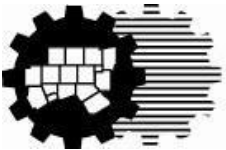


Clean Fleets North Texas 2020 Call for Projects

October 22, 2020 Webinar
(Updated: November 5, 2020)

Amy Hodges
Senior Air Quality Planner

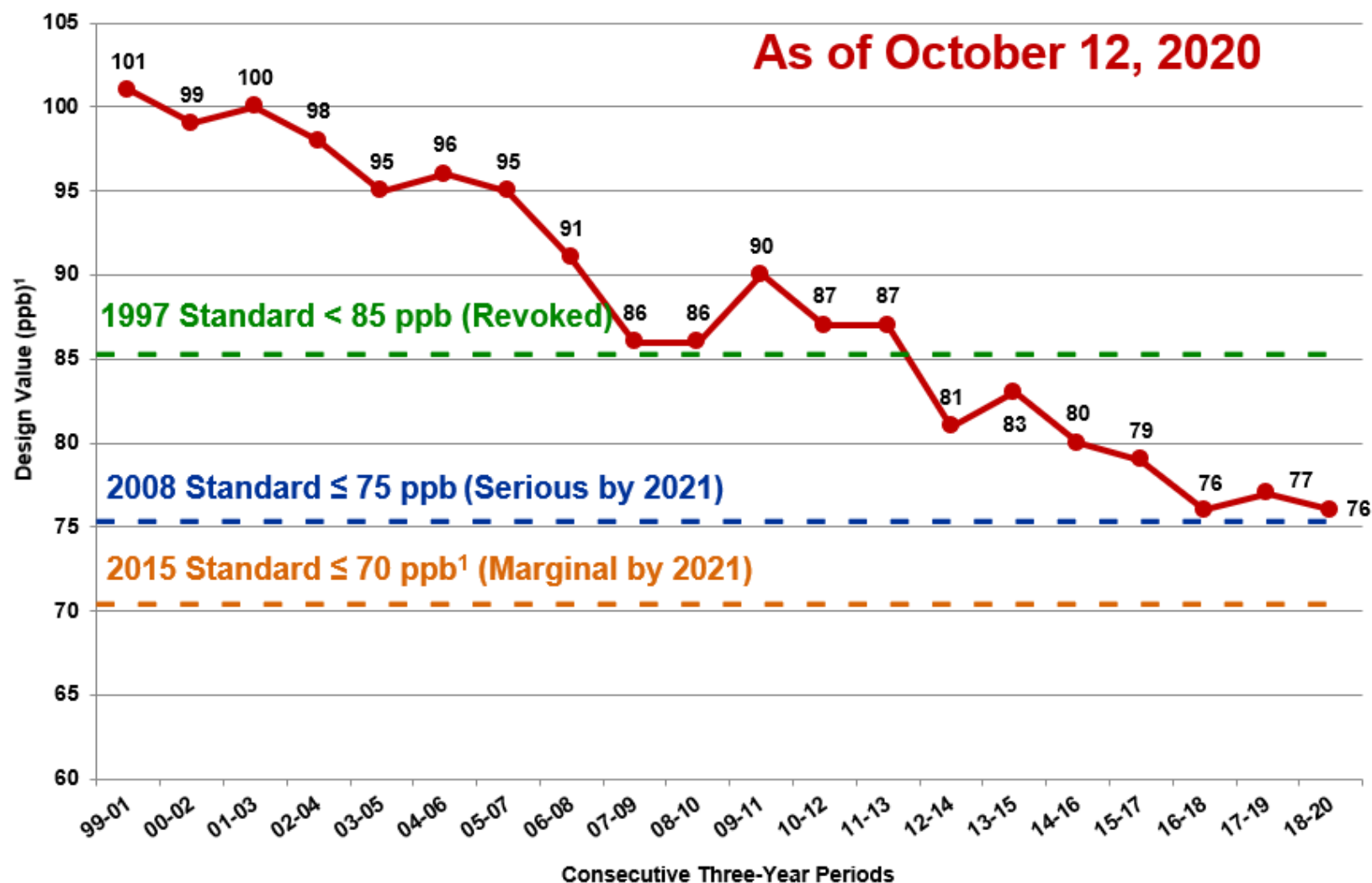
CALL IN NUMBER:
+1 346 248 7799
Meeting ID: 844 1191 1612



