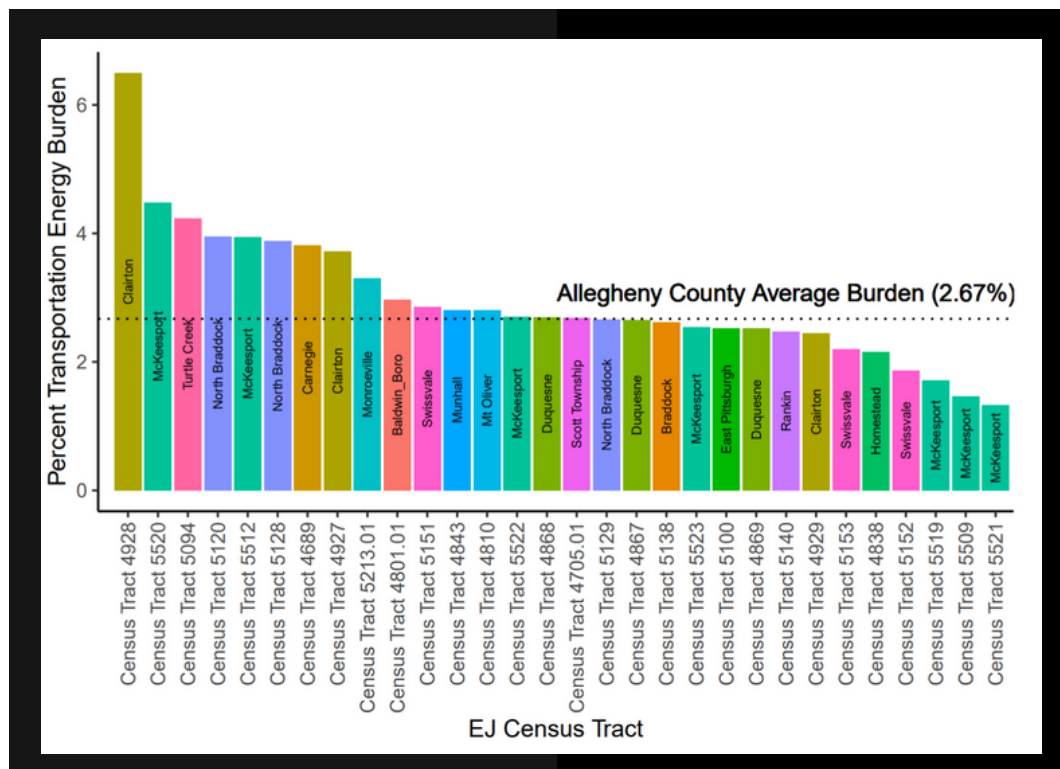


GAZETTE

DRIVING THE WAY TOWARD
ENERGY INDEPENDENCE

APRIL 2023 | VOLUME 5, ISSUE 43



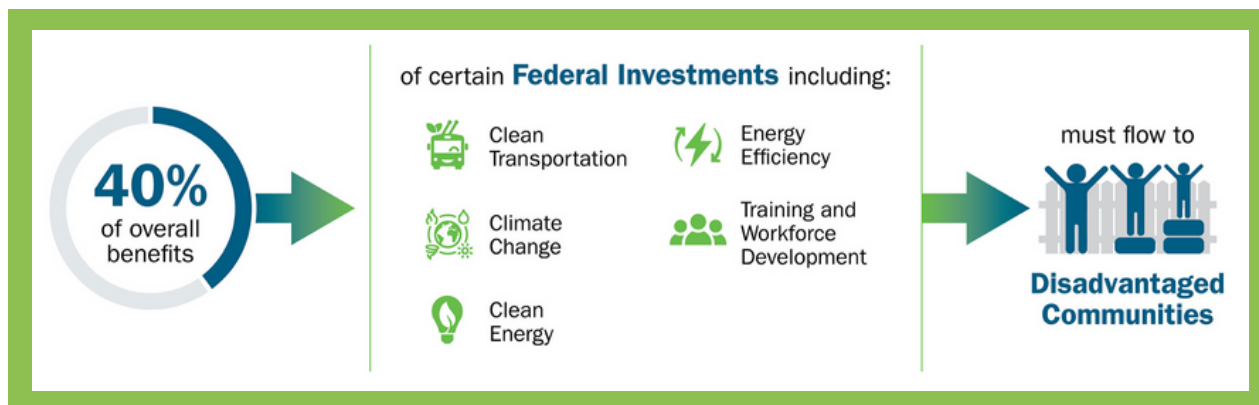
Transportation Energy Burden in Select Environmental Justice Areas in the Region

