

**North Central Texas  
Council of Governments**



**Dallas-Fort Worth  
CLEAN CITIES**

# **Public Works Fleet Planning – Decision-making Tools & Funding**

**Amy Hodges  
Senior Air Quality Planner**

**September 17, 2020**

# Dallas-Fort Worth Clean Cities (DFWCC)

## Who We Are

- North Central Texas Council of Governments (NCTCOG)
- Metropolitan Planning Organization (MPO) for DFW Region
- Dallas-Fort Worth Clean Cities Coalition (DFWCC)

## DFWCC - Advance Economic, Environmental, and Energy Security

- Reduce Petroleum Consumption – “Reduce, Replace, Eliminate”
- Partner with Public and Private Fleets
- Structure

Fleet & Commercial Strategies

Consumer Initiatives

Local Government Policies / Community Readiness

## Fleet Support - Enable More Efficient, Greener Fleets

- Match Vehicles & Equipment to Funding
- Train on Tools and Resources
- Plan for Fleet Transition – Detailed Recommendations



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# Today's Topics

## Tools & Resources

- Funding Information
- Find Vehicles and Refueling Stations
- Estimate Simple Payback

## Grants – Local Support for Grants

- Step 1: Vehicle Data Provided by Fleet
- Step 2: Grant Options Provided by DFWCC
- Step 3: Decide on Grant and Apply

DFWCC Can Assist! [cleancities@nctcog.org](mailto:cleancities@nctcog.org)



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# Resources - Funding

NCTCOG Funding List – All Available Funding

[nctcog.org/aqfunding](http://nctcog.org/aqfunding)



Sign-Up for Email Updates

TCEQ TERP Funding – All TERP Programs

[terpgrants.org](http://terpgrants.org)

TX Volkswagen Environmental Mitigation Program (TxVEMP)

[texasvwfund.org](http://texasvwfund.org)

Fuel Economy Website – Light-Duty Vehicle Information

[fueleconomy.gov](http://fueleconomy.gov)



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# Resources – NCTCOG Funding Webpage

[nctcog.org/aqfunding](http://nctcog.org/aqfunding)

[Home](#) > [Transportation](#) > [Quality of Life](#) > [Air Quality](#) > [Funding and Resources](#)

## Funding and Resources

### Funding

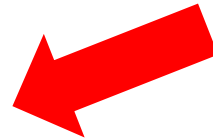
Funding for projects that address air quality, such as clean vehicle projects, are available from a number of federal, state, local, and non-profit entities.



Funding for Consumer Vehicle Purchases



Funding for Fleet Vehicle Projects



Funding for Other Air Quality Improvement Strategies

### Hot Topics

- Volkswagen Settlement



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# Resources – NCTCOG - [nctcog.org/aqfunding](https://nctcog.org/aqfunding)

