Clean Fleets North Texas
2019 Call for Projects

July 9, 2019
Webinar

Nancy Luong
Air Quality Planner

FOR AUDIO PLEASE CALL INTO THE CONFERENCE LINE
1-888-909-7654
PIN: 504571#
Introduction
North Central Texas Air Quality

8-Hour Ozone NAAQS Historical Trends

As of July 8, 2019

1997 Standard < 85 ppb (Revoked)

2008 Standard ≤ 75 ppb (Moderate by 2017)

2015 Standard ≤ 70 ppb¹ (Marginal by 2020)

¹Attainment 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).
North Central Texas Air Quality

Total NOx = 296.77 tons per day (tpd)

On-Road Mobile 130.77

- Light-Duty Vehicles (Passenger Cars and Trucks) 50.8 tpd
- Medium-Duty Trucks 14.86 tpd
- Heavy-Duty Trucks 65.11 tpd

Point (Oil & Gas) 16.50
- Point (Excluding Oil & Gas) 38.30

Non-Road Mobile 45.54

Off-Road Mobile 25.24

Area 26.55

Oil & Gas (Production & Drill Rigs) 13.87
## NCTCOG Funds VS Volkswagen Funds*

<table>
<thead>
<tr>
<th>NCTCOG Eligibility</th>
<th>Volkswagen Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>All On-Road Vehicles Class 5 - 8</td>
<td>Class 4 - 7 Local Freight Trucks</td>
</tr>
<tr>
<td></td>
<td>Class 8 Local Freight Trucks and Port Drayage Trucks</td>
</tr>
<tr>
<td></td>
<td>Class 7 - 8 Refuse Vehicles</td>
</tr>
<tr>
<td></td>
<td>School Buses</td>
</tr>
<tr>
<td></td>
<td>Transit and Shuttle Buses</td>
</tr>
<tr>
<td>All Non-Road Equipment Operating ≥500 Hours/Year</td>
<td>Electric Forklifts and Port Cargo Handling Equipment</td>
</tr>
<tr>
<td></td>
<td>Electric Airport Ground Support Equipment</td>
</tr>
<tr>
<td></td>
<td>Ocean-Going Vessel Shore Power</td>
</tr>
</tbody>
</table>

*Both Programs Require All Old Vehicles/Equipment To Be Diesel-Powered.
Call For Projects Overview

Source of Funds:
- EPA National Clean Diesel Funding Assistance Program
- TCEQ SEP Funds for School Bus Replacements*

Funding Available:
- Approximately $2 Million

Structure:
- Competitive Basis
- Deadline September 6, 2019 at 5 PM

*New funds received from the Texas Commission on Environmental Quality (TCEQ) Supplemental Environmental Project (SEP) will be added to this initiative as they are received.
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
On-Road Vehicle Replacement
Gross Vehicle Weight Rating 16,001 and Up

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

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

California Air Resources Board (CARB); Gross Vehicle Weight Rating (GVWR)
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 6 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

https://afleet-web.es.anl.gov
Alternative Fuels Data Center Vehicle Search

Tools ➔ Vehicle Search

https://afdc.energy.gov/
## Project Eligibility

### Non-Road Equipment Replacement

Operate 500 Hours or More Per Year

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

*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.

Suggested Documentation:

• The Vehicle or Fleet Owner’s Budget
• Operating Plan
• Standard Procedures
• Retirement Schedule

Note: If documentation is present for retirement but the organization does not follow it, add an explanation why the vehicle/equipment are exceptions
Eligibility Screens

Adopt a Clean Fleet Policy or Similar
- Visit [www.nctcog.org/fleetpolicy](http://www.nctcog.org/fleetpolicy)
- Submit Policy to [AQgrants@nctcog.org](mailto:AQgrants@nctcog.org)

Minimum Allowable Subaward: $100,000

<table>
<thead>
<tr>
<th>Project Description</th>
<th>New Vehicle Cost</th>
<th>Funding Threshold</th>
<th>Grant Amount</th>
<th>Minimum Award Met?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace 1 Large Truck with New Diesel Truck</td>
<td>$400,000</td>
<td>25%</td>
<td>$100,000</td>
<td>Yes</td>
</tr>
<tr>
<td>Replace 1 School Bus with New Propane School Bus</td>
<td>$145,000</td>
<td>35%</td>
<td>$50,750</td>
<td>No</td>
</tr>
<tr>
<td>Replace 2 School Buses with Propane School Buses and 1 Box Truck with New Diesel Box Truck</td>
<td>School Buses: $100,000 each</td>
<td>School Buses: 35%</td>
<td>School Buses: $70,000</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Box Truck: $160,000</td>
<td>Box Truck: 25%</td>
<td>Box Truck: $40,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Award: $110,000</td>
<td></td>
</tr>
</tbody>
</table>
Selection Criteria

