PITTSBURGH REGION CLEAN CITIES

PRCC GAZETTE

"DRIVING THE WAY TOWARD ENERGY INDEPENDENCE"

Volume 5, Issue 9 May 2018

Office of Governor of State of Pennsylvania: Governor Wolf Announces $118 Million Volkswagen Settlement to Fund New Air Pollution Reduction Program
05/10/2018 | 02:33pm EDT

Harrisburg, PA - Governor Tom Wolf announced the roll out of new grant and rebate programs to improve air quality in Pennsylvania funded by the $118 million settlement with Volkswagen Group of America, Pennsylvania's share of the settlement for allegations of cheating on U.S. Environmental Protection Agency (EPA) emissions tests.

The new initiative, Driving PA Forward, is aimed at permanently reducing nitrogen oxide (NOx) emissions statewide by as much as 27,700 tons overall by accelerating the replacement of older, polluting diesel engines with cleaner technologies.

'Clean air is the cornerstone of a clean, healthy environment,' said Governor Wolf. 'When Volkswagen cheated on its emissions equipment, it undermined that cornerstone. Today, through our new Driving PA Forward initiative, we will begin to remedy that by driving the transition towards advanced zero-emission and low-emission vehicles and accelerating the build-out of infrastructure necessary to support the next generation of transportation options.'

'We encourage businesses to switch to cleaner alternatives and be the driving force behind cleaner air in the commonwealth,' said Department of Environmental Protection Secretary Patrick McDonnell. 'Driving PA Forward will provide grants and rebates to upgrade and replace vehicles with cleaner alternatives, particularly in areas of the commonwealth with the poorest air quality This isn't just school buses and tractor-trailers; projects to replace or upgrade tugboats, forklifts, delivery trucks, and many more vehicles and equipment will be eligible for funding.'

Emissions from diesel engines in trucks, buses, forklifts, and other transportation equipment account for over 25 percent of the NOx emissions in Pennsylvania. These emissions contribute to ground-level ozone, leading to poorer air quality and health impacts, especially for children and the elderly.'

Diesel emissions also include fine particulate matter (PM 2.5), which can lead to health problems such as asthma and worsen medical issues such as heart and lung disease and emphysema.

Issue Contributors:
Rick Price, Executive Director/Coordinator, PRCC

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Calendar of Events

BOARD OF DIRECTOR MEETING SCHEDULE FOR 2017

The PRCC Board of Directors meeting schedule is as follows:

July 11, 2018

October 3, 2018

All meetings will be at:

Five Star Development Inc.

1501 Preble Ave.

Pittsburgh, PA 15233

Starting at 9:30 AM

Upcoming Events

Odyssey Day –October 12, 2018 – CCAC – West Hills Center

EV Educational & Ride-n-Drive Events - TBD

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

Light Duty Natural Gas Vehicles
ATE-115-WH85
1. CEU
TBD

Introduction to Hybrid Electric Vehicles Training
ATE-136-WH85
1.0 CEU
TBD

CNG Tank Inspector Prep for Certification
ATE-601-WH85
TBD

Servicing Hybrid Electric Vehicles
ATE-137-WH85
TBD

Propane Autogas Training

May 21-23, 2018 ***Click here to register NOW! Size of class is limited***

To register for these classes contact Bob Koch at 412-788-7378 or rkoch@ccac.edu

'Reducing smog and particle pollution is essential to maintaining healthy communities,' said Department of Health Secretary Rachel Levine. 'More than 380,000 children in Pennsylvania have asthma - something that is exacerbated by air pollution from diesel emissions. These grants and rebates will cut down on those emissions and help everyone breathe a little easier.'

Eight grant and rebate programs will be available over the next five years, with as much as $39 million available for disbursement in year one. Programs will be rolled out throughout 2018.