PITTSBURGH REGION CLEAN CITIES' JUSTICE 40 INITIATIVE AIMS TO ADDRESS ENVIRONMENTAL INEQUITIES

ISSUE CONTRIBUTORS:

Rick Price, Executive Director
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Pittsburgh Region Clean Cities (PRCC) is now making strides to help address environmental inequities in Western Pennsylvania in line with the Biden Administration's Justice 40 initiative. The Justice 40 effort is a national strategy to address historically



disproportionate environmental impacts on low-income and communities of color. The goal of the initiative is to ensure that at least 40% of new Federal investments in clean energy and infrastructure directly benefit disadvantaged communities (DACs).

The Justice 40 initiative is an important step towards addressing environmental inequities throughout the Pittsburgh region. According to a report by the Environmental Integrity Project, Pittsburgh is one of the worst cities in the country for air pollution, and low-income communities and communities of color are disproportionately impacted by this pollution.

The initiative has received support from local leaders and community organizations. Allegheny County Executive Rich Fitzgerald stated that "the Justice 40 initiative is an important step towards addressing the environmental injustices that have impacted our region for far too long."

PRCC's Justice 40 initiative is also aligned with the City of Pittsburgh's

Climate Action Plan, which aims to reduce greenhouse gas emissions by 50% by 2030 and achieve carbon neutrality by 2050. The initiative will help to ensure that the benefits of the city's clean energy and infrastructure investments are shared equitably across the community.

Lydia Aceto, a Masters of Sustainability Student at Chatham University, served as the PRCC intern for the Fall 2022 and Spring 2023 terms. She commented, "As part of my internship for Pittsburgh Region Clean Cities I conducted an analysis on transportation energy burden data from Argonne National Laboratory. The data showed which areas by census tract were most burdened by transportation energy costs (such as fuel for their cars), and I used this data to determine which areas in our region were most burdened by transportation costs. As it turns out, many lower-income census tracts surrounding Pittsburgh do have a higher transportation energy burden than the rest of Allegheny County. This problem

is consistent with other research suggesting low-income communities are disproportionately affected by a high transportation energy burden."

Lydia also compared her findings against air quality data published by the Congress of Neighboring Communities (CONNECT) regarding tons of CO2 Emissions by Municipality. Findings from both research efforts were then used to help prioritize PRCC's outreach plan to DACs in the region.

More generally, PRCC hopes its Justice 40 actions will involve collaborative efforts spanning the City of Pittsburgh, Allegheny County, local community organizations, coalition stakeholders and sustaining members. PRCC is now actively seeking local community organizations located in high-priority equity and environmental justice (EEJ) areas to partner with on hosting community-oriented listening sessions and educational workshops.

Opportunities for collaboration could focus on several key areas, among them:

Improving access to clean transportation options: The initiative aims to promote the adoption of electric vehicles and other clean transportation options in low-income communities and communities of color. Mobility-oriented opportunities exist to address affordability, accessibility, efficiency, reliability, and safety.

Reducing air pollution: The initiative aims to reduce air pollution in low-income communities and communities of color by promoting the adoption of cleaner technologies and practices. Exposure to gasoline vehicle exhaust can cause problems such as asthma, pneumonia, bronchitis, as well as lung and heart problems. People living in DACs tend suffer from these ailments disproportionately.

Providing job training and workforce development: The initiative aims to provide job training and workforce development opportunities in the clean energy sector for residents of low-income communities and communities of color. There is potential to spur new economic growth opportunities through Justice 40 collaborations; emphasis on fair labor practices and inclusive, local business and economic development activity are identified areas of interest.

Organizations who may be interested in learning more or getting involved are asked to **contact PRCC's Executive Director, Rick Price, by email to coordinator@pgh-cleancities.org**.

Overall, PRCC hopes its Justice 40 initiative will be an important step towards addressing environmental inequities in the region and promoting a cleaner, more sustainable future for all residents.

To learn more, visit the [Department of Energy's Justice40 page](#).

CLEAN CITIES PROGRAM CELEBRATES 30 YEARS:

The Clean Cities Coalition Network is celebrating 30 years of boosting the country's energy security, economic vitality, and quality of life by advancing affordable, efficient, and clean transportation fuels and technologies. Over 30 years, the network has built bipartisan support, deep connections within the transportation industry, and active partnerships with 20,000 public and private stakeholders. Thriving on a culture of collaborative change, coalitions harness decades of deployment expertise to continue moving our transportation systems into the future.