Scoring Criteria:
Cost Per Ton NO$_X$ Emissions Reduced, 75% of scoring
Purpose: Maximize Emissions Reductions

Subrecipient Risk & Oversight Criteria, 25% of scoring
Purpose: Balance Project Benefits with Administrative Burden
- Financial/Organizational Capacity
- History of Performance for Federal Funds
- Experience in Carrying Out A Federally Compliant Procurements, and the Proposed Procurement Approach for This Project
- Results of Previous Audits
- Past Performance On NCTCOG-Related Grants
Overall Process – High-Level View

Applicant Applies

NCTCOG Selects Projects

NCTCOG Provides Notice of Award

Applicant Attends Kick-Off Meeting

Parties Execute Agreement

NCTCOG Gives Procurement Approval

Applicant Places Orders, Takes Delivery

Applicant Submits Reimbursement

NCTCOG Gives Approval

Applicant Proceeds with Disposition

NCTCOG Issues Reimbursement
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 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/agfunding/forms
   Obtain Approval of Reimbursement Packet

Proper Disposition Occurs

Reimbursement Issued
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
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.

How to Apply

Steps to Apply:

1. Fill out the Intent to Submit Form (optional)
2. Review Key Documents: Guidelines [PDF] and Frequently Asked Questions [coming soon]
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. Submit an Application by Mail or In Person [XLS] by 5 p.m. on Friday, September 6, 2019
5. Review an Example Agreement [PDF]

Hot Topics

- Clean Fleets North Texas 2019 Call For Projects NEW
Application Checklist

❑ Step 1: Review Guidelines

❑ Step 2: Submit an Online Intent to Submit Form (Optional)

❑ Step 3: Submit an Online Risk Assessment
Step 4: Submit Completed Application

• Project Contact - Manages Project
• Authorized Official - Signs Grant Agreement
• Engine Family Name
  • 12 Characters – Numbers and Letters Located on Engine Nameplate
    • https://efc.umd.edu/assets/nameplatephotos.pdf
• Signatures
  • 30. Authorized Official, if applicable
  • 32. Certification from Mechanic
  • 33. Procurement Official
  • 34. Project Official
  • 35. Authorized Official
Application Process

Applications Must be in a Sealed Envelope With a Return Address on the Outside

Mail or Deliver to: (Faxes Not Accepted)
North Central Texas Council of Governments
Transportation Department
Clean Fleets North Texas 2019 Call for Projects
Attention: AQ Grants
616 Six Flags Drive
Arlington, TX 76011

Must be Received “in-hand” by 5 pm Central Time on September 6, 2019
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
<table>
<thead>
<tr>
<th>Milestone</th>
<th>Estimated Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>STTC Approval to Open CFP</td>
<td>May 24, 2019</td>
</tr>
<tr>
<td>RTC Approval to Open CFP</td>
<td>June 13, 2019</td>
</tr>
<tr>
<td>CFP Opens</td>
<td>June 14, 2019</td>
</tr>
<tr>
<td>Kickoff Webinar</td>
<td>July 9, 2019, at 2 PM</td>
</tr>
<tr>
<td>Application Deadline</td>
<td>Friday, September 6, 2019 at 5 pm</td>
</tr>
<tr>
<td>Staff Funding Recommendations Finalized</td>
<td>Early November 2019</td>
</tr>
<tr>
<td>STTC Action</td>
<td>November/December 2019</td>
</tr>
<tr>
<td>RTC Action</td>
<td>December 2019</td>
</tr>
<tr>
<td>Executive Board Authorization</td>
<td>December 2019</td>
</tr>
<tr>
<td>Project Implementation Deadline</td>
<td>March 31, 2021</td>
</tr>
</tbody>
</table>
Nancy Luong
Air Quality Planner
817-704-5697
NLuong@nctcog.org

Lori Clark
Program Manager
DFW Clean Cities Coordinator
817-695-9232
LClark@nctcog.org

Website
www.nctcog.org/aqfunding