North Central Texas
Council of Governments

North Central Texas Air Quality

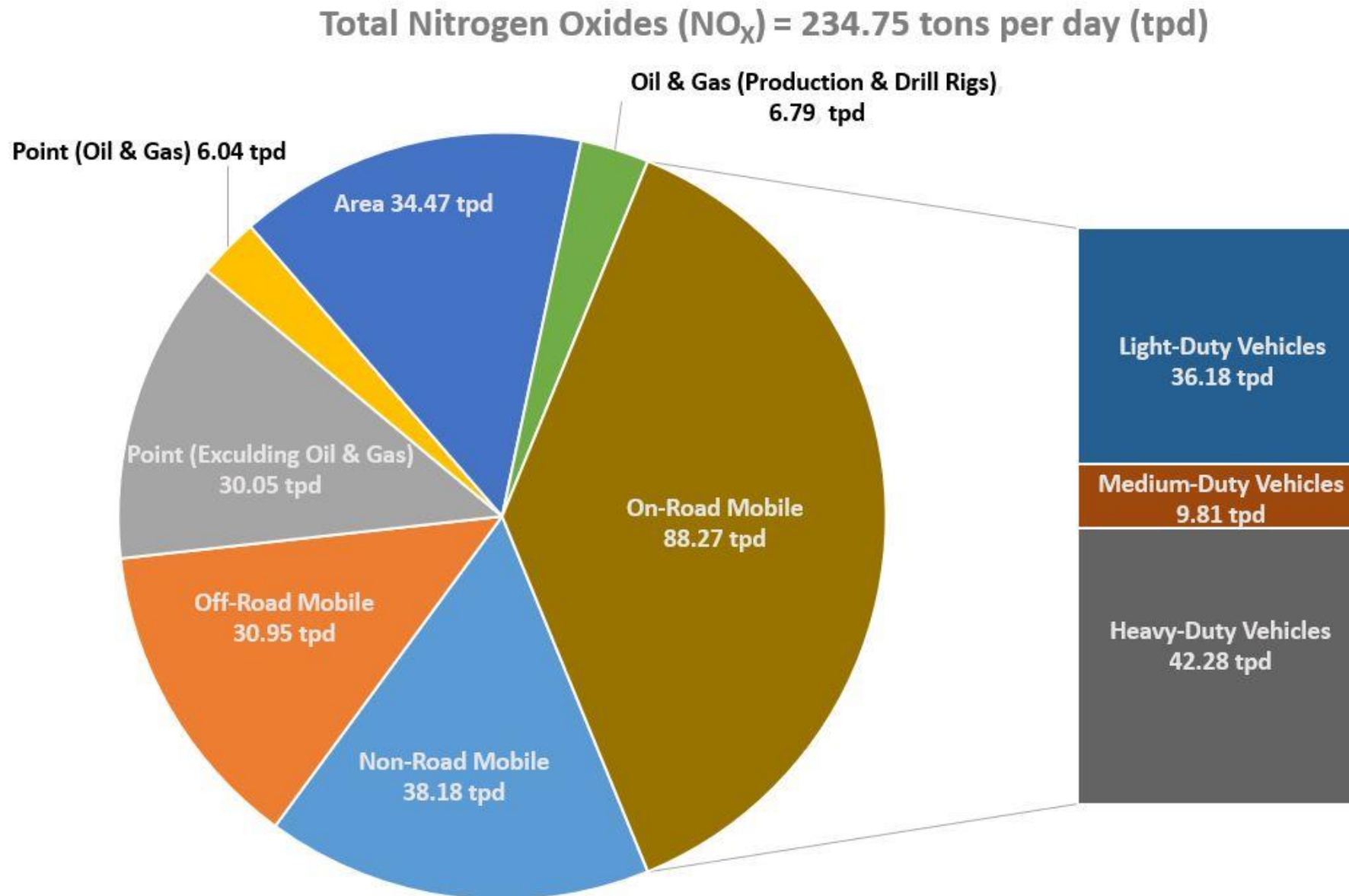
8-Hour Ozone NAAQS Historical Trends



Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the Design Value (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

Source: NCTCOG TR Dept

North Central Texas Air Quality



Call For Projects Overview

Source of Funds:

EPA National Clean Diesel Funding Assistance Program

Funding Available:

Approximately \$660,000

Structure:

Competitive Basis

Deadline Every Three Months, at 5 pm Central Time, Beginning January 8, 2021, and Continuing Until All Funds Awarded or Final Application Deadline Reached

Applicant Eligibility

Local Governments

Private Companies Who Contract With Local Governments

Own Heavy-Duty Diesel Vehicles or Equipment Operating in Ten-County Nonattainment Area

Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties

Must Have Adopted the Regional Transportation Council Clean Fleet Policy or Similar Prior to Application Submittal

Project Eligibility

On-Road Vehicle Replacement

Eligible Activities	Funding Threshold
<u>Replace On-Road Diesel Trucks*</u> 16,001 GVWR and Up; Engine Model Year 1996-2006; (Also Engine Model Year 2007-2009 if Replacing with Electric)	45% Cost if New is Electric 35% Cost if New is Powered by Engine Certified to CARB Optional Low-NO _x Standards (Both Natural Gas and Propane Engines Currently Available) 25% Cost for All Others

*All Old Vehicles Must be Scrapped; Engine Model Year 1995 Eligible On Case-By-Case Basis.

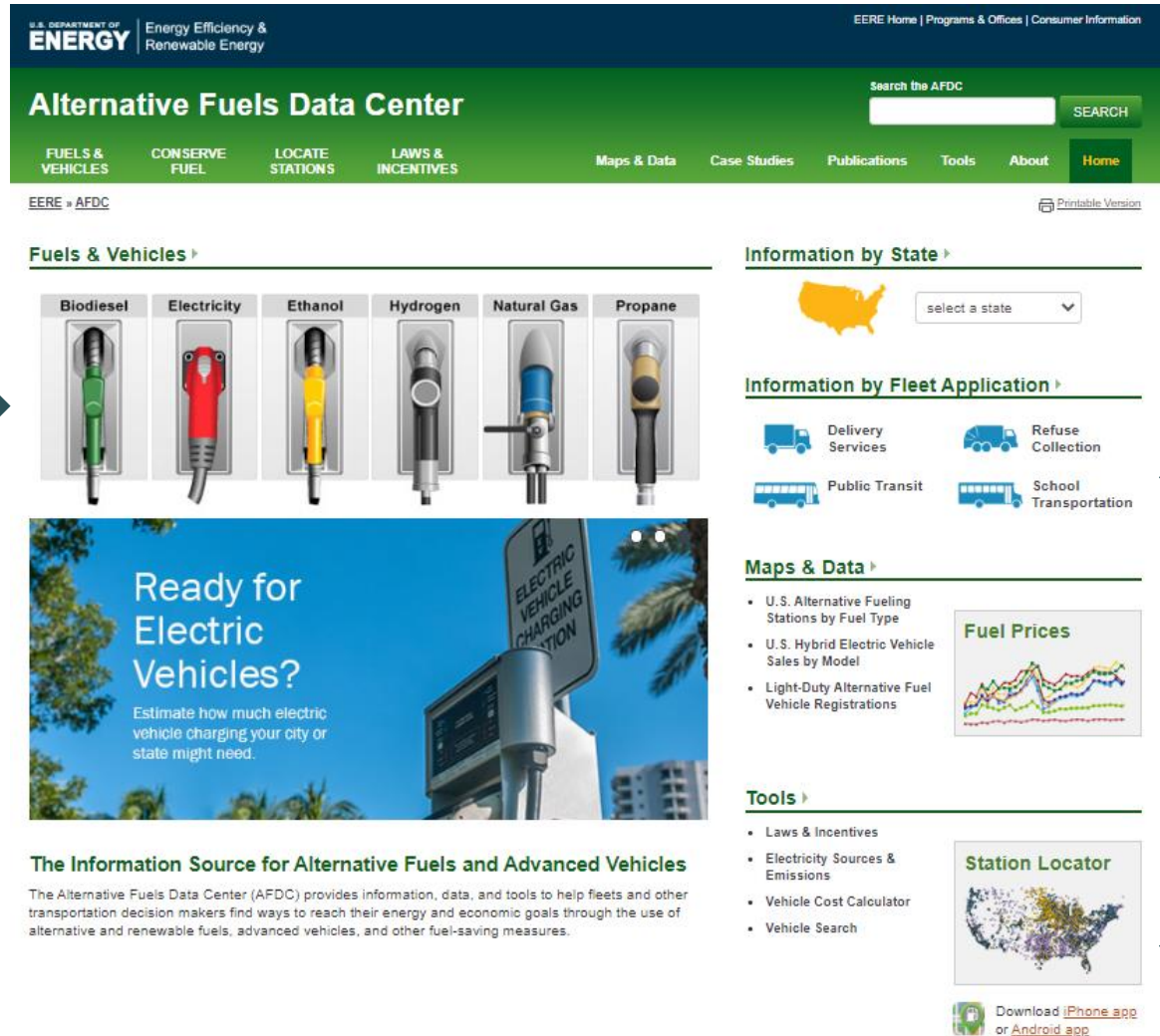
Tools & Resources

DFWCC - dfwcleancities.org



Tools & Resources – Alternative Fuel Information

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



**Learn About
a Fuel** 

Find a Vehicle

Find Refueling Stations

Tools & Resources – Find Alt Fuel Vehicles

[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 (EPAct).