More than 75 Clean Cities coalitions act locally in urban, suburban, and rural communities to help businesses and consumers meet their climate, financial, and energy goals. As the technology deployment arm of the U.S. Department of Energy's Vehicle Technologies Office, coalitions leverage expertise from federal agencies, national laboratories, and other coalitions. They bring this expertise directly to the communities they serve, developing solutions based on a unique understanding of local needs, opportunities, and markets.

Below are comments on this milestone occasion from **Michael Berube, Department of Energy**: "Clean Cities represents 75 different coalitions



spread throughout the country that for 30 years now have been providing expert advice to fleets and local governments and customers. We are so proud that we are celebrating our 30th anniversary.

For those 30 years, Clean Cities has been a trusted partner at all levels of government, helping provide people with the best information and knowledge on the latest technologies in clean transportation. Well, 30 years later, technology has changed and evolved.

Right now Clean Cities are being called upon more than ever to help people understand and navigate the changing landscape of vehicle technology. Certainly electrification is entering every part of vehicle fleets. And fleet users and owners and operators are constantly asking what's next, how do I manage that, what's the right technology, how do I deal with electric vehicle charging, what's the role of hydrogen in the future, and what do I

do with my current natural gas fleets and where is the future for that?

Clean Cities is going to use that knowledge that they've gained over the last 30 years and that experience, supported by the Department of Energy, to really rededicate themselves going forward for the next 30 years. To help provide all of you with the best insights, the best knowledge, the best capability of how to navigate this new future.

We all know that we need to decarbonize the transportation sector.

It's the largest source of greenhouse gas emissions, and if we're going to achieve net zero emissions across the economy, transportation is going to have to be at the forefront of that change.

To do that, we're committed with the Clean Cities coalitions across the country to provide all of you with the best knowledge, the best data, the best information possible to help make the decisions for you and your fleets.

Thank you for your support."

30 Years of Transportation Progress

Clean Cities is celebrating 30 years of moving our transportation systems into the future through community-driven solutions that advance affordable, efficient, and clean transportation fuels and technologies.

A national network of Clean Cities coalitions **builds local relationships** in communities across the United States.



Coalitions **help businesses and consumers** adopt alternative fuel vehicles and advanced transportation technologies.



In 30 years, coalition activities eliminated **67 million tons** of emissions.



Helping school districts adopt school buses with low or no tailpipe emissions creates **cleaner air** at local schools.



Incorporating community-driven choices improves **equitable access** to advanced transportation.



Coalitions tailor projects to unique needs through partnerships with **20,000 stakeholders**.



Shared mobility options, including shuttles, buses, e-bikes, and scooters, can **reduce travel costs, energy consumption, and traffic congestion**.



Clean Cities coalitions act locally in **urban, suburban, and rural communities** to foster the nation's economic, environmental, and energy security and move our transportation systems into the clean energy future.



Learn more and contact your local coalition: cleancities.energy.gov

A NEW PLAYGROUND FOR PUBLIC GAS UTILITIES: BRINGING RENEWABLE NATURAL GAS TO THE SCHOOL BUS YARD

By Robert Friedman, NeuFuel

Finding ways to reduce our carbon footprint and to seek out more sustainable options for our everyday activities has become a priority for organizations and individuals, impacting the decisions we make each day. It spares no industry and is forcing all of us to find ways to reduce our carbon emissions and embrace a more sustainable future.

The public-school sector is no different. With nearly 100,000 public K-12 schools across the country, these institutions comprise and operate one of the largest mass transportation fleets in the U.S. and with 480,000 school buses, they are also one of the largest public energy consumers. Additionally, 94 percent of these school buses are diesel powered, creating air pollution that impacts the climate and students' health¹ and challenges school budgets. But this is one area where public utilities have the resources and capabilities to come to the aid of their local school districts.

Recent technology unveiled at the Student Transportation News Expo in July 2022 showcased a cost-effective vehicle platform that enables existing diesel school buses to run on a blend of

renewable natural gas (RNG) and diesel – providing schools with the ability to reduce emissions, save money on fuel costs, and provide a quieter, more comfortable ride for students and drivers alike.

The solution, created using Ingevity's NeuFuel™ technology and American CNG's DEMI Diesel Displacer, led to the creation of the DEMI-NeuFuel school bus platform, branded as the CowFartBus. By converting diesel school buses that are already in operation, for which there are limited-to-no options, to the DEMI- NeuFuel system and installing the low- cost NeuFuel fueling appliance at the bus yard, buses can run on a blend of RNG and diesel.