## Funding for Fleet Vehicle Projects

Program/Incentive	Eligible Activities	Funding Amount	Deadline
AmeriGas Clean Community Grant	Grants for new purchases of propane-powered school buses	\$2,500 - \$5,000 per Purchase, Minimum Three (3)	One Application Annually
Fuel Cell Motor Vehicle Tax Credit *	Light -, medium -, and heavy - duty vehicles and fuel cell vehicles	Up to \$8,000	December 31, 2020
IC Bus Grant Program	Grants for new purchases of propane-powered CE series school buses	\$5,000 per Purchase	Until all Funds are Awarded
Plug - In Electric Drive Vehicle Credit *	EV passenger vehicles, light-duty trucks, and certain 2 and 3 wheeled vehicles	\$2,500 - \$7,500 per New passenger vehicles and light - duty trucks EVs and PHEVs purchased -- 10% of cost of vehicle up to \$2,500 for 2 and 3 wheeled vehicle purchased	Phases out based on manufacturer market sales
Seaport and Rail Yard Areas Emissions Reduction (SPRY) Program	On-road Vehicles, Non-road Yard Trucks, or Other Cargo Handling Equipment  <i>*Requires scrappage of old vehicle/equipment</i>	Up to 80% of the Cost to Replace or Repower Eligible Vehicles or Equipment	February 12, 2021 by 5 P.M. CT
Texas Light-Duty Motor Vehicle Purchase or Lease Incentive Program *	Light-duty EV, PHEV, Hydrogen, CNG, or LPG vehicles purchased in Texas	Up to \$2,500 for Electric or Hydrogen -- Up to \$5,000 for CNG or LPG	First-come first-served until January 7, 2021 or until all funds are awarded
Texas Natural Gas Vehicle Grant Program	Natural gas or propane vehicle/engine  <i>*requires scrappage of diesel or gasoline vehicle/engine</i>	Up to 90% of the Incremental Cost	First Come First Served Until February 26, 2021 or all Funds are Awarded
Texas Volkswagen Environmental Mitigation Program	Refuse Vehicles: Garbage, Roll-off, Dump, Sweeper, Chipper, and Grapple Trucks -- Class 4-8 Freight Vehicles and Class 8 Port Drayage Vehicles.	Determined by Maximum Grant Amount Tables	First Come First Served Until October 8, 2020 or all Funds Awarded -- First Come First Served Until January 27, 2021 or all Funds Awarded

## High-Level View of All Funding Links to Grant Programs



**FUNDING FOR NEW VEHICLE PURCHASES**



**FUNDING FOR DIESEL VEHICLE REPLACEMENTS**



**FUNDING FOR NON-VEHICLE AIR QUALITY IMPROVEMENT PROJECTS**



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# Resources - TxVEMP – Currently Available Funding

## Refuse Vehicles

**Eligibility: Engine Model Year 1992 – 2009, Diesel Trucks, Greater Than 26,001 Pounds**

**Must Be Configured To Collect And Transport Municipal Solid Waste; Includes Garbage Trucks, Roll-off Trucks, Dump Trucks, Sweeper Trucks, Chipper Trucks, and Grapple Trucks**

**Grants Awarded on First-Come, First-Served Basis**

**Application Deadline: **October 8, 2020****

**DFW Area Funds Remaining: ~\$4.7 M\***

## Local Freight and Port Drayage Vehicles

**Eligibility: Engine Model Year 1992 – 2009, Diesel Trucks, Greater Than 14,000 Pounds**

**Must Be Used To Deliver Cargo and Freight**

**Grants Awarded on First-Come, First-Served Basis**

**Application Deadline: January 27, 2021**

**DFW Area Funds Remaining: ~\$2.7 M\***

**Government-Owned Vehicles: Up to 80%**

\*Based on Publicly Posted Information as of 7/29/2020

# Resources - TxVEMP – Currently Available Funding

## Zero Emission Vehicle (ZEV) Supply Equipment Grants

**Eligible Applicants:** Governments, Individuals, Corporations, Organizations

**Eligible Activities:** Purchase and Install Level 2 Charging Stations for Light-Duty Vehicles

- Up to \$2,500 per Installation Not to Exceed:
  - Electric Chargers Available to Public: 70%
  - Electric Chargers Available to Workplace or Multi-Unit Dwelling: 60%
- Level 2 charging equipment must:
  - Offer SAE J1772 Connector
  - Include a dual mount pedestal with charge connect height of < 48” and > 24”
  - Utilize Open Source Software Where Payment is Required

**First-Come, First-Served; \$10.4 Million Available Statewide**

**Application Deadline: September 9, 2021**

[texasvwfund.org](https://texasvwfund.org)



# Resources - www.fueleconomy.gov

www.fueleconomy.gov

the official U.S. government source for fuel economy information

Mobile Español Site Map Links FAQ Videos

Find a Car Save Money & Fuel Benefits My MPG Advanced Cars & Fuels About EPA Ratings More Q



## 2020-21 Fuel Economy Estimates Now Available!

Includes plug-in hybrid and electric vehicles  
Fuel economy leaders for each vehicle class  
More vehicles added weekly