The Driving PA Forward grant and rebate programs include:

- **Clean Diesel Grants**: Competitive grants for diesel emission reduction projects, including but not limited to exhaust controls, engine upgrades, and engine and vehicle replacement. Eligible vehicles, engines, and equipment under this program include many of those eligible under other programs listed here, but also include those used in construction, agriculture, mining and other industries. Applications for these grants will be available this month.

- **Electric Vehicle Fast Charging or Hydrogen Fuel Cell Equipment Grants:**Competitive grants for the acquisition, installation, operation, and maintenance of electric vehicle (EV) fast charging equipment and hydrogen fuel cell vehicle supply equipment. Grant applications will be accepted beginning later this summer.

- **Level 2 Light-Duty Vehicle Charging Equipment Rebates:** Rebates for Level 2 Electric Vehicle Charging equipment for both public and non-public use to charge electric vehicles. Rebates will be available beginning later this summer.

- **Heavy-Duty Truck and Transit Bus Grants**: Competitive grants for Class 8 trucks and transit buses. Model year 1992-2009 or older vehicles will be eligible for replacement or repowering with new diesel, electric, or alternative fuel engines.. Grant applications will be accepted starting later this summer

- **Medium-Duty Truck, School and Shuttle Bus, Port Drayage Truck Rebates:** Rebates for class 4-7 trucks and port drayage trucks model year 1992-2009 and for school and shuttle buses older than model year 2009. Rebates will be available beginning later this summer.

- **Shore Power Systems for Ocean-Going Vessel Grants:** Competitive grants for upgrades to ports to enable compatible ocean-going vessels to plug in and rely on electric power while in port, rather than running diesel engines. Grant applications will be accepted beginning later this year.

- **Forklift, Airport Ground Support Equipment, and Port Cargo Handling Equipment Grants:** Competitive grants to repower or replace vehicles used in transit and transportation to fully electric models to reduce air pollution at ports, airports, and factories. Grant applications will be accepted beginning later this year.

Ferry, Tugboat, and Freight Switcher Grants: Competitive grants to repower or replace eligible ferries, tugboats, and freight switcher locomotives. Grant applications will be accepted beginning later this year. More information on the grant and rebate programs, including program guidelines and application instructions for open grant and rebate programs, can be found at www.dep.pa.gov/drivePAforward.

CLICK HERE for Audio, Video and Photos

The Pittsburgh Post-Gazette, Tribune-Review, WESA FM, WTAE TV, and KDKA Radio were in attendance. Radio PA and the Associated Press also covered the announcement.

http://pittsburgh.cbslocal.com/audio/kdka-afternoon-news/ KDKA Joe Sisto

http://www.post-gazette.com/news/health/2018/05/10/Pennsylvania-VW-volkswagen-settlement-air-pollution-emissions-tests/stories/201805100079?utm_campaign=Echobox&utm_medium=Social&utm_source=Facebook#link_time=1525975320 Post Gazette Article

To go to DRIVEPAFORWARD website http://www.dep.pa.gov/Business/Air/Volkswagen/Pages/default.aspx

Alternative Fuel Incentive Grant Program (AFIG)

Wolf Administration Allocates $5 Million to Support Alternative Fuel Transportation Initiatives -

05/4/2018

CONTACT:
Neil Shader, DEP
717-787-1323

Harrisburg, PA – The Pennsylvania Department of Environmental Protection (DEP) is accepting grant applications for innovative, advanced fuel, and vehicle technology projects that will result in cleaner advanced alternative transportation within the commonwealth. DEP's Alternative Fuels Incentive Grant (AFIG) Program offers funding for the purchase and use of alternative fuels and alternative fuel vehicles. Grant applications will be accepted beginning May 4, 2018 through July 13, 2018.

"Transportation grants such as these provide support for schools and other entities to cut down on their carbon footprints and improve the air we breathe, all while saving money," said Patrick McDonnell, DEP Secretary. "It is important to look to all of the vehicles on the road, so this year we are giving priority to projects for emergency vehicles."

New this year, AFIG will give priority to projects that include the use of the funded vehicles by emergency personnel in emergency responses, rescues, and evacuations.

