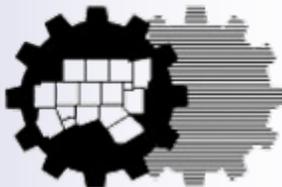


# **IMPLEMENTING FEDERAL AND STATE REGULATIONS FROM THE LOCAL PERSPECTIVE**

***Texas Air Quality Review***  
**Legislative Air Quality Caucus**  
**December 1, 2008**



**Chris Klaus, Senior Program Manager**  
**Air Quality Planning and Operations**  
**Transportation Department**  
**North Central Texas Council of Governments**

# **NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS**

## **Voluntary Association Of, By and For Local Governments**

**16-County Region Centered Around Dallas-Fort Worth (DFW)**

**230 Member Governments (Cities, Counties, Special Districts)**

**Goals Include Planning for Common Needs, Cooperating for Mutual Benefit, and Coordinating for Sound Regional Development**

## **Metropolitan Planning Organization Designation**

**Nine-County (Some Partial) Metropolitan Planning Area**

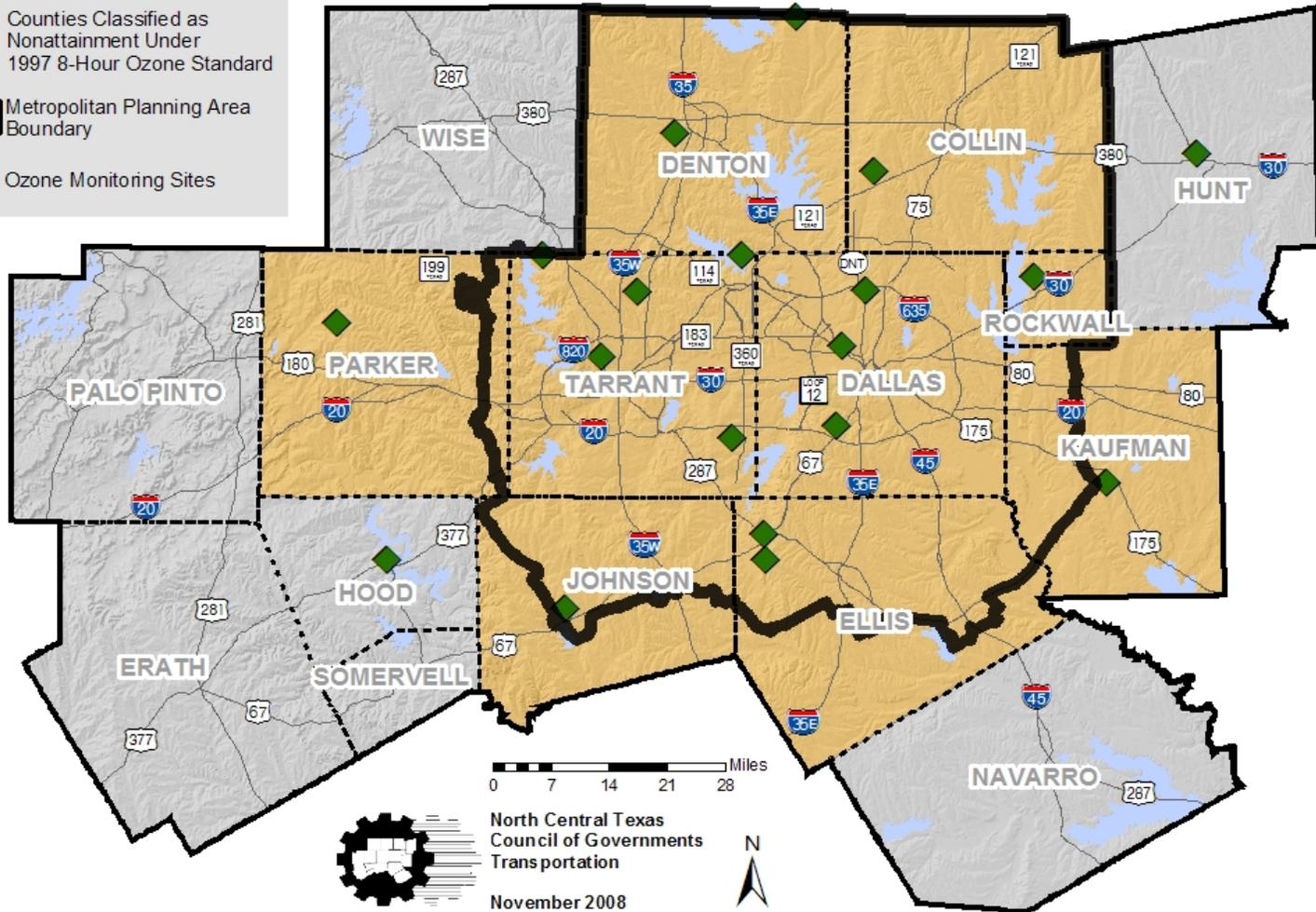
**Nine-County Ozone Nonattainment Area**