### Find & Compare Cars



Compare Side-by-Side  
Power Search  
Find-a-Car App

### My MPG



Calculate or Share Your MPG  
Estimates from Drivers Like You  
Enter Your MPG at the Pump

### Save Money



Gas Mileage Tips  
Fuel Cost Calculator  
Find the Cheapest Gas

### Hybrids & Electrics



Hybrids  
Plug-in Hybrids  
All-Electric Vehicles

### Calculators and Other Tools

Fuel Savings Calculator  
Trip Calculator  
Can a Hybrid Save Me Money?  
My Plug-in Hybrid Calculator  
Used Car Label Tool  
Developer Tools  
Find a Car Widget

### New on fueleconomy.gov...

2020-21 Fuel Economy Guide  
2020-21 Fuel Economy Data  
2020 Best and Worst Fuel Economy  
2020 Top Ten Vehicle Lists  
Compare Old vs. New MPG for 1984-2016 Vehicles

### Quick Picks




Find a Car App for Apple and Android  
Top 10 - Most Efficient Vehicles, Myths and More  
Compare Old vs. New EPA MPG  
Find a SmartWay Vehicle  
Extreme MPG  
Motorweek Videos

### Related Links

VW, Bentley, Audi and Porsche MPG Estimates Revised  
Clean Cities  
Alternative Fuels Data Center  
Vehicle Cost Calculator  
Station Locator  
EV Explorer

## Compare Fuel Economy, Price, Safety and More

### Compare Side-by-Side

Fuel Economy	Energy and Environment	Safety	Specs
<p>Personalize</p> <p>2020 Ford Fusion FWD</p> <p>Gasoline Vehicle</p>  <p>1.5 L, 4 cyl, Automatic (S6), Turbo</p> <p>MSRP: \$23,170 - \$34,450</p>	<p>2020 Ford Fusion Energi Plug-in Hybrid</p> <p>Plug-in Hybrid Vehicle Gasoline-Electricity</p>  <p>2.0 L, 4 cyl, Automatic (variable gear ratios)</p> <p>MSRP: \$37,000</p> <p>Plug-in Hybrid Calculator</p> <p>Possible Tax Break</p>	<p>2020 Chevrolet Bolt EV</p> <p>Electric Vehicle</p>  <p>Automatic (variable gear ratios)</p> <p>MSRP: \$36,620 - \$41,020</p>	
<p>EPA Fuel Economy</p> <p>1 gallon of gasoline=33.7 kWh</p> <p>27 MPG combined city/highway</p> <p>3.7 gal/100mi</p> <p>Show electric charging stations near me</p> <p>Gasoline</p> <p>446 miles Total Range</p>	<p>Elec + Gas</p> <p>103 MPGe combined city/highway</p> <p>0.0 gal/100mi of gas + 33 kWh/100mi</p> <p>Gasoline Only</p> <p>26 miles Elec + Gas All Elec: 0-26 mi</p> <p>About Plug-in Hybrid Cars</p>	<p>Reg. Gas</p> <p>42 MPG combined city/highway</p> <p>2.4 gal/100mi</p> <p>Electricity</p> <p>118 MPGe combined city/highway</p> <p>29 kWh/100 mi</p> <p>259 miles Total Range</p> <p>About All-Electric Cars</p>	
<p>Unofficial MPG Estimates from Vehicle Owners</p> <p>User MPG estimates are not yet available for this vehicle</p> <p>Learn more about "My MPG" Disclaimer</p>	<p>User MPG estimates are not yet available for this vehicle</p>	<p>User MPG estimates are not yet available for this vehicle</p>	
<p>You save or spend*</p> <p>Note: The average 2020 vehicle gets 27 MPG</p>	<p>You SAVE \$0 in fuel costs over 5 years compared to the average new vehicle</p>	<p>You SAVE \$2,750 in fuel costs over 5 years compared to the average new vehicle</p>	<p>You SAVE \$3,500 in fuel costs over 5 years compared to the average new vehicle</p>
<p>Annual Fuel Cost*</p> <p>\$2.06</p>	<p>\$1,250</p>	<p>Electricity + Gasoline: \$700</p> <p>\$1.07 (on a single charge)</p>	<p>\$550</p> <p>\$0.93</p>
<p>Cost to Drive 25 Miles</p> <p>\$37</p>	<p>\$2.06</p>	<p>\$1.32 (driving on gas only)</p>	<p>\$0.93</p>
<p>Cost to Fill the Tank</p> <p>Tank Size</p> <p>16.5 gallons</p>	<p>\$37</p>	<p>\$31 (gas only)</p> <p>14.0 gallons</p>	<p>\$31 (gas only)</p> <p>14.0 gallons</p>

