SOUTHEAST LOUISIANA CLEAN FUEL PARTNERSHIP

PUTTING THE PIECES TOGETHER FOR CLEANER FUEL
A STRONGER ECONOMY - A HEALTHIER COMMUNITY

Clean Fuel Newsletter

July 2016

www.CleanFuelPartnership.org

Upcoming Events

Click Here for Upcoming Webinars

EV Roadmap 9
July 20-21, 2016
Portland, OR
http://evroadmapconference.com

2016 North American School Bus EXPO Conference & Trade Show and Green Bus Summit
July 23-27, 2016
Reno, NV
http://stnonline.com/expo/conference.html

CNG Fuel System Inspector Training
Sept. 7, 2016
Baton Rouge, LA
http://louisianacleanfuels.org/meetinginfo.php

National Drive Electric Week 2016
September 10-18, 2016
Event Registration to follow!

EV Tech Expo
Sept. 13-15, 2016
Novi, MI
www.evtechexpo.com

Natural Gas for High Horsepower Summit 2016
October 11-13, 2016
Chicago, IL
www.hhpsummit.com

New Clean Cities Resources Available!

Clean Fuel Partnership Recognizes Clean Fleet Leaders: Congratulations to our Clean Fuel Partnership fleets and partners who in 2015 eliminated the equivalent of 2.7 million gallons of gasoline and 18.3 tons of greenhouse gas emissions by utilizing alternative fuels and fuel saving technologies and programs! **Read More**

2016 Louisiana Alternative Fuels Conference & Expo: The 2016 Louisiana Alternative Fuels Conference and Expo welcomed over 100 sponsors, exhibitors, speakers, and attendees to a spectacular all-day event at the Cajundome Conference Center in April. **Read More**

Clean Cities Technical Response Service (TRS) Question of the Month: What is the AFLEET Tool, how can I use it to make decisions about alternative fuels, and what are the recent improvements? Argonne National Laboratory's AFLEET Tool allows fleets to examine both the environmental and economic costs and benefits of alternative fuel and advanced vehicles. **Read More**

AFV Mechanic Trainings: Call for Sponsors!

In coordination with the Dallas-Fort Worth Clean Cities and the National Alternative Fuels Training Consortium (NAFTC), the Southeast Louisiana Clean Fuel Partnership (SLCFP) will be offering a series of Alternative Fuel Mechanic Training Workshops including:

- Electric Drive Vehicle Automotive Technician Training
- Propane Autogas Vehicle Technician Training
- Heavy-Duty Natural Gas Vehicles Training

We are currently accepting sponsorships and commitments for vehicles to showcase from our Clean Fuel Partners to help support the growth of trained alternative fuel mechanics in our region!

For more information, please see the SLCFP Alt Fuel Mechanic Training Sponsorship Packet. If interested in sponsoring this event, showcasing your vehicle, or attending one of the trainings, please contact Rebecca Otte at: slcfp@norpc.org or (504) 483-8513.

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www.CleanFuelPartnership.org

Please Note: Webinar notices and upcoming conferences are provided for informational purposes only. Neither the Southeast Louisiana Clean Fuel Partnership nor the Regional Planning Commission is responsible for the information presented in the announcements, webinars, or conferences themselves. Please contact hosts for additional information on specific presentations.

Clean Fuel Partnership Recognizes Clean Fleet Leaders

Congratulations to our Clean Fuel Partnership fleets and partners who in 2015 eliminated the equivalent of 2.7 million gallons of gasoline (GGEs) and 18.3 tons of greenhouse gas (GHG) emissions by utilizing alternative fuels and fuel saving technologies and programs! The Clean Fuel Partnership's Annual Clean Fleet Leader Awards were presented by Paul Miller, Director of Louisiana Department of Natural Resources' (LDNR's) Technology Assessment Division, and Rebecca Otte, SLCFP Director, on June 14. Each organization submitted their information for the Clean Fuel Partnership's Annual Report to the US Department of Energy (USDOE) which will be compiled into the USDOE's Annual Clean Cities Annual Metrics Report.