Download a complete list:

[Light-Duty Vehicles](#) 

[All Vehicles](#) 

Vehicles by Type



[Sedan/Wagon](#)



[Pickup](#)



[SUV](#)



[Van](#)



[Step Van](#)



[Vocational/Cab
Chassis](#)



[Street Sweeper](#)



[Refuse](#)



[Tractor](#)



[Passenger
Van/Shuttle Bus](#)



[Transit Bus](#)



[School Bus](#)

Vehicles by Manufacturer

Light-Duty

All



SEARCH

Medium- and Heavy-Duty

All



SEARCH

Engines and Hybrid/Conversion Systems

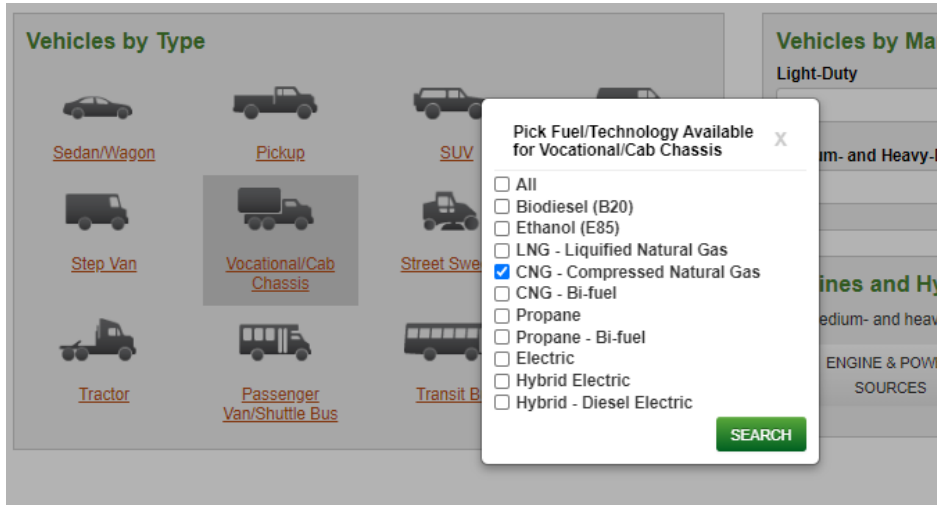
For medium- and heavy-duty vehicles:

ENGINE & POWER
SOURCES

CONVERSION & HYBRID
SYSTEMS

[ABOUT THE DATA](#)

Tools & Resources – Find Alt Fuel Vehicles



Pick a Vehicle Type and Fuel for List of Vehicles

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 (EPAct).

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:

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

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

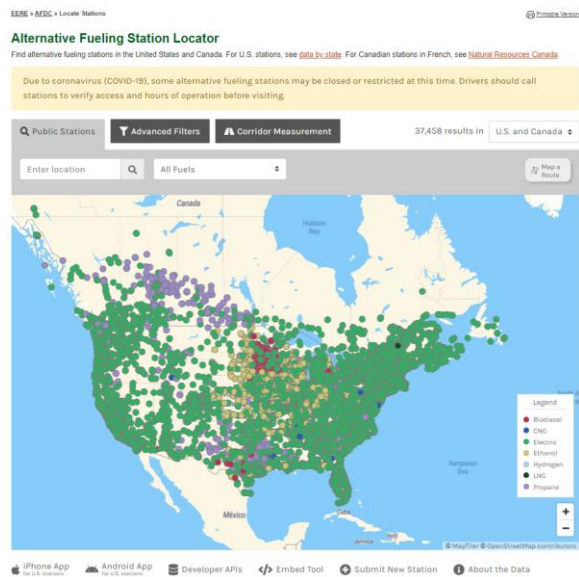
Class/Type

- ☐ 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

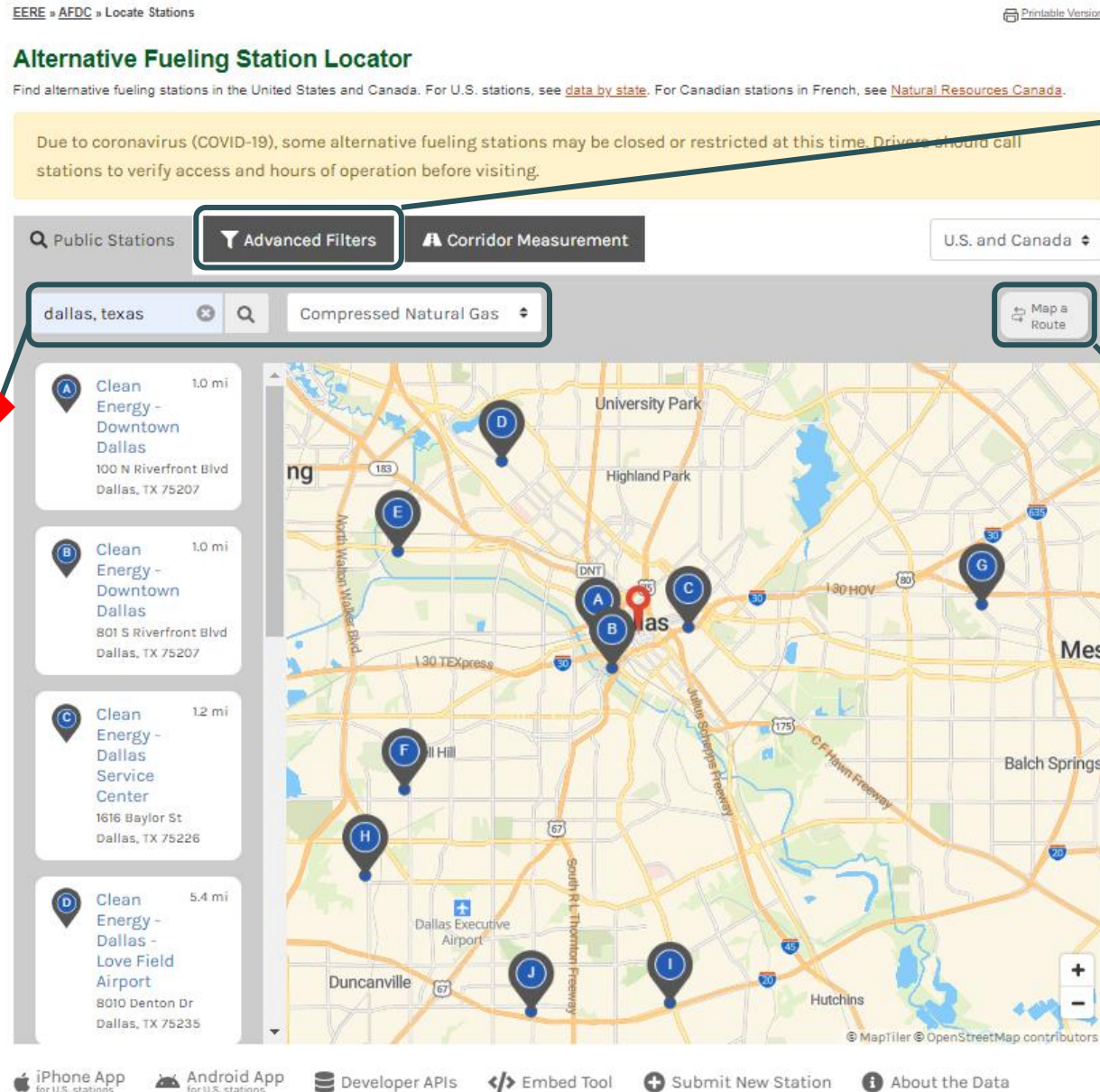
Manufacturer - Light-Duty +

Manufacturer - Med & Heavy-Duty +

Tools & Resources – Find Alt Fuel Stations



Basic Search by Location and Fuel



More Specific Location and Station Search

Map Stations Along a Route

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 **SEARCH**

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.



Tools & Resources – Estimate Emissions and Vehicle Costs

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

The screenshot shows the AFLEET website. At the top is the Argonne National Laboratory logo. Below it is a blue banner with the text 'Welcome To AFLEET'. To the right of the banner are three green boxes, each with an icon and a title. The first box has an Excel icon and is titled 'AFLEET Tool (xls)'. The second box has a globe icon and is titled 'AFLEET Online'. The third box has a truck icon and is titled 'HDVEC'. Each box contains a description and a list of features. A callout bubble points to the 'AFLEET Tool (xls)' box, and another callout bubble points to the 'AFLEET Online' box.