\*Based on 45% highway, 55% city driving, 15,000 annual miles and current fuel prices. Personalize. MSRP and tank size data provided by Edmunds.com, Inc. Range on a tank and refueling costs assume 100% of fuel in tank will be used before refueling.

# Transition to a Greener, More Efficient Fleet

## Overall Efficiency Gains

**Reduce Idling → Fuel Savings, Less Emissions**

**Downsize Fleet – Eliminate Underutilized Assets  
→ Lower Costs**

**Right-size Vehicles to Operational Needs  
→ Lower Costs, Less Emissions**

## Light-Duty Vehicle Analysis

**Analyze Daily Miles – Opportunity to Electrify?**

# Grants – Local Support

## Step 1: Provide Us With Vehicle/Equipment Information

Template in Excel Provided

Vehicles: Description, Engine Year, Make, Model, Fuel Type, GVWR

Example:

Identifying Number	Vehicle Description	Engine Year	Chassis Make	Chassis Model	Fuel Type	GVWR
12345678901234567	Dump Truck	2000	Mack	RD590S	Diesel	34,000
23456789012345678	Box Truck	1998	Freightliner	FL70	Diesel	18,000

Equipment: Description, Engine Year, Make, Model, Fuel Type, HP

Example:

Equipment Description	Engine Year	Make	Model	Fuel Type	Horsepower
Rubber Tire Loader	1999	Case	621C	Diesel	135
Excavator	2006	Caterpillar	312CL	Diesel	91



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# Grants – Local Support

## Step 2: Grant Options Provided by DFWCC in Excel

Example:

				Grant Program:	<a href="#">Emissions Reduction Incentive Grants Program</a>	<a href="#">Texas Clean Fleet Program</a>	<a href="#">Texas Natural Gas Vehicle Grant Program</a>	<a href="#">Rebate Grants Program</a>
				Program Status:	Anticipated Summer 2020	Open; Deadline June 30, 2020	Open; Deadline February 26, 2021	Expected to open July 21, 2020
				Apply to:	TCEQ	TCEQ	TCEQ	TCEQ
MAKE/MODEL	FUEL TYPE	GVWR	ASSUMED ENGINE MODEL YEAR	Eligible Project Types:	<p>Replace, repower, (new) purchase or lease, or retrofit or add-on of emission-reduction technology, heavy-duty vehicles</p> <p><b>Funding:</b> Up to 80% of the new replacement vehicle or engine minus \$1,000 scrap for replacements and \$250 scrap for repowers, capped at \$17,500 per ton NOx reduced</p> <p><b>For new purchase or lease (i.e. no scrappage),</b> funds will pay for the cost difference between the manufacturer's suggested retail price of a baseline vehicle certified to the current federal NOx emission standards and the actual cost of the cleaner vehicle. Program will reimburse up to 100 % of the cost difference between the baseline vehicle and the cleaner vehicle, capped at \$17,500 per ton NOx reduced.</p>	<p>Replace or repower at least 10 light-duty or heavy-duty diesel vehicles with hybrid or alternative fuel. <b>Organization must have a fleet size of at least 75 vehicles (including all fuels)</b></p> <p><b>Funding:</b> Up to 80% of the new replacement vehicle or engine minus \$1,000 scrap for heavy-duty vehicles and \$500 scrap for light-duty vehicles; Applications are scored competitively based pm cpst [er tpm pf MPx reduced and other factors.</p>	<p>Replace or repower diesel or gasoline, medium- or heavy-duty vehicle with natural gas or propane from list of eligible vehicles, engines and conversion systems</p> <p><b>Funding:</b> Up to 90% of the new replacement vehicle or engine minus \$1,000 scrap for replacements and \$250 scrap for repowers</p>	<p>Replace or repower heavy-duty diesel vehicles</p> <p><b>Funding:</b> Up to 80% of new replacement vehicle or engine minus \$1,000 scrap for replacements and \$250 scrap for repowers, not to exceed maximum rebate amount.</p> <p>Values are based on the maximum rebate grant tables from the FY2019 rounds and are subject to change for the next funding round</p>
1989 VOLVO DUMP TRUCK	DIESEL	28,000	1988	5-Year Activity Life: Up to \$62,000 7-Year Activity Life: Up to \$87,000	Eligible for up to \$107,200	\$107,192	5-Year Activity Life: Up to \$34,232 7-Year Activity Life: Up to \$47,924	
1990 VOLVO DUMP TRUCK	DIESEL	28,000	1989	5-Year Activity Life: Up to \$61,500 7-Year Activity Life: Up to \$86,000	Eligible for up to \$107,200	\$107,192	5-Year Activity Life: Up to \$34,232 7-Year Activity Life: Up to \$47,924	
1991 VOLVO DUMP TRUCK	DIESEL	28,000	1990	5-Year Activity Life: Up to \$33,800 7-Year Activity Life: Up to \$47,300	Eligible for up to \$107,200	\$64,976	5-Year Activity Life: Up to \$18,988 7-Year Activity Life: Up to \$26,584	
1990 VOLVO DUMP TRUCK	DIESEL	28,000	1989	5-Year Activity Life: Up to \$61,500 7-Year Activity Life: Up to \$86,000	Eligible for up to \$107,200	\$107,192	5-Year Activity Life: Up to \$34,232 7-Year Activity Life: Up to \$47,924	

# Grants – Local Support

## Step 3: Decide on Grant and Apply

### Things to Consider

- Fuel Type Required for New Vehicle  
Vehicle Availability for Fuel Type  
Refueling Availability
- Amount of Possible Grant
- Simple Payback – AFLEET Online, AFLEET Tool (xls)
- Total Cost of Ownership – AFLEET Tool (xls)
- DFWCC Assistance - [cleancities@nctcog.org](mailto:cleancities@nctcog.org)

### Grant Applications

Tools – AFLEET Online, AFLEET Tool (xls)



# Tools & Resources

DFWCC - [dfwcleancities.org/](http://dfwcleancities.org/)



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# Tools & Resources – Alternative Fuel Information

Alternative Fuels Data Center - <https://afdc.energy.gov/>

The screenshot shows the homepage of the Alternative Fuels Data Center (AFDC). At the top, it features the U.S. Department of Energy logo and navigation links for 'EERE Home', 'Programs & Offices', and 'Consumer Information'. Below this is a search bar with the text 'Search the AFDC' and a 'SEARCH' button. A green navigation bar contains categories: 'FUELS & VEHICLES', 'CONSERVE FUEL', 'LOCATE STATIONS', 'LAWS & INCENTIVES', 'Maps & Data', 'Case Studies', 'Publications', 'Tools', 'About', and 'Home'. The main content area is divided into several sections: 'Fuels & Vehicles' with icons for Biodiesel, Electricity, Ethanol, Hydrogen, Natural Gas, and Propane; 'Information by State' with a map of the U.S. and a state selection dropdown; 'Information by Fleet Application' with icons for Delivery Services, Refuse Collection, Public Transit, and School Transportation; 'Maps & Data' with a list of links and a 'Fuel Prices' line graph; and 'Tools' with links for 'Laws & Incentives', 'Electricity Sources & Emissions', 'Vehicle Cost Calculator', and 'Vehicle Search'. A 'Station Locator' map of the U.S. is also visible, along with a link to download an iPhone or Android app.