Photo by Brad Baker; From L to R: Cedric Grant, City of New Orleans; Courtney Young, RPC; Dan Jatres, RPC; Karen Parsons, RPC; Emily Federer, Port of New Orleans; Scott Richoux, New Orleans Public Belt; Jeff Cantin, Solar Alternatives; Patricia Nussbaum, , LDNR; Chris Winebar, Nissan; Sharon Leader, Jefferson Parish; David Higgins, UPS; Paul Miller, LDNR; Scott Tregre, Park 'n Fly; David Corne, Entergy; Don Duvernay, Airport Shuttle; Jan Schexnayder, Atmos Energy; Aaron Dirks, Limousine Livery; Cynthia Lee-Sheng, Jefferson Parish Council; Rebecca Otte, RPC; Mike Yenni, Jefferson Parish; Matt Dearmon, Entergy

Highlights from our 2015 Clean Fleet Leader Awards include:

Transit: Congratulations to the **New Orleans Regional Transit Authority (RTA)** for saving over 1 million GGEs for the 2nd consecutive year by utilizing electric streetcars, biodiesel, hybrid-electric buses, and a tire inflation program to improve fuel economy. **Jefferson Parish Transit (JeT)** reduced over 8,400 GGEs with biodiesel.

Railroad Idle Reduction and Engine Right-Sizing: Partially funded by a grant from the Louisiana Department of Environmental Quality, **New Orleans Public Belt's** idle reduction system offset over 6,600 tons of emissions and *saved over $1,000,000 in fuel costs.* Though US Environmental Protection Agency Clean Diesel Grant in partnership with the Clean Fuel Partnership, **CSX Transportation's** GenSet engine saves an average of 10,000 gallons of diesel fuel annually and 137 tons of GHG emissions.

Commercial Work Vehicles: **Metro Disposal** and **Progressive Waste** collectively replaced over 460,000 GGEs and reduced emissions by nearly 400 tons by using natural gas to power their refuse vehicles. **UPS** includes the most diverse clean transportation commercial fleet in our region, reducing the use of traditional fuel by over 300,000 GGEs with natural gas and propane delivery trucks and using biodiesel in diesel equipment. UPS also implements fuel saving practices by reducing left turns and mapping the most efficient routes for their vehicles.

Atmos Energy and **Entergy** utilize natural gas for their fleets including passenger vehicles, forklifts and utility vehicles. Entergy also uses fleet tracking software to reduce vehicle miles travelled and incorporates electric vehicles in their fleet. Local plumbing company, **Doctor Pipe,** was recognized for running all 22 of their service vans on natural gas. Local solar company and electric vehicle charger installer **Solar Alternatives** includes both electric vehicles and hybrids in their fleet.

Reducing Vehicles on the Road: By encouraging the use of bicycles in lieu of vehicles, the **City of New Orleans** and the **Regional Planning Commission** reduced over 220,000 GGEs in 2015. The numbers were calculated with data collected in collaboration with the University of New Orleans Transportation Institute on the use of 19 dedicated and shared bike lanes.

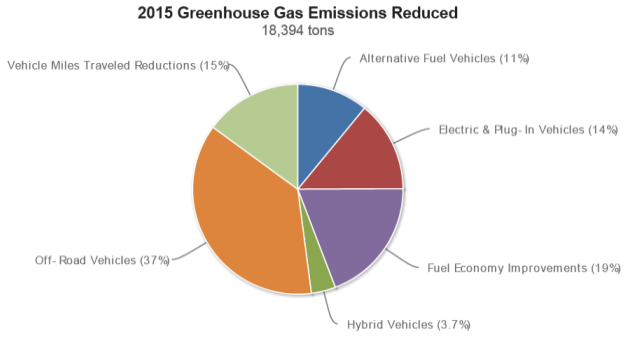
Passenger Fleets: **Airport Shuttle's** fleet of propane passenger vans and buses saved over 64,700 GGEs transporting visitors between the airport and downtown New Orleans, while **Park 'n Fly's** natural gas shuttles reduced over 9,000 GGEs connecting local airport passengers with parking. **Limousine Livery's** 17 propane vehicles (including three limousines) reduced over 10,800 GGEs; their Tesla Sedan saved an additional 1,051 GGEs. **Nissan North America** was recognized for increasing the number of all-electric Leafs in the region which resulted in over 5,000 GGEs reduced.

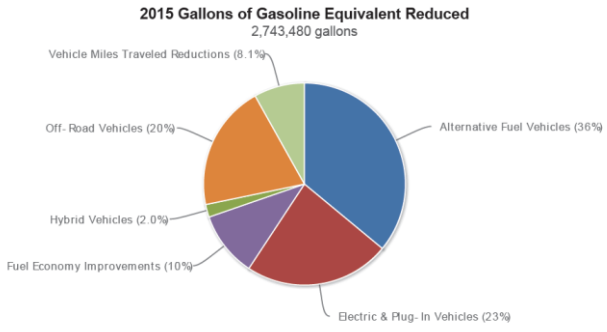
Public Fleets: Through an innovative financing program with Nissan, the **Port of New Orleans** purchased two all-electric Leafs in 2015 for staff use. This deal included the donation of two EV chargers. The Port also reduced 39 GGEs with their propane lawnmower. **Jefferson Parish's** fleet includes hybrid vehicles to reduce fuel consumption and air emissions during their day-to-day operations.