**Responsibilities Include Reducing Congestion, Enhancing Mobility, and Improving Air Quality**

# NCTCOG BOUNDARIES

## Legend

- Counties Classified as Nonattainment Under 1997 8-Hour Ozone Standard
- Metropolitan Planning Area Boundary
- Ozone Monitoring Sites



# FEDERAL CLEAN AIR ACT

## National Ambient Air Quality Standards

**Federal Standards Set by the U.S. Environmental Protection Agency (EPA) for Air Pollutants to Protect Human Health and the Environment**

## State Implementation Plan

**Plan Outlining How the State Will Reduce and Maintain Air Pollution Emissions in Order to Comply with Federal Standards**

## Air Quality Conformity

**Analysis to Ensure Transportation Activities are Consistent With Air Quality Goals**

# **NATIONAL AMBIENT AIR QUALITY STANDARDS**

## **Track and Respond to Federal Air Quality Actions**

**Revised Criteria Pollutant Standards**

**Nonattainment Designations**

**Associated Air Quality Legislation and Regulation**

## **Monitor and Assess Regional Ozone Activity**

**Ozone History and Trend Reports**

**Real-Time Regional Ozone Monitor Feed**

**Public Information, Resources, and Tools**

**Technical Studies (i.e. Weather Impacts)**

# STATE IMPLEMENTATION PLAN

## Emissions Inventories and Analyses

### Quantify Regional Pollutant Emissions

**On-Road, Aviation, Locomotive Inventories**  
**Motor Vehicle Emissions Budgets**  
**Regional Travel and Emissions Modeling**

### Conduct Supporting Technical Research

**Emission Factor Adjustment Study**  
**Fleet-Specific Emissions Analyses**

### Coordinate with State Model Development

**SIP Working Group**  
**Technical Working Group**  
**Photochemical Modeling Technical Committee**

# STATE IMPLEMENTATION PLAN

## Emissions Reduction Control Strategies

### Identify and Quantify Strategies

**Control Strategy Catalog**

**On-Road Mobile Source Responsibility**

### Implement Local Air Quality Projects

**Transportation Control Measures**

**Voluntary Mobile Emission Reduction Program**

**Other Local Programs**

### Monitor SIP Commitments

**Mobile Source Emissions Reduction Database**

**Transportation Control Measure Substitution**

# STATE IMPLEMENTATION PLAN

## Transportation Control Measures (TCMs)

TCM Program	Commitments (1/00-3/09)	2009 NOx Benefit
Bicycle/Pedestrian Projects	15.4 miles	0.008 tpd
Grade Separation Projects	84 locations	0.177 tpd
HOV/Managed Lane Projects	70.0 miles	0.792 tpd
Intersection Improvement Projects	655 locations	0.147 tpd
Park and Ride Projects	2,285 spaces	0.043 tpd
Rail Transit Projects	70.2 miles	0.284 tpd
Vanpool Projects	216 vanpools	0.084 tpd
Total Tons per Day (tpd) NOx Reduction		1.53 tpd

# STATE IMPLEMENTATION PLAN

## Voluntary Mobile Emissions Reduction Program (VMEP)

<b>VMEP Program Commitments (1/00-3/09)</b>	<b>2009 NOx Benefit</b>
<b>Clean Vehicle Program</b>	<b>0.24 tpd</b>
<b>Employee Trip Reduction</b>	<b>0.43 tpd</b>
<b>Locally Enforced Idling Restriction</b>	<b>0.62 tpd</b>
<b>Diesel Idling Reduction Program</b>	<b>0.33 tpd</b>
<b>SmartWay Transport Demonstration Project</b>	<b>0.00 tpd</b>
<b>Public Agency Policy for Construction Equipment</b>	<b>0.06 tpd</b>
<b>Aviation Efficiencies</b>	<b>0.95 tpd</b>
<b>Total Tons per Day (tpd) NOx Reduction</b>	<b>2.63 tpd</b>

