North Central Texas Air Quality Update
Based on ≤70 ppb (As of May 9, 2018)

Exceedance Levels
- Orange (71-75 ppb)
- Orange (76-85 ppb)
- Red (86-105 ppb)
- Purple (106+ ppb)

Ozone Season (Year)

Exceedance Days
As of May 9, 2018

- **1997 Standard < 85 ppb (Revoked)**
- **2008 Standard ≤ 75 ppb¹ (by 2017)**
- **2015 Standard ≤ 70 ppb (TBD; Marginal by 2020)**
2015 8-hour Ozone NAAQS Designations

Legend
- Metropolitan Planning Area
- Counties Designated Nonattainment Under 2008 8-Hour Ozone NAAQS
- Counties Designated Nonattainment Under 2015 8-Hour Ozone NAAQS
- Ozone Monitoring Sites

North Central Texas Council of Governments

May 2018
What is Clean Cities?

Created by the Department of Energy (DOE) to Address the Requirements of the Energy Policy Act (EPAct) of 1992:

- To advance the nation’s economic, environmental, and energy security by supporting local practices that contribute to the reduction of petroleum consumption in the transportation sector

- Partners with public and private fleets

- Alternative fuel neutral
Petroleum Reduction Strategy

- **Reduce**
  - Fuel Economy

- **Replace**
  - Biodiesel
  - Electricity
  - Hydrogen
  - Natural Gas
  - Propane
  - Ethanol

- **Eliminate**
  - Idle Reduction
DFWCC Annual Report Results: 2017

22,931,108 Gasoline gallon equivalents reduced
782,360 Pounds of NOx reduced
181 Stakeholders

See the DFWCC annual report for more details: https://www.dfwcleancities.org/annualreport

Image source: Getty images
DFWC Annual Report Results: 2017

Gallons of Gasoline Equivalent Reduced by Strategy

- VMT Reduction
- Idle Reduction
- Off-Road Vehicles
- Fuel Economy Improvements
- Electric & Plug-In Vehicles
- Hybrid Vehicles
- Alternative Fuel Vehicles

VMT = Vehicle Miles of Travel
Clean Cities Subtask Updates
Volkswagen Settlement

Total Settlement To Date: $14.7 Billion

Zero Emission Vehicle (ZEV) Investment - Managed By Electrify America

Environmental Mitigation Trust (EMT) - Distributed To States

Settlement Breakdown ($ in Billions)

- Vehicle Buyback and Modification: $10.0
- ZEV Investment: $2.0
- Environmental Mitigation Trust: $2.7

Texas’ Share: $209 Million
Alternative Fuel Corridors

FHWA is establishing a national network of alternative fueling and charging infrastructure along national highway system corridors.

Analyzed Fuel Types:
Electric, Propane, CNG, LNG, Hydrogen

Over Round 1 and Round 2 of Designations:

58 Nominations
Segments or entire lengths of 84 Interstate corridors
44 states (plus the District of Columbia) designated as corridor-ready or corridor-pending for one or more alternative fuel types

For a complete map of all designated alternative fuel corridors across the country:
https://www.fhwa.dot.gov/environment/alternative_fuel_corridors/maps/
Alternative Fuel Corridors
Funding Opportunities
The Environmental Protection Agency anticipates awarding $40 million for diesel emissions reduction projects. Projects include: replacements, engine repower, upgrade, or conversion, idle reduction and more.

Eligible Entities: Regional, state, and local agencies, including school districts.

DEADLINE FOR PROPOSALS: June 12, 2018.