From a revenue standpoint, the DEMI-NeuFuel platform could equate to a substantial increase for public utilities. One school bus powered by the DEMI-NeuFuel solution can use up to 800 DGEs (dependent on the fleet's actual usage) of RNG per year or 106 mcf. According to one southeastern U.S. natural gas utility, one school bus could be the equivalent of almost five homes using natural gas. With school districts operating dozens of buses, this could be an easy way for public gas utilities to partner with their local school and pro-

provide a cost-effective solution to reduce emissions and aid school budgets, while simultaneously driving more volume through the utility's system.

From an implementation standpoint, the DEMI-NeuFuel system is relatively easy. The fueling appliance can be set up at the bus yard and can tap into the existing natural gas line, making the installation process for the gas company seamless. Additionally, Ingevity's NeuFuel solution enables the fueling appliance to operate at a lower pressure compared to compressed natural gas (CNG). This lower pressure eliminates a large hurdle seen with many fleet operators by enabling the use of an affordable fueling infrastructure for all fleets, no matter the size.

School districts that have signed on to the pilot program have been impressed with how easy it was to install the fueling appliance and have immediate access to RNG for their buses. The solution has provided operators with the opportunity to attain cleaner transportation for students at a fraction of the cost for their existing school bus assets. The result is to provide fleets with another tool in the toolbox with one of the lowest cost solutions and the opportunity for a favorable ROI.

Using natural gas to power one of the largest mass transportation fleets in the

country could be a gamechanger when it comes to the increase in the volume of natural gas being consumed. However, as a relatively new solution, school districts are largely unaware of the new capabilities using this technology and public utilities have an opportunity to help local schools by bringing this solution to their attention.

Currently, DEMI-NeuFuel school bus pilot programs are popping up all over the country and school districts are eager to test the results. The DEMI and NeuFuel teams are sponsoring pilot programs for school bus fleets to evaluate the technology. They are also offering information sessions on how public gas utilities can partner with the DEMI-NeuFuel team to leverage this opportunity with local schools.

For more information on the technology, information sessions and the pilot program visit www.cowfartbus.com.



The CowFartBus Platform on display.



What is the DEMI-NeuFuel School Bus (aka: the CowFartBus)?

- Converts existing diesel school buses to run on a blend of renewable natural gas (RNG) and diesel with the DEMI Diesel Displacer.
- The DEMI-NeuFuel system stores enough RNG for a daily route with the NeuFuel solution. The bus refuels when it is at the fleet bus yard.
- The bus switches to diesel automatically when the natural gas tank is empty.

What are the benefits to schools?

- Cost-Effective: Fuel savings of about \$3/DGE vs. diesel and low-cost conversion and fueling solution
- Cleaner: RNG can significantly reduce greenhouse gas and NOx emissions
- Quieter: Using RNG reduces engine noise providing a better driving experience
- Longer Driving Range: Dual fuel system eliminates range anxiety and reduces diesel consumption

USE FUELECONOMY.GOV TOOL FOR INFORMATION ABOUT CLEAN VEHICLE TAX CREDIT:

FuelEconomy.gov has a new tool to help consumers shop for clean vehicles eligible for the new Clean Vehicle Tax Credit.

FuelEconomy.gov's Tax Center helps car buyers determine whether a vehicle qualifies for the old clean vehicle credit, the new credit, or the pre-owned vehicle credit and helps them navigate through the requirements for each. It provides a simple calculator to help determine the credit for pre-owned vehicles, information on claiming each of the credits, and frequently asked questions consumers may have about the credits.

QUESTION OF THE MONTH:

What are the best practices for implementing workplace electric vehicle (EV) charging programs?

With proper workplace charging implementation, employers can help increase the convenience and affordability of driving electric for their employees. Further, workplace charging can demonstrate a commitment to sustainability goals by adopting advanced vehicle technologies to reduce emissions. Please see below for go-to resources and information on best practices for planning workplace charging programs, installing EV charging stations, and managing successful programs.

Go-To Resources

To start, the [Alternative Fuels Data Center's \(AFDC\) Workplace Charging for EVs page](#) provides a wealth of information to assist employers and various stakeholders to implement an effective and impactful workplace charging program.