Learn About a Fuel



Find a Vehicle

Find Refueling Stations



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# Tools & Resources – Find Alt Fuel Vehicles

**Vehicles by Type**

- Sedan/Wagon
- Pickup
- SUV
- Step Van
- Vocational/Cab Chassis
- Street Sweeper
- Tractor
- Passenger Van/Shuttle Bus
- Transit Bus

**Vehicles by Manufacturer**

- Light-Duty
- Medium- and Heavy-Duty
- Medium- and Heavy-Duty
- ENGINE & POWER SOURCES

**Pick Fuel/Technology Available for Vocational/Cab Chassis**

- All
- Biodiesel (B20)
- Ethanol (E85)
- LNG - Liquefied Natural Gas
- CNG - Compressed Natural Gas
- CNG - Bi-fuel
- Propane
- Propane - Bi-fuel
- Electric
- Hybrid Electric
- Hybrid - Diesel Electric

**SEARCH**

EERE » AFDC » Tools » Vehicle Search

Printable Version



## Alternative Fuel and Advanced Vehicle Search

Find and compare alternative fuel vehicles (AFVs), engines, and hybrid/conversion systems. Some of the light-duty AFVs may count toward vehicle-acquisition requirements for [federal fleets](#) and [state and alternative fuel provider fleets](#) regulated by the Energy Policy Act (EPA).

Download a complete list:

[Light-Duty Vehicles](#)

[All Vehicles](#)

Search Results - 1 - 8 of 32 vehicles

New Search | Download | Print

Filter by: Fuel/Technology: CNG - Compressed Natural Gas | Class/Type: Vocational/Cab Chassis | Manufacturer: All

View:

Refine Your Search

**Fuel/Technology**

- All Fuels
- Biodiesel (B20)
- Ethanol (E85)
- Hydrogen Fuel Cell
- LNG - Liquefied Natural Gas
- CNG - Compressed Natural Gas
- CNG - Bi-fuel
- Propane
- Propane - Bi-fuel
- Electric
- Plug-in Hybrid Electric
- Hybrid Electric
- Hybrid - Diesel Electric

**Class/Type**

- All Classes/Types
- Sedan/Wagon
- Pickup
- SUV
- Van
- Step Van
- Vocational/Cab Chassis
- Street Sweeper
- Refuse
- Tractor
- Passenger Van/Shuttle Bus
- Transit Bus
- School Bus

**Manufacturer - Light-Duty** +

**Manufacturer - Med & Heavy-Duty** +

### Autocar ACMD-Xpert



LNG - Liquefied Natural Gas / CNG - Compressed Natural Gas

Transmission: Allison  
Power Source(s):  
Cummins Westport L9N 8.9L Near Zero

### Autocar ACX-Xpeditor



LNG - Liquefied Natural Gas / CNG - Compressed Natural Gas

Transmission: Allison  
Power Source(s):  
Cummins Westport L9N 8.9L Near Zero  
Cummins Westport ISX12N 11.9L Near Zero

### Autocar DC-64



LNG - Liquefied Natural Gas / CNG - Compressed Natural Gas

Transmission: Allison  
Power Source(s):  
Cummins Westport ISX12N 11.9L Near Zero

### Chevrolet 3500/4500 Low Cab Forward



Propane - Bi-fuel / CNG - Bi-fuel / CNG - Compressed Natural Gas / Propane

Power Source(s):  
GMC 6.0L V8  
Note: GM offers a 6.0L "prep ready" engine for organizations wanting to convert this vehicle to propane or natural gas operation.