# STATE IMPLEMENTATION PLAN

## Other Local Programs

### Transportation System Management

Arterial and Freeway Bottleneck Program

Intelligent Transportation Systems

Roadway Peak Period Pricing

Traffic Signal Improvements

Truck Lane Restriction Program

### Vehicle Miles Traveled Reduction

Parking Cash-Out Pilot Program

Pay-As-You-Drive Insurance Pilot Program

Sustainable Development

### Public Education

Air Quality Marketing and Outreach Program

DFW Clean Cities Technical Coalition

# STATE IMPLEMENTATION PLAN

## Other Local Programs

### Clean Vehicle and Equipment Programs

**Blue Skyways Collaborative**

**SmartWay Transport Partnership**

**Sustainable Skylines Program**

**Texas Emissions Reduction Plan Partnership**

### Inspection & Maintenance Programs

**AirCheckTexas Drive a Clean Machine Program**

**Dallas Emissions Enforcement Program**

**High Emitting Vehicle Program**

**Regional Smoking Vehicle Program**

### Energy Efficiency Measures

**LED Traffic Signal Replacement Program**

**Residential and Commercial Building Codes**

# AIR QUALITY CONFORMITY

## Conduct Transportation Conformity Analysis

**Regional Travel and Emissions Modeling**

**Status of Transportation Control Measures**

**Air Quality Conformity Documentation**

**Interagency Consultation Process**

**Public Involvement Process**

## Support Other Regional/National Conformity Efforts

**Technical Data**

**Emissions Reduction Credits**

**Peer Reviews**

# REGIONAL MOBILIZATION

## Policy Bodies

**North Texas Clean Air Steering Committee**  
**Regional Transportation Council**  
**Air Quality Subcommittee**  
**Intermodal Freight Subcommittee**  
**Sustainable Development Subcommittee**

## Technical Bodies

**Air Quality Public Relations Task Force**  
**DFW Clean Cities Technical Coalition**  
**Development Excellence Steering Committee**  
**Energy Efficiency & Emissions Reduction Roundtable**  
**Regional Codes Coordinating Committee**  
**Surface Transportation Technical Committee**

# **OTHER CONTRIBUTIONS**

**Transportation Research Board (TRB) Transportation & Air Quality Committee**

**Association of Metropolitan Planning Organization's (AMPO) Air Quality Committee**

**Houston Advanced Research Center's (HARC) Scientific Advisory Committee (SAC)**

**Texas Department of Transportation's (TxDOT) Technical Advisory Panel (TAP)**

**EPA's Blue Skyways Mobile Subcommittees**

**National Cooperative Highway Research Program (NCHRP) Conformity Project Panel**

**Center for Clean Air Policy's (CCAP) VMT & Climate Policy Dialogue**

**National Clean Cities Council**

**Texas Clean Air Working Group**



# **SUMMARY OF NCTCOG'S ROLE**

**Conduct Technical Analyses**

**Implement Local Air Quality Projects**

**Facilitate Regional Involvement**

**Coordinate With State and Federal Agencies**

# NCTCOG CONTACTS

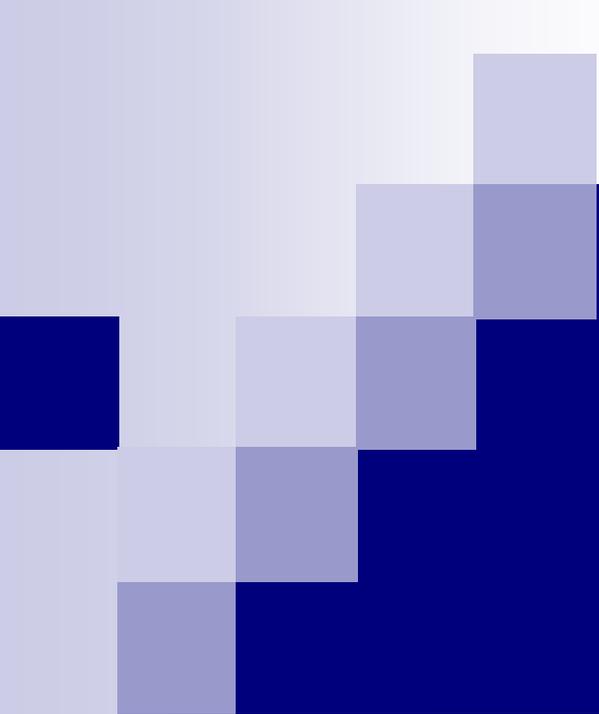
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# **INNOVATIVE AIR QUALITY PROGRAM HIGHLIGHTS**