In addition, please see below for key resources:

- Employers and workers can find resources on planning, organizing, and executing successful and educational workplace charging events in the [Clean Cities Workplace Charging Toolkit](#).
- As you may know, Clean Cities coalition-led Equitable Mobility Powering Opportunities for Workplace Electrification Readiness (EMPOWER) program won federal funding to host a website and develop resources to serve as a one-stop-shop for supporting workplace charging programs, visit [WorkplaceCharging.com](#) to learn more.
- [The City of Boston's How-To Guide: Starting a Workplace EV Charging Program](#) provides additional information about planning and managing workplace charging, including a sample charging etiquette booklet for employees.

Evaluating and Planning for Workplace Charging

Determining if a workplace charging program is right for an organization often begins by gauging employee interest. Employers and stakeholders can refer to [EMPOWER's Workplace Charging Survey](#) to engage with existing EV owners and gauge interest among other employees to estimate future expansion needs.

[EMPOWER's Power and Energy](#)

[Calculator tool](#) estimates charging needs. Employers should consult their utility, an electrical contractor, charging equipment provider, and other stakeholders early in the process to identify and discuss potential challenges. For example, offering charging at workplaces located in leased facilities requires negotiations with the building owners. See the Successful Workplace Charging Programs section below for more information on projects in mixed-use developments and leased facilities.

Reaching Sustainability Goals

The following resources can help employers understand how workplace charging may support their sustainability portfolio:

- Electricity Sources and Emissions – Refer to the [AFDC Emissions from EVs page](#) to understand how grid mix impacts the emission reduction benefits of EV-commuting employees.
- Emission Reduction Benefits of Workplace Charging – Although dated, the [Workplace Charging Comparison of Sustainable Commuting Options](#) reports on how workplace charging compares to other sustainable commuting options in reducing greenhouse gas emissions (GHG) from employees' commutes, also known as Scope 3 emissions. View Clean Cities partner, Packsize's sustainability "wins" from

- implementing a workplace charging program and further goal setting in their [Sustainability at Packsize presentation, Slide 6 – 8](#).
- Charging Station Credit for Green Building Certification – Evaluate how installing workplace charging can support certification by green building certification programs, including Leadership in Energy & Environmental Design (LEED), Green Globes, ENERGY STAR® for Buildings and Plants, and Sustainability Tracking, Assessment & Rating Systems (STARS).

In addition, it may be worth noting that several municipalities and states have established goals and plans to reduce emissions and may provide assistance in developing a workplace charging program.

Installing, Operating, and Managing Workplace Charging

Determining the right EV charging station power level will be unique to each workplace charging Program. By evaluating goals and needs, employers can select the best workplace solution. Level 1, Level 2, and direct-current (DC) fast charging offer benefits and require different considerations for workplace charging:

- Level 1 stations are less expensive than Level 2 stations, but they charge vehicles at a slower rate and generally may only be used by

one vehicle during the standard workday.

- Level 2 stations are the most used at workplaces, and each Level 2 connector is capable of charging more than one vehicle per day. Some Level 2 stations enable easier sharing with multiple connectors that allow vehicles to charge in succession without owners having to disconnect or move vehicles.
- DC fast charging may be used as part of a strategy to alleviate charging congestion or to allow employees to charge in a very short amount of time

Employers seeking to procure charging infrastructure and offer workplace charging must also consider costs associated with equipment, installation, regulations, maintenance, and electricity. Please refer to the following resources for more information:

- [AFDC Developing Infrastructure to Charge EVs page](#)
- [AFDC Charging Infrastructure Operation and Maintenance page](#)
- [Plug In America's Cost for EV Workplace Charging Stations](#)
- [Plug In America's Zoning, Permitting, and Inspection of Workplace Charging Stations](#)
- [U.S. Access Board's Design Recommendations for Accessible EV Charging Stations](#)

There are several federal, state, and local funding opportunities available for EV charging infrastructure development that could be explored depending on workplace charging needs. Accessing these funding sources requires strategic planning for multipurpose workplace charging and can increase funding streams for implementing a workplace charging program. For example, an employer may have the ability to broaden the scope of the EV charging stations and offer overnight charging access to a private fleet to meet eligibility for various incentives. The [AFDC Laws and Incentives database](#) provides information on federal and state incentives and can be a critical resource for workplace charging program developers to understand all the discounts available to them. Further the [AFDC Examples of Local Laws and Incentives page](#) provides examples incentives for workplace charging program developers to explore locally.

Organizations offering workplace charging for EVs can benefit from setting clear guidelines in the areas of administration, registration and liability, sharing, and pricing to help ensure an impactful workplace charging program. See the [U.S. Department of Energy's Sample Workplace Charging Policy](#) and the [AFDC Workplace Charging for EVs page](#) for more information on

charging administration and additional considerations.