Argonne
NATIONAL LABORATORY

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.

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

Simple Payback

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

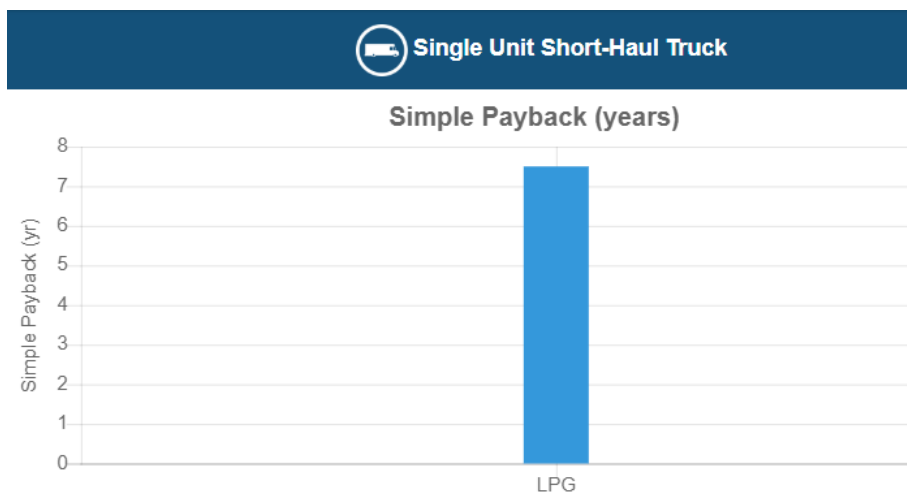
Total Cost of Ownership, Idle Reduction and More

- Excel Spreadsheet
- Customizable Inputs
- Uses 2019 Maintenance Costs

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

Project Eligibility

Non-Road Equipment Replacement

Operate 500 Hours or More Per Year

Current Engine Horsepower	Eligible Old Engine Model Year and Tier**	Engine Model Year 2018 or Newer		Maximum Funding Levels
		Eligible New Compression Ignition Tier	Eligible New Spark Ignition Tier	
0 - 50	2006 and Newer; Unregulated – Tier 2	Tier 4 final or All-Electric	Tier 2	45% Cost if New Is Electric
51 - 300	1996 and Newer; Tier 0 – Tier 2	Tier 3, 4 interim, Tier 4 final or All-Electric		35% Cost if New is Powered by Engine Certified to CARB optional Low-NO _x Standards
51 - 300	1996 and Newer; Tier 3	Tier 4 final or All-Electric		
301+	1986 and Newer; Tier 0 – Tier 2	Tier 3, 4 interim, Tier 4 final or All-Electric		25% Cost for All Others
301+	1986 and Newer; Tier 3	Tier 4 final or All-Electric		

*All Old Equipment Must be Scrapped; Other Model Years Eligible On Case-By-Case Basis.

Old to New Replacement Conditions

Must Perform the Same Function

Be of Same Type

Have Similar Gross Vehicle Weight Rating (GVWR) or Horsepower

Advance Approval Required if:

On-Road Vehicles – GVWR Not Within 10% of Intended Service Class

Non-Road Equipment – Horsepower Increase of More Than 25% Greater Than Old Engine

New Replacement Conditions

Must Remain Operational in the DFW Ozone Nonattainment Area

Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties

Must be an Early Replacement

Cannot be Normal Attrition, which is defined as a replacement that is scheduled to take place within 3 years of the project start date.

Required Documentation:

- Price Quote
- Signed Copy of Clean Fleet Policy
- Fleet Attrition Schedule or Policy
- Statement on Letterhead Explaining How Project Meets Early Replacement Requirement

