their company's interests were and what they would like to see more of from PRCC. Many great ideas were expressed and PRCC plans to try and incorporate them into their annual plan.

### **Upper St Clair Gets New Hybrid**

Upper St Clair Township has been exploring the potential use of alternative fuels and technologies for a number of years. The Pittsburgh Region Clean Cities has arranged for the township to test drive different types of alternative fueled vehicles. In fact the township was involved in a PRCC grant from the Heinz Foundation ("A Vehicle for Change") exploring the possible use of compressed natural gas in township vehicles. They had decided the first alternative fuel vehicle would be a conventional hybrid vehicle according to Ron Sarrick, Building, Grounds, and Sustainability Administrator.



### **PRCC to Hold Petroleum Reduction Workshops for EV/PHEV and Bio-Fuels**

The Pittsburgh Region Clean Cities has scheduled two Petroleum Reduction Technology Workshops for EV/PHEV (April 17, 2015) and a Bio-Fuels PRT Workshop (August 21, 2015). Both workshops will be held at the Community College of Allegheny County – West Hills Center, 1000 McKee Road, Oakdale, PA 15071. The workshops will be from 10:00am to 1:00pm.

Each participant will be given facts sheets about the specific technologies of each workshop. A chance to interact with people who already are using a specific fuel and or technology and see some of the alternative fueled vehicles. To register for the EV/PHEV PRT Workshop go to [https://docs.google.com/forms/d/1pGyk7uxYeZRgeXPht5mWi7SSCriDMQZ0\\_y2li5ES9Zc/viewform?c=0&w=1](https://docs.google.com/forms/d/1pGyk7uxYeZRgeXPht5mWi7SSCriDMQZ0_y2li5ES9Zc/viewform?c=0&w=1)

## **Port Authority of Allegheny County focuses on CNG bus fleet for rapid transit line**

**February 27, 2015.** Buses that will run along (Pennsylvania) Port Authority of Allegheny County's proposed bus rapid-transit line from Downtown to Oakland will be fueled by natural gas, the agency's board chairman said.

Chairman Bob Hurley announced at a Port Authority meeting that he established a committee that will study locations for a new Port Authority garage that could serve compressed natural gas buses, a project that could cost \$70 million to \$80 million. The committee will consist of fellow board members Rob Kania and Tom Donatelli as well as industry professionals.

"The goal of the committee is to assist the staff in the design and location for a new garage with the idea of primarily serving CNG buses," Hurley said. "When we build the BRT line, the vehicles on that line will be CNG buses."

Hurley and Port Authority CEO Ellen McLean said natural gas buses or garages are at least three to four years away. "We think in the long term there will be a cost-savings and environmental value," Hurley said. "We're sitting in a market where natural gas is being produced and we ought to be supporting that economic driver."

Current Port Authority buses run on diesel along with 32 electric-hybrids.

## **Obama Orders Federal Agencies to Cut Fleet Emissions**

President Barack Obama has issued an executive order requiring the federal government to reduce its direct greenhouse-gas (GHG) emissions by at least 40% over the next decade. Although the comprehensive order calls for federal agencies to use more renewable energy, become more energy efficient, and reduce water intensity, it also mandates that their fleets cut per-mile GHG emissions by 30% by fiscal year (FY) 2025 and incorporate more zero-emission vehicles (ZEVs) and plug-in hybrid electric vehicles (PHEVs). To see full article go to

[http://www.ngtnews.com/e107\\_plugins/content/content.php?content.10582#utm\\_medium=email&utm\\_source=LNH+03-24-2015&utm\\_campaign=NGT+Latest+News+Headlines](http://www.ngtnews.com/e107_plugins/content/content.php?content.10582#utm_medium=email&utm_source=LNH+03-24-2015&utm_campaign=NGT+Latest+News+Headlines)

***Question of the Month:*** What are the major electric vehicle supply equipment (EVSE) networks, and how can plug-in electric vehicle (PEV) drivers access their stations? What are the costs associated with each network?

### **Answer:**

Most PEV charging occurs at home, but for those who have a need to charge at a public location, it's important to understand available charging networks. While EVSE networks and charging infrastructure are frequently evolving, the major networks currently include AeroVironment, Blink, ChargePoint, GE WattStation Connect, Greenlots SKY, NRG eVgo, SemaConnect, and Tesla. Each network has a unique model, with the most common approaches being monthly subscriptions, pay-as-you-go (i.e., pay per charge), and free (free to charge and no subscription fee required).

To determine which charging networks have EVSE along your regular routes and close to your frequent destinations, use the Alternative Fuels Data Center (AFDC) Station Locator (<http://www.afdc.energy.gov/locator/stations/>) and the Plan a Route function (<http://www.afdc.energy.gov/locator/stations/route/>). Select a station, click "more details," and refer to the "electric charging network" field. Please note that many public EVSE are not networked and do not require specific access cards.

### **EVSE Networks**

For detailed information on each charging network, see below.

- **AeroVironment**  
([http://evsolutions.avinc.com/services/subscribe\\_network/](http://evsolutions.avinc.com/services/subscribe_network/))
- **Access:** Monthly subscription, pay-as-you-go. Unlimited monthly access is provided for a monthly rate, or you may pay-as-you-go. To subscribe, call the company or fill out a form online. You will receive a key fob in the mail, which is needed to initiate a charging session.
- **Contact:** 888-332-2148.

A one-time activation fee of \$15 is required for new subscribers.