Engaging Employees

Once charging is available at work, employers may want to engage employees on how they can take advantage of this. Organizing ride-and-drive events is an effective way to introduce employees to EVs and workplace charging. Refer to the [Workplace Charging Employer Workshop Toolkit](#) for best practices on event organizing, educational materials, and example workplace charging events.

Successful Workplace Charging Programs

For more information on workplace charging efforts across the country, we

recommend visiting the [AFDC Case Studies](#) database. A few examples are highlighted below, which may have some best practice information that's of use:

- [Workplace Charging at Leased Facilities Charges Up Tenants and Property Managers](#)
- [Implementing Workplace Charging within Federal Agencies](#)
- [Workplace Charging Success: MetLife](#)
- [Local Businesses Get Creative to Offer Workplace Charging](#)
- [Louisiana State University: The State's First Workplace Charging Challenge Partner](#)
- [EVs Take Center Stage in North Texas](#)
- [Companies Power up Through Workplace Charging Challenge](#)

ELECTRIC FLEET EXPO SHOWING AT UPMC EVENTS CENTER IN MAY:



SOUTHWESTERN PENNSYLVANIA ELECTRIC FLEET EXPO

EVENT DATE:
Wednesday, May 24, 2023

EVENT LOCATION:
UPMC Events Center,
6001 University Blvd.
Moon Twp, PA 15108

EVENT TIME:
Registration opens at 8 a.m.
event runs 9 a.m. to 3:30 p.m.

DLC **Sustainable PGH** **PITTSBURGH**

Join Duquesne Light Company, Sustainable Pittsburgh, Local Government Academy, Pittsburgh Region Clean Cities (PRCC) and Southwestern Pennsylvania Commission (SPC) on May 24th for the Southwestern Pennsylvania Electric Fleet Expo! Designed especially for fleet, transportation, sustainability, and local government leaders of municipalities, school districts, and commercial fleets, this event will pro-

vide everything you need to know about transitioning to electric. See the latest electric vehicle models; learn about funding opportunities and best practices; or talk with experienced peers in fleet management and charging.

The full-day experience includes several breakout sessions covering all aspects of the coming shift towards transportation electrification. Topics covered will include:

- Electric Fleet Planning for Local Governments;

- Electric Fleet Planning for School Bus Operators;
- Electric Fleet Planning for Commercial Fleets;
- Funding Opportunities and Policy to Support Electric Fleets;
- Maintaining an Electric Fleet and Workforce; and
- Advanced Charging Technologies.

There is no cost to attend; but advance registration is required and space is limited. Registration closes May 3rd. To learn more, visit the Expo's [Eventbrite Page.](#)

UPCOMING EVENTS:

BOARD OF DIRECTORS MEETING SCHEDULE FOR 2023:

The PRCC Board of Directors meeting schedule is as follows:

May 3, 2023 - UPITT, Mervis Hall

July 5, 2023 - DLC

September 6, 2023

November 1, 2023

10:00 a.m. - 11:30 a.m.

OTHER UPCOMING EVENTS:

Southwestern PA Electric Fleet Expo

May 24, 2023

8 a.m. - 4 p.m.



TRAINING COURSES:

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.

No new classes are scheduled at this time.

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

ALT FUEL DISCUSSION GETS REAL AT NTEA'S WORK TRUCK WEEK

In March, NTEA's Work Truck Week, the industry's premier commercial work truck event, wrapped up an action-packed few days in Indianapolis with nearly 15,000 visitors.

As a long-time attendee and former board chair for the NTEA, one thing I found refreshing was the shift in conversation about what's actually needed to make a positive environmental impact both right now and for the long haul.

Electric vehicles anchored nearly every discussion in prior years, with previous conference sessions positioning electric vehicles as the only clean solution. The sentiment in 2022 was that if businesses aren't solely adopting EV, they'll quickly fall behind.

This year, my colleagues and I enjoyed broader, more realistic discussions about what alternative fuels actually work in application and are available for fleets today. In fact, there were several conversations about how EVs work in specific markets and duty cycles compared to other alternatives like propane autogas. Electric vehicles were under much tighter scrutiny from attendees as we collectively look at options on the road ahead toward a



greener future.

With all the unanswered questions around EV range, infrastructure, price point and availability, fleet managers are looking for viable clean fuel options for the immediate future. Propane vehicles run on a clean, affordable, domestic, scalable and readily available resource helping businesses meet their goals and reduce emissions from day one.