### Chevrolet Express 3500/4500 Cutaway



CNG - Bi-fuel / CNG - Compressed Natural Gas / Propane / Propane - Bi-fuel / Ethanol (E85)

### Chevrolet Silverado 3500 HD Cab Chassis



CNG - Compressed Natural Gas / CNG - Bi-fuel

**Pick a Vehicle Type and Fuel for List of Vehicles**





# Tools & Resources- Find Alt Fuel Stations

EERE • AFDC • Locate Stations

### Alternative Fueling Station Locator

Find alternative fueling stations in the United States and Canada. For U.S. stations, see [data by state](#). For Canadian stations in French, see [Natural Resources Canada](#).

Due to coronavirus (COVID-19), some alternative fueling stations may be closed or restricted at this time. Drivers should call stations to verify access and hours of operation before visiting.

Public Stations **Advanced Filters** Corridor Measurement 37,458 results in U.S. and Canada

Enter location  All Fuels

Legend

- Biodiesel
- CNG
- Electric
- Ethanol
- Hydrogen
- LHG
- Propane

iPhone App for U.S. stations Android App for U.S. stations Developer APIs Embed Tool Submit New Station About the Data

EERE • AFDC • Locate Stations

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Find alternative fueling stations in the United States and Canada. For U.S. stations, see [data by state](#). For Canadian stations in French, see [Natural Resources Canada](#).

Due to coronavirus (COVID-19), some alternative fueling stations may be closed or restricted at this time. Drivers should call stations to verify access and hours of operation before visiting.

Public Stations **Advanced Filters** Corridor Measurement U.S. and Canada

dallas, texas  Compressed Natural Gas

- A** Clean Energy - Downtown Dallas 1.0 mi  
100 N Riverfront Blvd  
Dallas, TX 75207
- B** Clean Energy - Downtown Dallas 1.0 mi  
801 S Riverfront Blvd  
Dallas, TX 75207
- C** Clean Energy - Dallas Service Center 1.2 mi  
1616 Baylor St  
Dallas, TX 75226
- D** Clean Energy - Dallas - Love Field Airport 5.4 mi  
8010 Denton Dr  
Dallas, TX 75235

Map showing stations A through J in the Dallas area.

© MapTiler © OpenStreetMap contributors

More Specific Location and Station Search

Map Stations Along a Route

Basic Search by Location and Fuel



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# Tools & Resources – Alternative Fuel Information

U.S. DEPARTMENT OF **ENERGY** | Energy Efficiency & Renewable Energy

EERE Home | Programs & Offices | Consumer Information

## Alternative Fuels Data Center

Search the AFDC

**FUELS & VEHICLES** CONSERVE FUEL LOCATE STATIONS LAWS & INCENTIVES

Maps & Data Case Studies Publications Tools About Home

[EERE](#) » [AFDC](#) » [Fuels & Vehicles](#) » [Natural Gas](#)

 [Printable Version](#)

Natural Gas Basics

Benefits & Considerations

Stations

Vehicles

Laws & Incentives

## Natural Gas

Natural gas, a domestically produced gaseous fuel, is readily available through the [utility infrastructure](#). Whether produced via [conventional](#) or [renewable](#) methods, this clean-burning alternative fuel must be compressed or liquefied for use in vehicles.



### Basics ▶

Find information about natural gas, including production and distribution.



### Benefits and Considerations ▶

Explore the benefits and considerations of using natural gas as a vehicle fuel.



### Stations ▶

Locate natural gas fueling stations in your area and learn about natural gas fueling infrastructure.



### Vehicles ▶

Learn about natural gas vehicles and how they work, and find information about vehicle availability, conversions, emissions, maintenance, and safety.



### Laws and Incentives ▶

Find laws and incentives related to natural gas in your area.

## Fuel Prices ▶

Find natural gas fuel prices and trends.