The 19 Clean Fleet Leaders were recognized at the Regional Planning Commission meeting. The audience included elected officials, transportation agencies, developers and the general public. Attendees also had the opportunity to view an electric vehicle charger provided by Telefonix. Paul Miller with LDNR provided opening remarks and congratulated the leaders on their accomplishments: "We have a great relationship with the Southeast Louisiana Clean Fuel Partnership. We're very proud within both LDNR and the State Energy Office to support it both financially and with technical assistance. Part of LDNR's mission is to promote the sustainable and responsible use of the State's natural resources. The work of the Clean Fuel Partnership furthers that mission."

Paul Miller with LDNR and Jeff Cantin with Solar Alternatives examine the Telefonix electric vehicle charger.

Rebecca Otte, Clean Fuel Partnership Director, voiced appreciation for LDNR's support and the work of the Clean Fleet Leaders: "We are very fortunate that our State Energy Office supports the Clean Fuel Partnership, which is not the case with every Clean Cities Coalition. We appreciate their support as well as the efforts of all of our Clean Fleet Leaders to expand the use of clean transportation in our region."





Congratulations to our 2015 SLCFP Clean Fleet Leaders!	
Fleet Name	**Fuel/Technology/Program**
Over 1,000,000 GGEs Reduced	
RTA	Electric Streetcars, Biodiesel, Hybrid-Electric Buses, Fuel Economy Improvements
100,000 -1,000,000 GGEs Reduced	
New Orleans Public Belt Railroad	Idle Reduction Technology
Metro Disposal	Natural Gas
UPS	Biodiesel, Natural Gas, & Propane
Regional Planning Commission & the City of New Orleans	Bike Lane Program/ Reduction in Vehicle Miles Travelled
Progressive Waste	Natural Gas
10,000 - 100,000 GGEs Reduced	
Airport Shuttle	Propane
Doctor Pipe	Natural Gas
Limousine Livery	Propane & Electric
CSX Transportation	Idle Reduction Technology
1,000 - 10,000 GGEs Reduced	
Park 'n Fly	Natural Gas
Jefferson Parish Transit	Biodiesel
Nissan North America	Electric
Entergy	Natural Gas, Electric, Hybrid-Electric, Fleet Telematics
Atmos Energy	Natural Gas
Solar Alternatives	Electric & Hybrid-Electric
Up to 1,000 GGEs Reduced	
Jefferson Parish	Hybrid-Electric
Port of New Orleans	Propane & Electric

Photos in this article by Brad Baker

2016 Louisiana Alternative Fuels Conference & Expo

The 2016 Louisiana Alternative Fuels Conference and Expo welcomed over 100 sponsors, exhibitors, speakers, and attendees to a spectacular all-day event at the Cajundome Conference Center in April. Mike Britt, UPS Director of Maintenance and Engineering for International Operations, provided the Keynote Address for the event highlighting UPS's diverse alternative fuel fleet and strategy for expanding their clean transportation initiatives in the future. Other speakers included John Gonzales, Senior Engineer for Advanced Vehicle Deployment at the National Renewable Energy Laboratory; Bill Davis with the National Alternative Fuels Training Consortium; and Greg Upton, Assistant Professor at the Center for Energy Studies, Louisiana State University. Rebecca Otte, Director of the Southeast Louisiana Clean Fuel Partnerhsip (SLCFP) also presented on funding opportunities for clean transportation projects.

Rebecca Otte (SLCFP), Ann Shaneyfelt (LCF), and Mike Britt (UPS) are all smiles for CNG delivery vehicles.

NAFTC's interactive, hybrid-electric mechanic training vehicle (Photo by: Thom Williamson)

This year's vehicle display was the largest yet, showcasing clean fuel vehicles from Amerigas, Alliance Autogas, Atmos Energy, ICOM, Republic Services, UPS, and Westport. The National Alternative Fuels Training Consortium (NAFTC) drove their Alternative Energy Learning Center trailer all the way from West Virginia to demonstrate their interactive, hybrid-electric training vehicle used to teach mechanics and technicians. Amerigas exhibited a propane, riding lawn mower, and Altec Eco featured their ZeroRPM idle reduction system installed on their Ford F-350 truck.