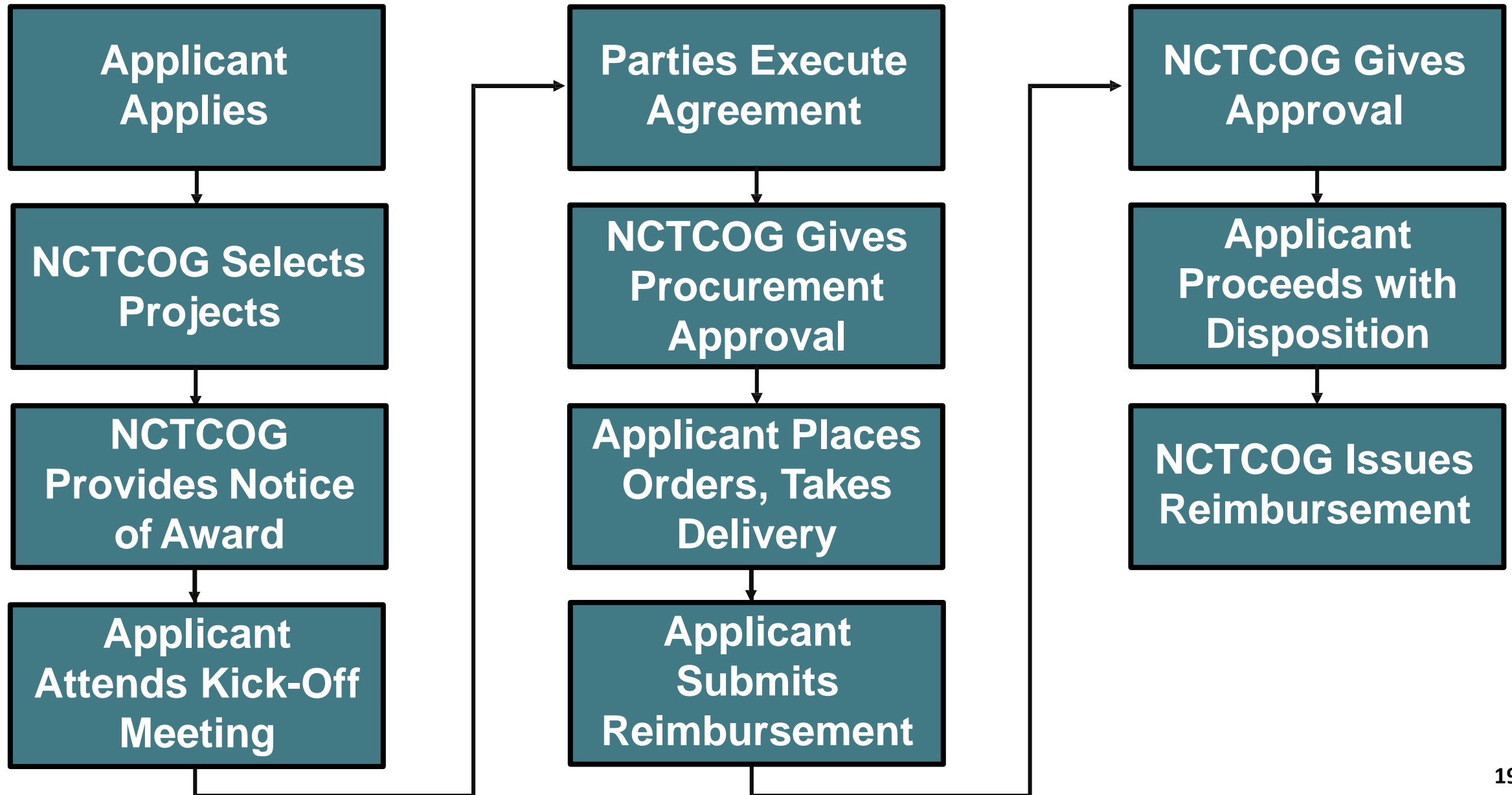
Selection Criteria

Selection Criteria:

NCTCOG will evaluate submitted applications based upon a competitive process using the following criteria:

- **Quantitative Analysis: Cost Effectiveness (75% of total project score)**
Cost per ton of NO_x reduce in the ten-county ozone nonattainment area per year.
- **Qualitative Analysis: Subrecipient Oversight Criteria (25% of scoring)**
The project's emissions benefits will be compared to NCTCOG's burden to administer the project.

Overall Process – High-Level View



Grant Administration

Procurement

NCTCOG Pre-Approval Required

Must Comply with 2 CFR 200.317-.326

Open and Fair Competition

Written Procurement Policies

Method of Procurement

- <\$250,000: Small Purchase Procedures (e.g. Quotes)
- >\$250,000: Sealed Bids or Competitive Proposals
- Sole Source
- Governmental Cooperative Purchasing Program (e.g. Buy Board)

Security Interest

Titles to Vehicles

NCTCOG Shall be the First Lien-Holder

Vehicles/Equipment Can Not be Used as Collateral; No Other Lien Without NCTCOG Approval

Site Visits

Vehicles/Equipment May be Inspected by NCTCOG or Funding Source (EPA)

Reimbursement

Reimbursement Will Not Be Made for Costs Incurred Prior to Execution of Agreement with NCTCOG