- **Contact:** 888-332-2148,  
[evscs@avinc.com](mailto:evscs@avinc.com)

**Blink (Car Charging Group)**  
([www.blinknetwork.com](http://www.blinknetwork.com))

- **Access:** *Pay-as-you-go*. Start by registering a credit card with a Blink account. There are no required annual or monthly membership fees, and no minimum credit card balance. Once registered, you will receive an “InCard” and can initiate a charge using the card. Guests can also initiate a charge with Blink’s mobile application.
- **Contact:** 888-998-2546,  
[support@blinknetwork.com](mailto:support@blinknetwork.com)

**ChargePoint** ([www.chargepoint.com](http://www.chargepoint.com))

- **Access:** *Pay-as-you-go, free*. Sign up for free by submitting your credit card information via the website. You will receive an access card in the mail. If you initiate a session at a networked station that requires a fee, ChargePoint will assess an initial deposit of \$25. Stations can be activated by using the ChargePoint card or your registered credit card. Users who do not have a ChargePoint card can use the EVSE by calling the number provided below, which is also listed on the EVSE
- **Contact:** 888-758-4389,  
[support@chargepoint.com](mailto:support@chargepoint.com)

**GE WattStation Connect**  
([www.gewattstation.com/connect/](http://www.gewattstation.com/connect/))

- **Access:** *Pay-as-you-go*. To start charging with WattStation Connect, register and log in through the website. You will then be asked to link your account to PayPal for payment, and download the WattStation Connect mobile application.
- **Contact:** 855-443-3873,  
[wattstation.support@ge.com](mailto:wattstation.support@ge.com)

**Greenlots SKY** ([www.greenlots.com](http://www.greenlots.com))

- **Access:** *Monthly subscription, pay-as-you-go*. To start charging with the Greenlots SKY network, download the Greenlots mobile application, which will allow you to search for stations, view real-time status and pricing, and choose between a prepaid monthly subscription or pay-as-you-go.
- **Contact:** 888-751-8650,  
[support@greenlots.com](mailto:support@greenlots.com)

**NRG eVgo** ([www.nrgevgo.com/](http://www.nrgevgo.com/))

- **Access:** *Monthly subscription, pay-as-you-go*. NRG eVgo provides multiple charging network plan options, including a monthly subscription and an option to pay-as-you-go. To subscribe, visit the website and sign up for a charging plan in your area.
- **Contact:** 855-509-5581,  
[support@evgonetwork.com](mailto:support@evgonetwork.com)

**SemaConnect** ([www.semaconnect.com/](http://www.semaconnect.com/))

- **Access:** *Pay-as-you-go*. To sign up, log on to the SemaConnect website and open a new account with a \$20 balance charged to a major credit card. You will receive a “SemaCharge Pass” radio-frequency identification (RFID) card that can be used to initiate charging at any SemaConnect location. SemaConnect also offers mobile payments via its smartphone application, toll-free number, or via a QR code scan.
- **Contact:** 800-663-5633

**Tesla** ([www.teslamotors.com/supercharger](http://www.teslamotors.com/supercharger))

- **Access:** *Free*. Tesla Superchargers do not require an access card; Tesla Model S owners can drive up and plug in. The chargers are compatible with Model S vehicles equipped with the 85 or 60 kilowatt-hour (kWh) battery pack that have been configured to use Superchargers. *Note that other PEV models cannot access Tesla Superchargers.*
- **Contact:** 877-79-TESLA



# PRCC Sustainable Members



## PRCC Membership Levels Information

Membership Options: Individual- \$150 Nonprofit- \$300 Bronze- \$500 Silver- \$1000 Gold- \$2000 Platinum/Sponsor- \$4000+

To find out more on membership levels go to:

[http://www.pgh-cleancities.org/wordpress/?page\\_id=367](http://www.pgh-cleancities.org/wordpress/?page_id=367)



The table below provides an overview of the access type and costs associated with each network.

	Network Access	Cost
<b>AeroVironment</b>	Monthly subscription;	\$19.99 per month
	Pay-as-you-go	\$4.00-\$7.50 per charge
<b>Blink</b>	Pay-as-you-go	\$0.39-\$0.79 per kWh <i>OR</i>
		\$6.99-\$9.99 per charge
<b>ChargePoint</b>	Pay-as-you-go;	\$25 initial fee
	Free	Cost per charge varies
<b>GE WattStation Connect</b>	Pay-as-you-go	Cost per charge varies
<b>Greenlots SKY</b>	Monthly subscription;	Subscription costs and cost per charge vary
	Pay-as-you-go	
<b>NRG eVgo</b>	Monthly subscription;	Cost per charge varies by region
	Pay-as-you-go	
<b>SemaConnect</b>	Pay-as-you-go	\$20 initial fee
		Cost per charge varies
<b>Tesla</b>	Free	N/A



## UNITED WE STAND – SEPTEMBER 11, 2001

Our deepest sympathy and heartfelt thoughts go out to our fellow Americans during this time of crises. We will continue to stand strong and united in our support of the men and women protecting our country's interests.

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*Please come visit our PRCC Web Site:*

*[www.pgh-cleancities.org](http://www.pgh-cleancities.org)*

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## . Contribute Your News!

In trying to get the news of successes we have in our area. Please feel free to contact Rick Price, Executive Director/Coordinator at 412-735-4114 or at [coordinator@pgh-cleancities.org](mailto:coordinator@pgh-cleancities.org)..

Learn more about Clean Cities at [cleancities.energy.gov](http://cleancities.energy.gov), and learn how to get involved with the Pittsburgh Region Clean Cities coalition at [www.pgh-cleancities.org](http://www.pgh-cleancities.org)