The 2016 Louisiana Alt Fuel Conference & Expo was hosted by Louisiana Clean Fuels (LCF) and the Southeast Louisiana Clean Fuel Partnership, the two US Department of Energy Clean Cities Coalitions in Louisiana, and supported by the Louisiana Department of Natural Resources. Sponsors included UPS, Entergy and Republic Services at the Gold Level; Ferrellgas, Alliance AutoGas, Atmos Energy and Altec Green Fleet at the Silver Level; and NAFTC and CleanFuel USA at the General Sponsor Level. Nissan sponsored the lanyards and conference bags were sponsored by Lightning Hybrids. If you were unable to make the event or couldn't attend one of the sessions, presentations are posted on the Clean Fuel Partnership's website: http://cleanfuelpartnership.weebly.com/events.html.

(Left) Attendees enjoy lunch and networking within the LAF Indoor Expo Hall and Vehicle Display; (Right) An informal propane discussion in the exhibit hall

Clean Cities Technical Response Service (TRS) Question of the Month: What is the AFLEET Tool? How can I use it to make decisions about alternative fuels? What are the recent improvements?

Argonne National Laboratory's **A**lternative **F**uel **L**ife-Cycle **E**nvironment and **E**conomic **T**ransportation (AFLEET) Tool allows fleets to examine both the environmental and economic costs and benefits of alternative fuel and advanced vehicles (https://greet.es.anl.gov/afleet). By entering data about their light- or heavy-duty vehicle(s), fleets can estimate petroleum use, greenhouse gas emissions, air pollutant emissions, and cost of ownership.

AFLEET uses data from Argonne's Greenhouse gases, Regulated Emissions, and Energy use in Transportation (GREET) model and the U.S. Environmental Protection Agency's (EPA) Motor Vehicle Emissions Simulator (MOVES) model to estimate life cycle (well-to-wheel) air pollutant emissions. Users can either use the model's default values or for more accurate results, customize the tool with the fleet's real life data. By using AFLEET's simple input mechanism, users can:

- Determine the incremental cost and potential return on investment of buying alternative fuel vehicles.
- Calculate emissions savings of replacing a conventionally fueled fleet with alternative fuel vehicles.
- Document costs and emissions savings for potential projects when applying for funding.

How can Fleets Benefit?

The AFLEET Tool provides information to fleets such as:

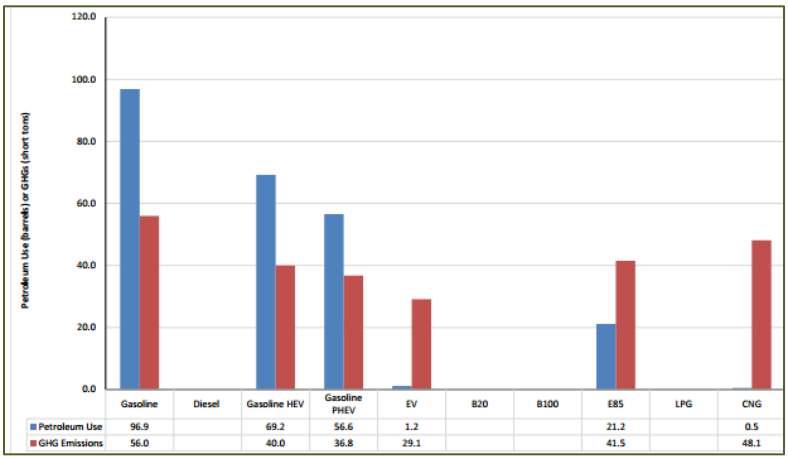
- Simple Payback Calculator –The basic return on investment (ROI) of purchasing an alt fuel vehicle for a quick analysis of costs
- More In-Depth Evaluation: Adjust for fuel price fluctuations; Include the cost of fueling infrastructure, fueling labor costs, and maintenance in the cost analysis
- Presentation of information in table and graph format
- Emissions data for grant proposals

AFLEET's recent updates include more recent emissions data and new features to help users formulate a more complete picture of the costs and benefits of alternative fuels. Other updates include:

- **Fuel Prices:** AFLEET uses public and private station pricing based on the 2015 average Clean Cities Alternative Fuel Price Report data (www.afdc.energy.gov/fuels/prices.html). In addition, fuel pricing is now state-based rather than based on a national average. Users may also input a range of fuel prices to determine effects on simple payback models.
- **Infrastructure Costs:** The updated version of AFLEET features data on fueling station and electric vehicle supply equipment infrastructure construction, operation, and maintenance costs. Users may also calculate other infrastructure-related costs, such as public station out-of-route mileage and fueling labor costs.
- **Latest Vehicle and Emission Data:** AFLEET uses the latest GREET 2015 air pollutant emissions data, which includes updated heavy-duty fuel economy and emissions data, data for fuel cell electric vehicles, and updated life cycle data for renewable natural gas. AFLEET has also been updated to use the most recent version of EPA's MOVES data, 2014a.

- **Externality Costs:** ALEET output data now includes externality costs of national petroleum use and greenhouse gas emissions. Externality costs are the indirect damages associated with fuels that are not explicitly captured by the marketplace (e.g., property damages from increased flood risk as a result of climate change). Externality cost estimates will be useful in putting local vehicle and fleet decisions in a national perspective.

AFLEET Tool Screenshot – Payback Outputs Sheet
Annual Light-Duty Vehicle Energy Use and Greenhouse Gas Emissions Summary Graph
Comparing a Gasoline Vehicle to Equivalent Hybrid-Electric, Plug-In Hybrid, All-Electric, E85 and Compressed Natural Gas Models



For information about and instructions for using AFLEET, refer to Argonne's AFLEET User Guide found under **Download tool and documentation** on Argonne's website: https://greet.es.anl.gov/afleet.

In addition, check out the Alternative Fuels Data Center's (AFDC) fuel-specific emissions pages for information on the emissions impacts of the various alternative fuels:

- Biodiesel: www.afdc.energy.gov/vehicles/diesels_emissions.html
- Electricity: www.afdc.energy.gov/vehicles/electric_emissions.php
- Ethanol: www.afdc.energy.gov/vehicles/flexible_fuel_emissions.html
- Hydrogen: www.afdc.energy.gov/vehicles/emissions_hydrogen.html
- Natural Gas: www.afdc.energy.gov/vehicles/natural_gas_emissions.html
- Propane: www.afdc.energy.gov/vehicles/propane_emissions.html

Information in this article provided by:
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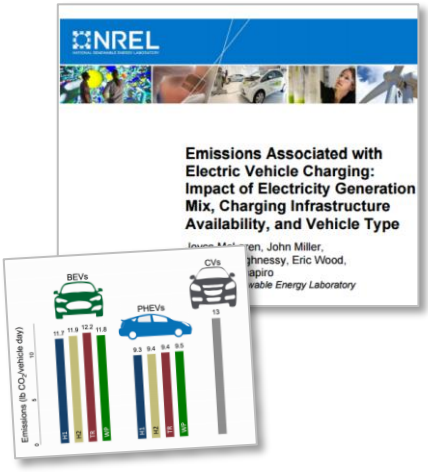
New Clean Cities Resources Available

Latest Edition of Fuels Fix Now Available!

Fuels Fix, produced by the nationwide network of Clean Cities Coalitions, highlights fleets that have successfully executed clean transportation projects and provides technical information and resources for fleets interested in exploring clean transportation options. In addition to featuring articles on propane for transit agencies and driverless cars, the Fuels Fix Spring 2016 Edition also includes an article on EV Day NOLA 2015, New Orleans' electric vehicle expo held last fall (Page 13).

New Case Study – Propane Bakery Delivery Step Vans

Propane is a promising alternative fuel for a number of transportation applications because it is widely available, even in rural areas, and it can cost less than diesel or gasoline. This report, Case Study – Propane Bakery Delivery Step Vans, highlights Alpha Baking's step van fleet in the Chicago area. In 2013, they deployed 22 step vans equipped with ROUSH CleanTech's dedicated propane system to replace their existing fleet of diesel trucks. This report presents major findings including costs savings, payback period, typical usage, and energy & environmental impacts.

New Findings on Electric Vehicle Charging

The National Renewable Energy Laboratory presents Emissions Associated with Electric Vehicle Charging: Impact of Electricity Generation Mix, Charging Infrastructure Availability, and Vehicle Type. This technical report, as part of the US Dept. of Energy's EV Everywhere Workplace Charging Challenge Initiative, explains the influences leading to carbon dioxide emissions from light-duty, plug-in electric vehicles (PEVs) and provides an analysis of anticipated emissions from plug-in hybrid electric vehicles (PHEVs).