To Learn More: https://www.epa.gov/cleandiesel/clean-diesel-national-grants
Light-Duty Motor Vehicle Purchase or Lease Incentive Program (LDPLIP)

Rebates For: purchase of light-duty motor vehicles powered by compressed natural gas (CNG), liquefied petroleum gas (LPG), or electricity

Funding: $5000 for CNG or LPG, $2500 for electric

Anticipated to Open Summer 2018

Manufacturer Information Request Forms from light-duty, intermediate or final state manufacturers, and manufacturers of CNG or LPG systems now being accepted by TCEQ

The downloadable form and instructions for LDPLIP can be on the Texas Emissions Reduction Plan (TERP) site found here: https://www.tceq.texas.gov/airquality/terp/ld.html
Additional TERP Opportunities

**Texas Natural Gas Vehicle Grant Program (TNGVGP)**
Grants to repower or replace vehicles with natural gas
Now Open!

**Texas Clean Fleet Program (TCFP)**
Grants to replace heavy-duty and light-duty on-road diesel vehicles with alternative fuel and hybrid vehicles
Anticipated to Open Soon!

**Emissions Reduction Incentive Grant (ERIG)**
Grants to upgrade or replace vehicles or equipment that result in a reduction of emission of NOx by at least 25%
Anticipated to Open Spring 2018

To Learn More About TERP Programs:
https://www.tceq.texas.gov/airquality/terp
Clean Fleets North Texas 2018 Call For Projects

**Eligible Entities:**
- Local Governments
- Private Companies Who Contract with Local Governments
- Must Adopt RTC Clean Fleet Policy or Similar

<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>16,000 GVWR and Up; Model Year 1995-2006;</td>
<td>35% Cost if New is Powered by Engine Certified to CARB</td>
</tr>
<tr>
<td>(Also Model Year 2007-2009 if Replacing with Electric)</td>
<td>Optional Low-NO\textsubscript{x} Standards (Both Natural Gas and Propane Engines Currently Available)</td>
</tr>
<tr>
<td>Replace Non-Road Diesel Equipment*</td>
<td>25% Cost for All Others</td>
</tr>
<tr>
<td>Must Operate &gt;500 Hours/Year; Eligible Model Years Vary</td>
<td></td>
</tr>
</tbody>
</table>

*All Old Vehicles/Equipment Must be Scrapped*
CARB = California Air Resources Board                GVWR = Gross Vehicle Weight Rating
Upcoming Events
### Upcoming Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 23, 2018</td>
<td>Vehicle/Equipment Demo at Public Works Round Up</td>
<td>11 am - 12:30 pm</td>
<td>Grapevine Convention Center</td>
</tr>
<tr>
<td>May 31, 2018</td>
<td>Best Practices for EV Charging Infrastructure Webinar hosted by Fleets for the Future</td>
<td>Register Now</td>
<td></td>
</tr>
<tr>
<td>June 14, 2018</td>
<td>Fleet Funding Workshop Series: School Bus Webinar hosted by Alamo Area Clean Cities</td>
<td>Registration Coming Soon</td>
<td></td>
</tr>
<tr>
<td>Date: TBD</td>
<td>DFW Clean Cities Bi-Annual Meeting and Fleet Recognition Awards</td>
<td>Registration Coming Soon</td>
<td></td>
</tr>
<tr>
<td>July 31, 2018</td>
<td>NAFTC - Texas Propane Autogas Technician Training</td>
<td>Register Now</td>
<td></td>
</tr>
</tbody>
</table>


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**Mark Your Calendars!**

**Nat’l Drive Electric Week**

North Texas 2018

**September 8, 2018**  Grapevine Mills

#texasEV  #beatCalifornia

**Drive Electric DFW.org**
For Further Information

Bailey Muller
Air Quality Planner
bmuller@nctcog.org

Lori Clark
Program Manager
DFW Clean Cities Coordinator
lclark@nctcog.org

www.dfwcleancities.org
Thank you to our DFW Clean Cities Sponsors

- Chargepoint
- Nissan
- ORANGE EV
- Tesla Owners North Texas
- Quantum Fuel Systems