The AFIG Program can assist school districts, municipal authorities, nonprofits, corporations, LLCs, and partnerships registered to do business in Pennsylvania in offsetting the costs of implementing alternative fuel using transportation projects. The AFIG Program is funded by annual gross receipts tax on utilities.

DEP is offering grants in the following project categories:

- Vehicle Retrofit or Purchase – To offset the incremental cost of purchasing alternative fuel vehicles or retrofitting existing vehicles to operate on alternative fuels.
- Alternative Fuel Refueling Infrastructure – To assist in the costs to purchase and install refueling equipment for fleet and workplace, home or intermediary refueling.
- Innovative Technology – To support research, training, development, and demonstration of new alternative fuels and alternative fuel vehicles.

DEP is instituting changes to the grants awarded for vehicle purchase and retrofit projects:

- For new CNG, LNG, biodiesel vehicles using a blend greater than B20, Electric Vehicles with a battery system capacity equal to or greater than 20 kWh, and Hydrogen Fuel Cell vehicles, applicants may request 100% of the incremental cost of the vehicle up to $40,000 per vehicle.

- For Electric Vehicles with a battery system capacity between 10 kWh and 20kWh, applicants may request 75 percent of the incremental cost of the vehicle up to $20,000 per vehicle.

- For Existing CNG, LNG, and biodiesel vehicles using a blend of B20 or greater, and Electric Vehicles with a battery system capacity of less than 10 kWh, applicants may request 50 percent of the incremental cost up to $20,000 per vehicle.

The application period opens on May 4, 2018 at 4:00 PM and will remain open throughout 2018. DEP will collect and review applications received by 4:00 PM on Friday, July 13, 2018 and 4:00 PM on Friday, December 14, 2018.

For the first time the AFIG program will be submitted online through the Electronic Single Application system at www.esa.dced.state.pa.us. Hardcopy applications will not be accepted.

More information can be found at: www.dep.pa.gov/Citizens/GrantsLoansRebates/Alternative-Fuels-Incentive-Grant/Pages/default.aspx

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

U.S. EPA Diesel Emissions Reductions Act (DERA) Grants Available

The U.S. Environmental Protection Agency anticipates awarding approximately $40 million in competitive grant funding for the Diesel Emissions Reductions Act (DERA) Clean Diesel Funding Assistance Program. The program is soliciting proposals nationwide for projects that achieve significant reductions in diesel emissions in terms of tons of pollution produced and exposure, particularly from fleets operating in areas designated as having poor air quality. Proposals must be submitted to the U.S. EPA no later than 11:59 p.m. (Eastern) June 12, 2018.
Eligible diesel vehicles, engines and equipment include:

- School buses
- Class 5-Class 8 heavy-duty highway vehicles
- Locomotive engines
- Marine engines
- Nonroad engines, equipment or vehicles used in construction, handling of cargo (including at ports or airports), agriculture, mining or energy production (including stationary generators and pumps)

To see grant go to https://www.epa.gov/cleandiesel/clean-diesel-national-grants

Department of Energy (DOE)
Office of Energy Efficiency and Renewable Energy (EERE)
Fiscal Year 2018 Advanced Vehicle Technologies Research Funding Opportunity Announcement (FOA)
Funding Opportunity Announcement (FOA) Number: DE-FOA-0001919

AOI Number	Area of Interest (AOI)
Batteries & Electrification	
1a	Developing Low-Cobalt Active Cathode Materials for Next-generation Li-ion Batteries
1b	Plug-In Electric Drive Vehicle Extreme Fast Charging Research
1c	Electric Vehicle Charging Infrastructure Cybersecurity
Materials	
2a	Predictive Modeling of Corrosion in Dissimilar Material Joints
2b	Modeling of Corrosion/Oxidation of Materials in High-Temperature Engines
Technology Integration	
3a	High Performance Computing for Transportation Hubs
3b	First/Last Mile for People/Goods Movement
3c	System-Level Data for Energy Efficient Mobility
3d	Fuel Efficient Platooning
3e	Multi-Unit Dwelling and Curbside Residential Charging Infrastructure Innovations
3f	Open Topic
Off-Road R&D	
4a	Energy Efficient Commercial Off-Road Vehicles
Co-Optimization of Engines & Fuels	
5a	Multi-Mode Optimized Fuel/Engine System Development
5b	Bioblendstocks to Optimize Mixing Controlled Compression Ignition Engines