Submit Request for Reimbursement Packet

Forms Available Online at www.nctcog.org/aqfunding/forms

Obtain Approval of Reimbursement Packet

Proper Disposition Occurs

Reimbursement Issued

Reporting

Reporting

Monthly Progress Report Until Reimbursement

Ongoing Annual Reporting on Usage and Property Management

- Until Federal Interest is Exhausted; Typically When Fair Market Value Falls Below \$5,000

Geographic Area

Ten-County Nonattainment Area

Property Management – 2 CFR 200.313

Must Use in Project as Long as Needed

Replacement is Possible – Contact NCTCOG

If No Longer Needed (i.e. Reducing Fleet):

Obtain NCTCOG Approval to Dispose

Return if Needed by NCTCOG (Not Likely)

If Not Needed by NCTCOG and Fair Market Value (FMV)

- <\$5,000: Sell or Dispose With No Further Obligation
- >\$5,000: Return a Portion (Federal Share X FMV)

Notify NCTCOG of Any Changes Regarding Grant-Funded Vehicles/Equipment

Application Process

Application Process

1 Go to www.nctcog.org/AQfunding 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

2

Hot Topics

- Clean Fleets North Texas 2020 Call For Projects **NEW!**

How to Apply

Steps to Apply:

1. Fill out the **Intent to Submit Form** (optional)
2. Review the **Guidelines [PDF]**
3. **Submit an Online Risk Assessment** (Note: You cannot start and stop this survey; once started, the entire survey must be completed in one sitting. Staff recommends using **this copy of the survey [PDF]** to gather all necessary information prior to starting online entry via the live survey.)
4. Download and complete the **Application [XLS]**. See Guidelines pg. 8 for required attachments and instructions for submission.
5. Review an **Example Agreement [PDF]**

Application Checklist

Step 1: [Review Guidelines](#)

Step 2: Review FAQ

Step 3: [Submit an Online Intent to Submit Form \(Optional\)](#)

Step 4: Submit Completed Application (Including Part 1, Part 2, Part 3, and Part 4)

Include the following with the Application:

Fleet Owner's Attrition Schedule (See Guidelines, pg 5)

Letter Explaining Early Replacement (See Guidelines, pg 5)

Price Quote (See Guidelines, pg 6)

Signed Clean Fleet Policy if not already on file with NCTCOG (See Guidelines, pg 3)

Ensure the Following Items are Completed Prior to Submitting the Application:

[Submit an Online Risk Assessment](#)

[Adopt the Clean Fleet Policy](#)

Application Checklist

Step 4: Submit Completed Application

- **Project Contact - Manages Project**
- **Authorized Official - Signs Grant Agreement**
- **Engine Family Name (Emission Family Name/Number, EPA Family)**
 - 12 Characters – Numbers and Letters Located on Engine Nameplate



- **Signatures**
 - 29. Certified Mechanic
 - 30. and 32. Project Contact
 - 31. and 32. Procurement Official
 - 33. Authorized Official

Application Process

- **Submit a hard-copy Application and all needed attachments by 5 p.m. on the deadline date.** Applications received after that time will be considered with applications submitted for the next application deadline.
- **In addition to the hard copy submittal, NCTCOG requires an electronic submission of the Application (in Excel format) and all needed attachments to aggrants@nctcog.org.**
- **The first application deadline is Friday, January 8, 2021 with application deadlines continuing every three months until all funds are awarded or until the final application deadline is reached.**
- **Final deadline is Friday, ~~April 9, 2021~~ **October 8, 2021**.**

Application Process

Applicants are Strongly Encouraged to:

Email Application File in Excel Format to AQgrants@nctcog.org Prior to Submittal To Allow Staff to Review for Completeness and Provide Commentary

Submit Application in Advance of Deadline to Review for Completeness

Schedule

Milestone	Estimated Timeframe
STTC Action to Recommend Opening CFP	September 25, 2020
RTC Approval of Recommended Opening of CFP	October 8, 2020
CFP Opens	October 12, 2020
Kickoff Webinar	October 22, 2020 at 1 PM
Application Deadline (Rolling 90-Day Application Deadline Until Fully Awarded or Final Application Deadline Reached)	January 8, 2021
Staff Funding Recommendations Finalized	January-February 2021
STTC Action	March 2021
RTC Action	April 2021
Executive Board Authorization	April 2021
Final Application Deadline	October 8, 2021 (Updated)
Project Implementation Deadline	February 26, 2023 (Updated)

Questions



For More Information

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Program Manager

DFW Clean Cities Coordinator

817-695-9232

LClark@nctcog.org

Website

www.nctcog.org/aqfunding