It's great to see that the industry is looking for many solutions and not all the proverbial eggs are going into the EV basket. The path to near zero emissions involves multiple strategies, partners and solutions that work for fleets of all shapes, sizes and budgets. One size rarely ever fits all.

Here's to more great conversations and collaboration.

Todd Mouw is executive vice president of sales and marketing of ROUSH CleanTech, an industry leader of advanced clean vehicle technology. Mouw has more than two decades of experience in the automotive and high-tech industries. As former president of the NTEA Green Truck Association, Mouw helped set standards in the green trucking industry. To learn more, visit [ROUSHcleantech.com](https://www.ROUSHcleantech.com).



ROUSH CleanTech at the NTEA's Work Truck Week.

PROPANE NOW REDUCING EMISSIONS THROUGH RECHARGING INFRASTRUCTURE

The dual-purpose standalone fueling system from Propane Fueling Solutions provides fleets with reliable solutions whether they refuel with propane autogas or need to recharge using a propane-powered microgrid.

By Fuels Fix -March 14, 2023

After decades of reliably providing fleets with a clean energy solution, propane is now reducing emissions

along the path to zero even further by providing a significantly less expensive and cleaner recharging solution. The new portable dual-purpose standalone fueling system from Propane Fueling Solutions allows fleets with various alternative fuel vehicles to refuel with propane autogas or recharge with DC level 3 fast chargers independent of the grid.

The skid infrastructure combines an efficient 60kW propane generator with wind and solar power to create a microgrid that allows fleets to affordably implement a drop-in charging solution. The skid also includes a refueling station for propane autogas vehicles.

“We’ve seen it time and time again—the grid fails, the wind doesn’t blow, the sun doesn’t shine, and an electric

vehicle fleet is grounded because it can't recharge. Propane can be there in those moments to provide a clean, reliable power solution," said Mauricio Morafiallos, CEO of Propane Fueling Solutions. "Historically, EV fleets have relied on diesel generators for a portable charging solution. In those cases, all the good you're doing with EVs is going out the window when those diesel emissions are released. Propane eliminates that issue."

For light commercial microgrid (<100kW generation system) applications, propane fuel cells can lead to near-zero nitrogen oxide (NOx) and carbon monoxide (CO) emissions, as well as a 24 percent reduction in carbon dioxide (CO2) emissions. Propane fuel cells are also cost-competitive with diesel generators.

Compared to traditional EV charging infrastructure, the skid solution is significantly less expensive than traditional EV charging infrastructure because it doesn't require the same site prep, permanent housing, or other costly charges that are incurred with permanent infrastructure. According to Propane Fueling Solutions, the skid cuts costs by as much as 75 percent or more. Because of its affordability, the dual-purpose standalone fueling system allows fleets to try both propane autogas and electric vehicles—and learn about the capabilities and limitations of multiple energy sources



Propane may provide an innovative solution for EV charging.

—without making costly infrastructure investments.

"For fleets that run propane autogas and electric vehicles, this is a solution that can't be beat. It's fully portable, scalable, runs reliably regardless of the weather, and can be installed in as little as 24 hours," said Steve Whaley, director of autogas business development at PERC. "The propane autogas vehicles can be refueled and back on the road within minutes, and EVs can be charged reliably through propane-generated power. It's time fleets have truly resilient energy sources, and propane provides that."

For more information on how propane can reliably power vehicles or provide power generation needs, visit [Propane.com](https://www.propane.com).

CHARGING FOR HEAVY-DUTY ELECTRIC TRUCKS

A new publication from Argonne National Laboratory, ["Charging for Heavy-Duty Electric Trucks: Frequently Asked Questions about the Megawatt Charging System and SAE J3271,"](#) covers what a charging standard is, how SAE charging standards are developed, and when the SAE J3271 charging standard is expected to be finalized. It also lists funding from recently passed federal laws that could support megawatt charging system projects.

NEW CASE STUDY ON EQUITABLE ACCESS FOR EV CHARGING IN MULTIFAMILY HOUSING

A [new case study](#) on the AFDC showcases how the city of Dallas and Dallas-Fort Worth Clean Cities worked together to bring EV charging to all drivers, including people living in underserved communities and multifamily housing. This joint effort aimed to improve equitable access to sustainable and affordable transportation options by increasing the number of EV charging stations in underserved areas.

STATION LOCATOR HAS NEW MOBILE-FRIENDLY DESIGN

The [Alternative Fueling Station Locator](#) was updated with a mobile-friendly design. The changes allow smoother, more convenient navigation of the map and search features on mobile devices. These enhancements expand the use of the Station Locator by making it easier for drivers to find stations while on the go.