To see FOA go to https://www.grants.gov/web/grants/view-opportunity.html?oppId=304527

Pa. Utility Partners with Uber to Promote EV Adoption

March 26, 2018 - Press Release

Duquesne Light Company (DLC) and Uber announced a strategic partnership which aims to increase the number of electric vehicles (EVs) on the road in the greater Pittsburgh area. The goal of the partnership is to raise awareness of EVs and promote their benefits for Uber driver-partners, DLC customers, and the entire Pittsburgh region.

"DLC has made meaningful strides over the past year to help shape Pittsburgh's energy future," said Rich Riazzi, President and CEO of Duquesne Light Company. "Our partnership with Uber will amplify DLC's efforts in educating our customers on the benefits of EV adoption and encourage more drivers to make this impactful change. Working with companies like Uber on initiatives like this exemplify DLC's strategic transformation into a next generation energy company."

Along with growing the number of EV miles driven by Uber driver-partners, DLC and Uber also plan to increase the number of direct current (DC) fast-charging stations throughout the greater Pittsburgh area, helping alleviate range anxiety amongst EV drivers.

"Finding ways to unlock more shared, electric and automated mobility is critical for cities to realize a more sustainable future," said Adam Gromis, Uber's Global Lead on Sustainability. **"**We're excited to be working with partners in Pittsburgh in all three areas**.** Through this new partnership with DLC, we can start to address this challenge at the local level and join the charge to promote the delivery of more EV-miles throughout Pittsburgh and beyond."

Other activities being considered include collaborating with a local non-profit to create educational materials that participating drivers can share with their riders to increase awareness of the benefits of EV adoption and working with local car dealerships to offer promotions on EVs.

Over the past year, DLC has undergone a transformation into a next generation energy company, which has involved the modernization of its infrastructure, implementation of enhanced technology, and launch of its official EV initiative. As part of this strategy, DLC has committed to allocating at least five percent of its annual fleet purchases to electric vehicles. DLC's current electric fleet includes nine compact passenger EVs, four plug-in hybrid bucket trucks and three electric forklifts.

This new initiative also builds on Uber's recent efforts to expand electric mobility options in other U.S. cities. In early 2017, Uber launched its first U.S.-based electric vehicle initiative in Portland, in an effort to increase the number of electric vehicles within Oregon's transportation mix, educating both riders and drivers on the benefits of EV. And this past January, Uber teamed up with Rocky Mountain Power to install a set of new charging stations in the Salt Lake City area.

FHWA revises FAST Act guidance on natural gas weight allowance

April 19, 2018. The Federal Highway Administration (FHWA) revised its guidance concerning the scope of the weight allowance for natural gas trucks. The revised guidance is something that NGVAmerica had been expecting for many months now and had been urging the FHWA to issue.

Previous guidance had been unclear as to whether the 2,000 lb. weight allowance was discretionary or mandatory for state authorities. The lack of clarity had been a sticking point in moving forward with state guidance and also raised questions about how practical the exemption would be if only some states were required to recognize it. The revised guidance makes it clear that all state authorities must allow natural gas trucks operating on intestate roads to operate with the increased weight.

The guidance states, "every State must allow up to 2,000 additional pounds for any legal NGV traveling on the Interstate Highway System and within reasonable access to the Interstate. The additional weight allowance is the difference between (1) the weight of the vehicle attributable to the natural gas tank and fueling system carried by that vehicle, and (2) the weight of a comparable diesel tank and fueling system, up to a maximum GVW of 82,000 pounds.

