CRITERIA POLLUTANTS

Carbon Monoxide
Lead
Nitrogen Dioxide
Particular Matter
Sulfur Dioxide
Ozone

How are we doing?
What is the focus?
What is being done?
EIGHT-HOUR OZONE TRENDS

Eight-Hour Ozone Exceedance Days Based on ≤70 ppb

Exceedance Level indicates daily maximum eight-hour average ozone concentration. Exceedance Levels are based on Air Quality Index (AQI) thresholds established by the EPA for the for the revised ozone standard of 70 ppb.

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

Exceedance Levels

<table>
<thead>
<tr>
<th>Year</th>
<th>Orange (71-75 ppb)</th>
<th>Orange (76-85 ppb)</th>
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*Not a full year of data.
Source: TCEQ, [http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl](http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl)
p = parts per billion

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p = parts per billion
As of July 12, 2017

1997 Standard < 85 ppb (Revoked)

2008 Standard ≤ 75 ppb (by 2017)

2015 Revised Standard ≤ 70 ppb (TBD; Marginal by 2022)

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).

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DFW EMISSIONS SOURCES

Oxides of Nitrogen (NO$_x$)

- Total NO$_x$ = 296.73 tons per day (tpd)
- Source: TCEQ, 2017 Dallas-Fort Worth 8-hour Ozone Attainment Demonstration State Implementation Plan

- On-Road (Cars & Trucks) 130.77 tpd (44%)
- Non-Road (Construction, Agriculture, etc.) 45.54 tpd (15%)
- Off-Road (Locomotives, Aircraft, etc.) 25.20 tpd (8%)
- Point, Excluding Oil & Gas (Power Plants, Cement Kilns, etc.) 38.30 tpd (13%)
- Point - Oil & Gas 16.50 tpd (6%)
- Area (Dry Cleaners, Bakeries, etc.) 26.55 tpd (9%)
- Oil & Gas (Production & Drill Rigs) 13.87 tpd (5%)

Total NO$_x$ = 296.73 tons per day (tpd)
*2017 design value data current as of 07/12/2017
HEAVY-DUTY VEHICLE AGE DISTRIBUTION

DFW Ten-County Nonattainment Region (Greater than 26,000 Gross Vehicle Weight Rating)

- 2010 & Newer: 38%
- 2007 - 2009: 19%
- 2006 & Older: 43%

1Based on 2014 Texas Department of Motor Vehicles registration data
SEVEN AIR QUALITY EMPHASIS AREAS

Mobile Sources

- Low Speeds
- Idling
- Vehicle Miles Traveled (VMT)
- Energy and Fuel Use
- Cold Starts
- Hard Accelerations
- High Emitting Vehicles and Equipment
SAMPLE OF AIR QUALITY INITIATIVES
DOLLARS AWARDED FROM 2006-2016; TOTAL = $159,429,148
Goal/Description
Streamline of Regulatory Processes
Provide Resources for Cities
Increase Awareness

NCTCOG Resources
Template Permitting Documents
Ordinance Guidance
Website Clearinghouse

How To Get Involved
Adopt Suggested Best Practices
Attend Upcoming Webinars & Trainings

Annual and Total DFW Area Solar Installations (2008 to 2015)

Source: NTREG, 2016

www.GoSolarNorthTexas.org
Goal/Description
Reduce Solar Soft Costs
Adopt Solar-Friendly Processes and Policies
Designate Communities

NCTCOG Resources
Host Trainings
Share Regional Best Practices
Conduct Technical Review of Community Documents and Policies

How To Get Involved
Contact NCTCOG Air Quality Staff
Attend Upcoming Trainings

www.GoSolarNorthTexas.org/SolSmart
Goal/Description
Promote Adoption & Use of Electric Vehicles (EVs)
Encourage On-site Charging at Workplaces

NCTCOG Resources
EV Fact Sheets & Regional Data
Guide to Claiming EV Incentives
Presentations at Community Meetings

How To Get Involved
Attend EVNT & DFW Clean Cities Meetings
Sign Up to Receive Email Announcements
Attend National Drive Electric Week Event
Install Workplace Charging

www.dfwcleancities.org/evnt
September 9 – Kickoff Event at Grapevine Mills Mall
Over 100 EV Owners Available
Unbiased, No-Pressure Opportunity to Ask Questions

September 11-16
Webinar Series – Different EV Topic Each Day

www.DriveElectricDFW.org
Program Goals

Offers Financial Assistance to Low-Moderate Income Vehicle Owners Whose Vehicles Fail Emissions Inspection Test

Helps Vehicle Owners Comply with Vehicle Emissions Standards to Reduce Ozone-Forming Pollutants Created by On-Road Motor Vehicles

Targets the Highest Polluting Vehicles and Provides an Incentive for Citizens to Contribute to the Regional Air Quality Solution

NCTCOG Resources

Program Applications, Informational Brochure, Banners

How To Get Involved

Place Applications at Businesses
Promote Program Assistance

www.airchecktexas.org
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
- ZEV Investment
- Environmental Mitigation Trust

Texas’ Share: $209 Million

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Texas’ Share: $209 Million
### ZEV INVESTMENT

#### $1.2 Billion Commitment (All States Except CA)

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- **Charging Infrastructure Installation** – Approx. $250 Million
  - Long Distance Highway Network
    - Interstate Highway (IH) 30, IH 20, and IH 35 Named
  - Community Charging
    - Houston One of 11 Initial Metropolitan Areas

- **Public Education Initiatives** – Approx. $25 Million
- **ZEV Access Initiatives** – Under Development

- **$25 Million Reserved for Electrify America Administrative Costs**
## Eligible Mitigation Actions 1-9

1. Replace/Repower Freight and Port Drayage Trucks (Class 8)  
   *Includes Dump Trucks, Waste Haulers, Concrete Mixers*

2. Replace/Repower School, Shuttle, & Transit Buses (Class 4-8)

3. Replace/Repower Freight Switchers

4. Replace/Repower Ferries/Tugs

5. Install Ocean Going Vessels Shorepower

6. Replace/Repower Freight Trucks (Class 4-7)  
   *Includes Dump Trucks, Waste Haulers, Concrete Mixers*

7. Replace/Repower Airport Ground Support Equipment

8. Replace/Repower Forklifts and Port Cargo Handling Equipment

9. Deploy Light-Duty ZEV Supply Equipment

## Eligible Mitigation Action 10

10. Diesel Emission Reduction Act (DERA) Option for State Clean Diesel Program  
    *Texas’ State Clean Diesel Program Currently for School Buses*
Work Toward Identifying Quantities and Types of Vehicles to be Replaced by Local Fleets

www.nctcog.org/airquality

Visit the NCTCOG Table to Pick Up Details on:

- AirCheckTexas Drive a Clean Machine
- National Drive Electric Week
- Go Solar Texas
- Additional Air Quality and Clean Vehicle Programs
- Transportation Planning Information
- Environmental Programs

Chris Klaus, Senior Program Manager
817-695-9286
cklaus@nctcog.org

www.nctcog.org/airquality