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# Tools & Resources – Estimate Emissions and Vehicle Costs

<https://afleet-web.es.anl.gov/home/>

## Simple Payback

- Easy Online Tool
- Useful Only When AFV Costs More Than Diesel
- Uses 2018 Maintenance Costs



## Welcome To AFLEET

The Department of Energy's Technology Integration Program has enlisted the expertise of Argonne to develop a tool to examine both the environmental and economic costs and benefits of alternative fuel and advanced vehicles (AFVs). Argonne developed the Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET) Tool to help stakeholders estimate petroleum use, greenhouse gas (GHG) emissions, air pollutant emissions, and cost of ownership of light-duty and heavy-duty vehicles.

## Total Cost of Ownership, Idle Reduction and More

- Excel Spreadsheet
- Customizable Inputs
- Uses 2019 Maintenance Costs



### AFLEET Tool (xls)

The AFLEET spreadsheet provides detailed energy, emission, and cost data for light- and heavy-duty AFVs. It has the following 4 calculators depending on the users goals:

- Simple Payback
- Total Cost of Ownership
- Idle Reduction
- Fleet Footprint



### AFLEET Online

AFLEET Online replicates the spreadsheet's Simple Payback Calculator with a user-friendly interface and analyzes the following metrics:

- Petroleum use
- Greenhouse gas emissions
- Air pollutant emissions
- Simple payback.



### HDVEC

The Heavy Duty Vehicle Emissions Calculator (HDVEC) is an AFLEET-based online tool that compares NOx, PM, GHGs and funding cost-effectiveness of environmental mitigation projects for the following fuel types:

- Diesel
- Electric
- Natural Gas
- Propane

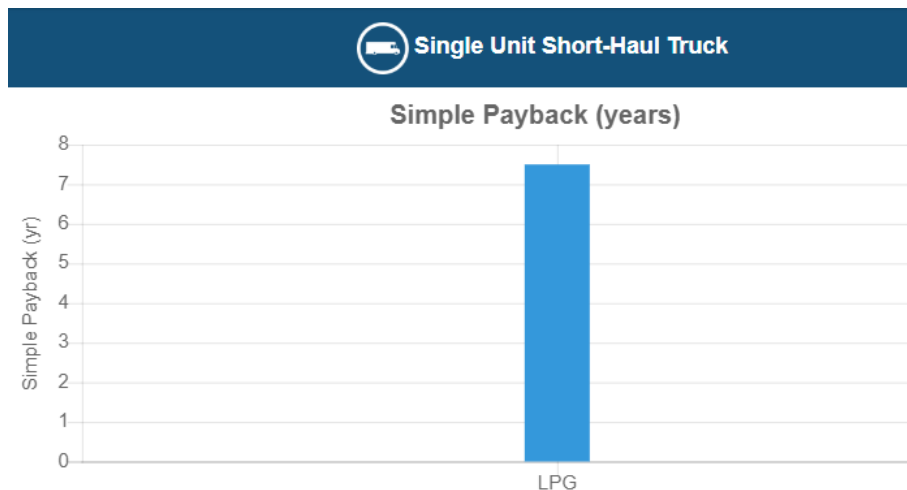


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# Tools & Resources – Simple Payback

## Short-Haul Truck Example Comparing Diesel, Propane

- Start New Project
- Select Vehicle Type – [Single Unit Short-Haul Truck](#)
- Pick Fuels to Compare to Diesel – [LPG](#)
- Update if Desired:
  - Fuel Economy, Purchase Price, Fuel Prices, Annual Mileage
- Vehicle Options - Set State to [Texas](#)
- Fuel Prices - [Diesel \\$1.98](#), [LPG \\$0.86](#)



Payback is 7.5 years



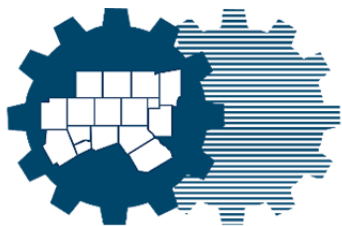
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# FOR MORE INFORMATION

**Amy Hodges**  
**Senior Air Quality Planner**  
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