Major Automakers and State Partners Unite to Help Drive Change by Driving Electric

Campaign to Drive Public Toward Electric Cars Announced at NYIAS

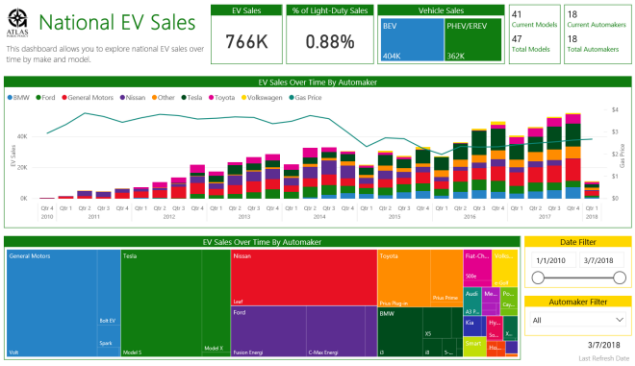
March 29, 2018 08:00 AM Eastern Daylight Time NEW YORK--(BUSINESS WIRE)--Today, at the New York International Auto Show (NYIAS), automakers and Northeast states announced a historic initiative to increase electric car use throughout the Northeast. The 'Drive Change. Drive Electric.' campaign is designed to focus attention on the availability of a growing variety of desirable electric models, tax and purchase incentives, a rapidly-expanding network of charging stations and economic benefits – including fuel price savings – for current and next generation drivers. The campaign will showcase the performance benefits and affordability of these vehicles that are easy to maintain and come in a range of models that fit the needs of any lifestyle. The 'Drive Change. Drive Electric.' campaign will encourage the public to test drive an electric car. "Automakers offer over 40 high-quality electric cars in almost every vehicle segment and many more are coming over the next few years. However, transforming mobility requires more than large numbers of high-quality cars. Customers must be aware of and comfortable with the new technology and understand how it benefits them and their family. Automakers alone cannot drive this awareness, so the partnership in the 'Drive Change. Drive Electric.' campaign offers a perfect avenue to collectively fuel consumer knowledge of electric cars and their benefits," said Mitch Bainwol, president and CEO of the Alliance of Automobile Manufacturers, an automotive trade association representing 12 automakers.

"Electric cars are a growing segment of the Northeast car market, but far too many drivers remain unfamiliar with the benefits of driving electric. Increasing sales of electric cars will deliver critical environmental and economic benefits across the region," said Arthur Marin, Executive Director of the Northeast States for Coordinated Air Use Management (NESCAUM) on behalf of the state campaign partners. "The Northeast has long teamed with the automobile industry in pioneering the development of advanced technology vehicles, and electric drive is the ultimate in clean, efficient and high performance personal transportation. The unique partnership behind this campaign will promote market transformation that benefits consumers and industry alike, and also provides significant air quality benefits across the region. Together we can help more drivers see themselves in electric cars."

"This campaign highlights the importance of government and industry collaboration. To achieve our shared goal of building a market for electric cars, you need to use all of the tools in the toolbox," said John Bozzella, president and CEO for the Association of Global Automakers, an automotive trade association representing the U.S. operations of 12 international automobile manufacturers. "The 'Drive Change. Drive Electric.' campaign will leverage a collective effort to increase awareness of the many benefits of driving electric and the wide variety of battery electric vehicles, plug-in hybrid electric vehicles and fuel cell electric vehicles available to every consumer today." The 'Drive Change. Drive Electric.' campaign will initially focus in the Northeast region. Elements of the program include a newly-launched website, advertising, social media, strategic partnerships, events and other content efforts.

The platforms will work together to connect the public with information to help them experience and consider an electric car as their next vehicle purchase, reaching those beyond today's enthusiastic and early adopters, to generate excitement about joining the electric car community through stories that can resonate with any future driver and passenger.