For sponsorship levels and benefits, please visit:

https://www.dfwcleancities.org/sponsors

Or contact cleancities@nctcog.org
Grant Funding and Cost Savings Event

City of Southlake
SORRY
Background Information

City of Southlake
Fleet of 260
Alternate Fuels Used
  • E85
  • B20 BioDiesel
• Facilities and Equipment
  • End of Service Life
• DOE and NCTCOG Grant
• Approved for Grant - $63,000
Multiple Step Process for Grant Approval

- Grant Document
- Bidding Process
- Vendor Requirements
- Permitting
- City Council Approval
Usage

- E85
- B20 BioDiesel
Challenges

- Driver Acceptance
- Repair Issues
- Availability
- Fuel Issues
Achievements
Timothy Slifka, CPPO, CPPB
Purchasing Manager, City of Southlake
 tslifka@ci.southlake.tx.us
 817-748-8312
Questions?
Fueling Best Practices:
Cutting Costs, and Optimizing Logistics
Who is Protec Fuel?

Protec is the #1 distributor of higher-blend ethanol fuels to government fleets, including:

- City of Chesapeake, VA – Ranked #1 “The 100 Best Fleets” 2017
- CPS Energy (City of San Antonio)
- United States Navy, NASA, Department of Homeland Security

Why? We deliver custom designed, turnkey solutions that save you money, diversify and secure your fuel supply, and make a huge impact in reducing emissions.
Savings per Gallon

- E85 is currently $0.50 **less per gallon** than regular (87 octane/E10)
- Multi-month fixed pricing available
  - typically **locking in discount significantly below OPIS gasoline spot price**
- Typical fuel cost savings 12%+ when adjusted for burn rates.
Easy, No Fleet Changes Necessary

- Typically, 40-60% of a fleet’s police and other light-duty vehicles are Flex-Fuel capable
- FFVs were engineered to use E85, and you already own them
- Nothing to learn – as easy as gasoline – pump and go
Flex Fuel for Flex Fuel Vehicles

Sustainability and Alternative Fuels
Go that extra green mile with ethanol, biodiesel, natural gas, liquefied petroleum gas or electricity. With energy independence ranking as a top priority, we manufacture a wide range of Ford vehicles capable of running on fuels from American sources.

Learn more about Ford’s commitment to Sustainability

Electrification Choices
Ford’s electrification strategy involves three types of electrified vehicles – hybrid, plug-in hybrid and all electric – to provide customers with fuel economy options and help reduce CO2 emissions.

Learn more about Ford Hybrid & Electric Vehicles

E85 Ethanol Flexible-Fuel Vehicles and B20 Biofuel Vehicles
Every Ford flexible-fuel vehicle (FFV) is engineered to run on E85 (85% ethanol and 15% gasoline), unleaded gasoline or any blend of the two. Several Ford trucks can operate on any blend of up to 20% biodiesel and 80% petroleum diesel (a mix known as B20) Both biodiesel and ethanol are cleaner burning and more renewable than conventional fuels.

Learn more about vehicle details in the showroom

Compressed Natural Gas (CNG) and Liquefied Petroleum Gas (LPG) Vehicles
Another option to cut fuel costs and reduce emissions further is with our...
Ethanol – Reduces GHG 43%

- Reduce greenhouse gas emissions an incredible 20% locally and 43% net overall
- Farm-to-tailpipe net reduction of 43% GHG emissions comparing ethanol vs gasoline
- U.S.D.A. Climate Change Program Office study "A Life-Cycle Analysis of the Greenhouse Gas Emissions of Corn-Based Ethanol." (1/12/17)
Secure Emergency Fuel Supplies

- Secure and diversify your fleet’s fuel supply
- Protect against weather and emergency interruptions to gasoline delivery
- Ethanol transported by rail keeps emergency services fueled and on the road
Protec Grants = Subsidized Equipment

- Select Fleets qualify for new equipment.
- All equipment is under full warranty and service protection.
- 5 year agreement to offer E85.
- We can handle everything, including installation.
- Turnkey solutions – tailored to your needs.
- Free fleet emissions and fuel cost analysis.