NEW STATION LOCATOR LAUNCHED FOR NATIONAL PARK SERVICE

A new Station Locator for the National Park Service (NPS) is now available on [NPS.gov](#). The map allows visitors to see if EV charging is available in or near NPS sites and includes filters to show a specific type of charger, the charging level, and locations near a specific park or monument. This tool expands the realm of possibility for EVs by lessening range anxiety for drivers taking their EVs to NPS sites in some of the country's most remote areas.

FHWA RELEASES CHARGING AND FUELING INFRASTRUCTURE DISCRETIONARY PROGRAM FY22-23 NOFO

The Federal Highway Administration [announced](#) the first round of the Charging and Fueling Infrastructure (CFI) Discretionary Grant Program and released the FY22 and FY23 [Notice of Funding Opportunity](#).

The [CFI Discretionary Grant Program](#) is a new competitive grant program created by the Bipartisan Infrastructure

Law to strategically deploy publicly accessible electric vehicle charging and alternative fueling infrastructure in the places people live and work, in addition to along designated Alternative Fuel Corridors (AFCs).

CFI Program investments will make modern and sustainable infrastructure accessible to all drivers of electric, hydrogen, propane, and natural gas vehicles.

A recording of the [CFI Grant webinar](#) is available. All applications are due by 11:59 P.M.ET on May 30, 2023.



**May 15-17, 2023
Portland, OR**

The annual Forth Roadmap Conference brings the nation's electric transportation stakeholders together in a highly interactive format to network, forge partnerships, deepen relationships, explore emerging trends, share best practices, and build the road ahead.

[Learn More](#)



**Aug 22-24, 2023
Tacoma, WA**

The Green Transportation Summit & Expo (GTSE) is the West Coast's premier fleet modernization and sustainable transportation event. Get an inside look at the latest in fleet technologies and innovations; informative sessions feature a who's who of national and regional transportation leaders.

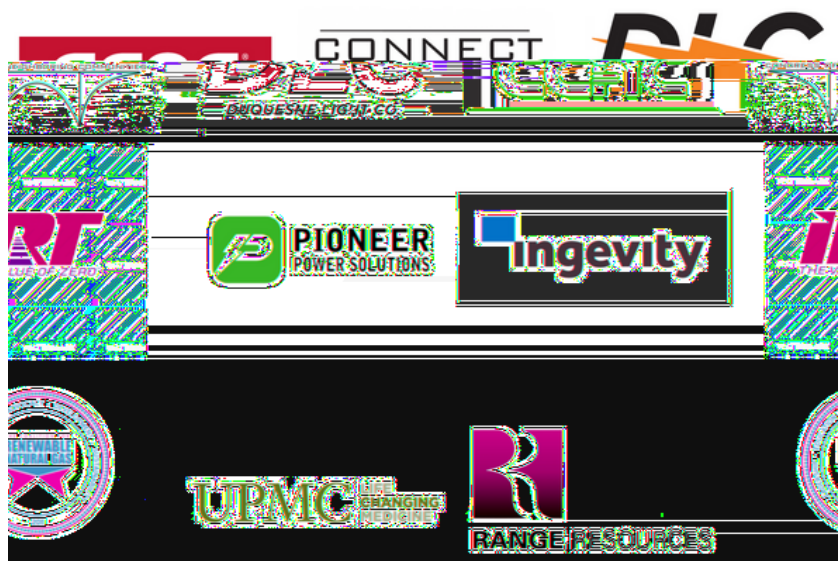
[Learn More](#)

SUSTAINING MEMBERS

PLATINUM LEVEL MEMBERS:



GOLD LEVEL MEMBERS:



SILVER LEVEL MEMBERS:





THANK YOU FOR YOUR SUPPORT!

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

PRCC Membership Levels:

Individual -- \$150
Nonprofit -- \$300
Bronze -- \$500
Silver -- \$1000
Gold -- \$2000
Platinum -- \$4000+

Learn more about membership at:
www.pgh-cleancities.org/membership/



CONTRIBUTE YOUR NEWS:

Help us share success stories about the projects in our region!

Please feel free to contact:

Rick Price,

Executive Director/Coordinator

412-735-4114

coordinator@pgh-cleancities.org

LEARN MORE:

Learn more about Clean Cities at:

www.cleancities.energy.gov

Or get involved with the Pittsburgh Region Clean Cities coalition at:

www.pgh-cleancities.org



UNITED WE STAND:
REMEMBERING SEPTEMBER 11, 2001