For additional details on the 'Drive Change. Drive Electric.' campaign please visit our newly launched website: www.DriveElectricUS.com.



Pennsylvania continues to push, look at long-term effects of electric vehicles

David Althoff of DEP stands next to a state plug-in hybrid that the agency uses to promote electric vehicles. The hybrid runs off an electric battery for the first 20 miles, then the car's internal combustion engine takes over.
staff photo by dan miller

This station to charge electric vehicles is located on Harrisburg International Airport.
staff photo by dan miller

Electric vehicles make up only about 0.3 percent of all registered vehicles in Pennsylvania, according to the Department of Transportation. But analysts expect that number to grow.
On Monday, March 26, a coalition of about 100 people from state government, the electric vehicle industry including automakers and makers of charging stations, electric utilities and environmental groups met at Pennsylvania Turnpike Commission headquarters in Lower Swatara Township to plan how best to capitalize on the economic and environmental benefits expected to come from more electric vehicles being on the road.
Coalition members presented and discussed a range of strategies, from a conservative approach involving little policy support from state government, to a more aggressive public policy scenario that encourages the adoption of electric vehicles.
The goal is for a final plan to be made public in June. The coalition will then determine potential steps for carrying it out.
The expected growth is driven in part by technology that is improving batteries that power electric vehicles. Instead of getting just 100 miles from one charge, these batteries can go 200 and 300 miles on one charge, said David Althoff Jr., a manager at the state Department of Environmental Protection Office of Pollution Prevention and Energy Assistance. DEP helped put the coalition together and hired a consultant to help write an electric vehicle implementation plan.

Charging stations are becoming a more common sight to more Pennsylvanians.
"I go to the grocery store and there's an electric vehicle charger. I can charge my vehicle while I am at the grocery store. To some degree, we are getting over that idea that I'm going to buy an electric vehicle, drive it around somewhere and not have anywhere to charge it," Althoff said.
Electrify America has unveiled plans to invest $2 billion in electric vehicle infrastructure and education programs throughout the United States by 2027.

More than 650 electric vehicle charging stations are to be located at workplaces, shopping centers, restaurants and the like, with another 300 charging stations to be sited on highways. Philadelphia is one of 17 metropolitan areas selected for the nationwide rollout, according to the Electrify America website.
The $2 billion comes from proceeds of the nearly $15 billion settlement reached in October 2016 between the U.S. government and Volkswagen over Volkswagen rigging software in its vehicles to dodge emission standards.
"We see this coming. A part of this is we need to plan for what does it look like when there are more electric vehicles on the road," Althoff said. "How do cities and localities plan for electric vehicles" when it comes to parking spaces, parking garages, and charging stations in the workplace and elsewhere throughout communities.
DEP since 1992 has supported the spread of vehicles powered by alternative fuels including electric vehicles, natural gas, propane and biodiesel, Althoff said. Since 2011 the state has been offering a residential rebate to buyers of electric vehicles, including plug-in hybrids.
He doesn't see this latest venture as subsidizing the electric vehicle industry, but as DEP and state government working as partners with others in the coalition to address and overcome impediments in the marketplace.
For example, electric vehicle manufacturers will be most drawn to those states with a plan in place to support a vehicle charging network large enough for the car-buying public to have "confidence" they won't get stranded somewhere for lack of a station, he added.

That being said, 80 percent of charging of electric vehicles happens at home. For electric distribution companies and electric generators, that's an opportunity and a challenge at the same time.
"When you look down the road, we go from having 5,000 electric vehicles to maybe 500,000 electric vehicles in Pennsylvania — that's a demand on the grid. Instead of those vehicles going to the gas station, they are going to be plugging in at home or at work," Althoff said.
That could create problems if everyone is charging at the same time, like everyone cranking up their air conditioning on a hot summer day.
But large batteries in electric vehicles can store a lot of energy. Technology exists to allow these batteries to put energy back into the electric grid, so the grid has power when it needs it.
"It is not ready yet, but that is a down-the-road potential," Althoff said. Price incentives could be used to get people to charge their electric vehicles at certain off-peak times, while putting power back into the grid at certain other times.
To find a charging station, go to the Alternative Fuels Data Center website.

Pittsburgh to join smart cities collaborative

By Lian Bunny
– Reporter, Pittsburgh Business Times

Transportation for America announced today the City of Pittsburgh will join its 2018 Smart Cities Collaborative, aiming to examine how technology and mobility options can boost urban transportation.

The collaborative launched in late 2016, after Columbus, Ohio, beat Pittsburgh and other applicants for the $50 million federal Smart City Challenge grant. The collaborative was meant to be a new opportunity for cities that did not win or were not eligible for the Smart City Challenge, according to Transportation for America's website.

The first cohort looked at challenges related to shared mobility, automated vehicles and how data can be used to manage complicated transportation networks, according to a news release.

Twelve of the cities from last year's collaboration will be returning, and 10 new cities – including the Steel City – will be joining the program. This year, more than 50 cities applied to be part of the collaborative.

The 22 areas participating are: Pittsburgh; Atlanta; Austin, Texas; Boulder, Colo.; Centennial, Colo.; Gainesville, Fla.; Houston; Indianapolis; Los Angeles; Madison, Wisc.; Miami-Dade, Fla.; Minneapolis; New York; Portland, Ore.; San Diego; San Francisco; San Jose, Calif.; Santa Monica, Calif.; Seattle; Toronto; Washington D.C.; and West Sacramento, Calif.

City representatives will have meetings, focusing on how technologies and new mobility options are changing curb space and right-of-way and how people move through their communities, according to a news release.

The first meeting will be in Denver on April 16 to April 17. Cohort members also will participate in workshops, both with industry transportation experts and other collaborative members. Participants also will get direct technical assistance and will get to share their projects' results with the rest of the cohort.

PITTSBURGH
A MOST LIVABLE CITY

Cost Effective and Environmentally Conscious Organization

MTSA

The McCandless Township Sanitary Authority is a Regional, Pennsylvania Authority that provides the wastewater collection and wastewater treatment for a 44 square mile area in northern Allegheny County. The Authority serves all or parts of seven communities and has a customer base of nearly 52,000 residents.

As part of the Authority's mission statement the Authority has pledged to its customers that it will continue its efforts to control operating costs while up-grading facilities to meet local, state and federal environmental rules and regulations.
One such effort has been through the **PA Dep – Alternate Fuels Incentive Grant Program (AFIG).** With the emergence of the Marcellus Shale Industry the Authority saw an opportunity to reduce its operational costs for fuel by developing a propane bi-fuel conversion program. At the time gasoline prices were rising almost daily and there appeared to be no real relief in sight. Since the Authority's initial kick off of the program in 2013 there has been some relief in gasoline prices, but the cost of propane has tracked right along with gasoline and has been at least $1.00 per gallon equivalent cheaper than gasoline throughout the program. To date the Authority has applied for and received two State DEP grants to supplement the cost of this program. Through the PA Dep AFIG Program the Authority has received in excess of $30,000.00 in program reimbursements. The Authority chose a bi-fuel conversion program, which allows the use of propane or gasoline in the same vehicle. To date the Authority has converted 8 total vehicles and has seen a 3 year payback on its investment and a yearly cost saving on fuel of nearly $2500.00 per vehicle per year. Not even to mention the environmental benefits of 20% less harmful emissions, lower carbon monoxide and nitrogen oxide release and that propane is not a greenhouse gas.

POWERED BY PENNSYLVANIA PROPANE

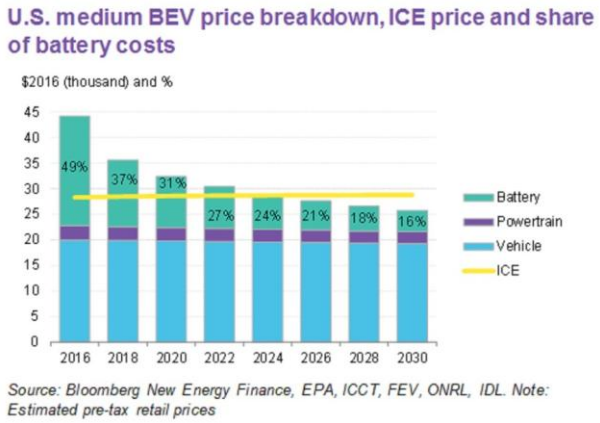
The MTSA Board and the MTSA staff have formed a bond to serve the Authority together in an effort to serve and protect the interests of the Authority. While the propane conversion program is only one of the many cost savings programs being undertaken it has proven to be a true cost saver for the customers of the Authority. This program will continue to grow as vehicles are replaced and other opportunities are always being investigated by the Authority

Spotlight: Electric Vehicles Expected to Cost Less Than Gas Counterparts Before 2025

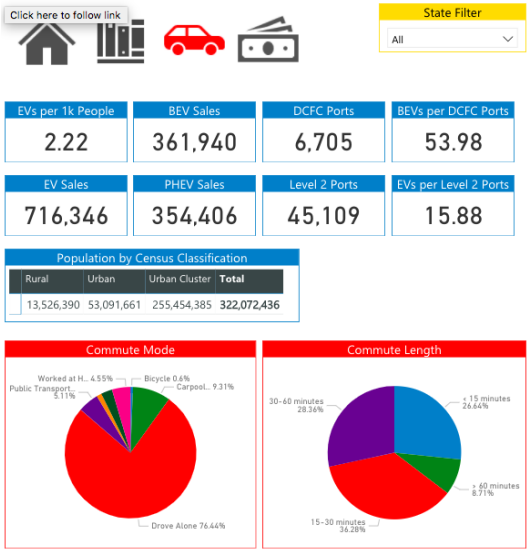
Bloomberg Estimates Cost of Battery Electric Vehicles to Drop Below ICEs if Li-Ion Trends Continue

In 2017, the cost of a lithium-ion battery pack averaged $208/kWh according to Bloomberg New Energy Finance. Increases in mass manufacturing of these battery packs could decrease prices to $70/kWh by 2030, according to the firm, and will drive the cost of battery electric vehicles below their internal combustion counterparts by 2024. Read More Here

Demographics can play a key role in figuring out where these EVs might land once they hit the market. The EV Hub is tracking demographic indicators to give you localized data from the U.S. Census Bureau.



EV Hub Demographics Dashboard



The EV Hub has overlaid U.S. Census Data with EV and charging data to provide insights into EV adoption and infrastructure as it relates to demographic indicators.

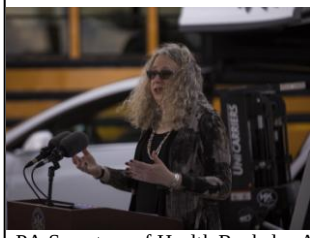
Pictures from DRIVEPA FORWARD Event on May 10th in Harmar


Alt Fuel Vehicles in Harmar


PA DEP Secretary Patrick McDonnell


DLC Cambell Hawkins


Star Transportation's Tesla Limo


PA Secretary of Health Rachel Levine


Allegheny County Executive Rich Fitzgerald


Pitt Ohio James Fields


PRCC Rick Price


American Natural Jennifer Pomerantz


Pitt Ohio CNG Tractor

Bluebird Propane School Bus


UPMC CNG Shuttle

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/membership/

The Pittsburgh Region Clean Cities Board of Directors would like to thank all of our members and stakeholders for supporting our coalition and mission!

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.

Please come visit our PRCC Web Site:

www.pgh-cleancities.org

. 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.

Learn more about Clean Cities at *cleancities.energy.gov*, and learn how to get involved with the Pittsburgh Region Clean Cities coalition at www.pgh-cleancities.org