# **CLEAN VEHICLE PROGRAMS**

## **Clean Vehicle Program**

**Federal CMAQ Funds – \$3,935,625**

**Clean Fleet Vehicle Policy – 83 Adoptees to Date**

**Public Entity/Local Government Call For Projects**

**Light- and Heavy-Duty Vehicle Awards – 190 Projects**

**Total NOx Emissions Reduction – 253.83 Tons**

## **North Texas Clean School Bus Program**

**Federal CMAQ and EPA Funds – \$879,437**

**Clean Technology and Best Practices (i.e. Idle Reduction)**

**Replacement, Repower, Retrofit Projects – 24 Projects**

**Total NOx Emissions Reduction – 20.91 Tons**

**TCEQ-Approved Supplemental Environmental Project**

**2008 Call For Projects Pending – \$400,000**

# **CLEAN VEHICLE PROGRAMS**

## **Texas Emissions Reduction Plan Partnership Program**

### **2006-2008**

**TCEQ\* Grant Funds– \$11,513,061**

**Public and Private Entity Call For Projects**

**Replacement, Repower, Retrofit Projects – 104 Projects**

**First Round – Refuse Haulers,**

**Second Round – General Projects**

**Total NOx Emissions Reduction – 2,227 Tons**

**Local Outreach and Application Assistance for Overall  
TCEQ-Administered Grant Program**

### **2009-2010**

**2009 Third-Party Grant Pending – \$10,000,000**

**2009 Focus on Construction, Idle Reduction, Local  
Government Projects**

# **CLEAN VEHICLE PROGRAMS**

## **Regulated Fleets – Green Taxi Program**

**RTC Local Funds/The Sue Pope Fund Award – \$1,625,000**  
**North Texas Green & Go Clean Taxi Partnership**  
**Dallas Sustainable Skylines Initiative**  
**First Come Grant for Tier II Bin 3 or Cleaner Taxi**  
**Anticipated Vehicle Awards – 325 Projects**

## **Diesel Idling Reduction Program**

**Federal CMAQ and EPA Funds – \$1,950,000**  
**On-Board and On-Site Projects**  
**CMAQ Funding Focused in Ozone Nonattainment Area**  
**EPA Award Allows for Inclusion of Transient Projects**

# **CLEAN VEHICLE POLICIES**

## **Clean Fleet Vehicle Policy**

**Endorsed by Regional Transportation Council**

**83 Regional Adoptees to Date**

**Criteria for Clean Vehicle Funding**

**May be Considered in General Funding Decisions**

**Formalizes Best Practices for Public Fleet Acquisition,  
Operations, and Maintenance**

## **Locally Enforced Idling Restrictions**

**Endorsed by Regional Transportation Council**

**May be Considered in General Funding Decisions**

**Prohibits Heavy-Duty Idling in Adopting Jurisdictions**

## **Public Agency Policy for Construction Equipment**

**In Development for Public Owned and Contracted Equipment**

**Includes Specification for Engines and Equipment Operation**

# INSPECTION & MAINTENANCE

## AirCheckTexas Drive a Clean Machine Program

**Funds from TCEQ\* – \$22,000,000 Annually for North Texas  
Helps Low-Middle Income Residents Repair or Replace  
Vehicles that Do Not Pass Emissions Inspection or  
Are  $\geq$  10 Years Old**

**Provides up to \$600 for Repair or \$3,500 for Replacement  
December 12, 2007 – September 18, 2008**

**8,178 Vehicles Retired and Replaced  
1,616 Repaired**

**[www.DriveaCleanMachine.org](http://www.DriveaCleanMachine.org)**



# INSPECTION & MAINTENANCE

## Regional Smoking Vehicle Program

**To Advise Vehicle Owners of Possible Emission Problems**

**Local Citizen Identification Efforts**

**Online Reporting Available at [www.smokingvehicle.net](http://www.smokingvehicle.net)**

**Wireless Phone Reporting Available at #SMOKE (#76653)**

**Landline Phone Reporting Available at (817) 704-2522**

**Received Over 6,800 Notifications in First Year**



**Don't Choke, Call #SMOKE**

# ENFORCEMENT STRATEGIES

## Regional Emissions Enforcement Program

- Reduce Number of Fictitious/Counterfeit Inspection Certificates**
- Identify Stations/Inspectors Performing Improper Inspections**
- Conduct Covert Operations**
- Prosecute for Counterfeit Inspection Certificates**
- Enforce Truck Lane Restrictions**
- Support Anti-Idling Restrictions**
- Enforce Smoking Vehicle Statute**
- Train Local Law Enforcement Officers**



## Emissions Information System

- Assist Enforcement of Fictitious/Counterfeit Inspection Certificates and Smoking Vehicles**
- Internet-Based, Password-Protected and Available to Law Enforcement Agencies 24/7**
- Cross References Five Different Databases**

# EDUCATION CAMPAIGNS

## North Texas Clean Air Coalition

**Educates, Engages, and Recognizes the Business Community on Clean Air Efforts**

## DFW Clean Cities Technical Coalition

**Clearinghouse for Information and Education on Clean Fuel and Advanced Technology Vehicles, Programs, and Policies with a Focus on Petroleum Reduction and Air Quality Benefits**

## Air North Texas

**A Voluntary Effort and a Creative Platform to Develop a Regional Brand and Voice to Generate Public Awareness that will Foster Behavioral Changes in the Community to Help Improve Air Quality**

**An All-Inclusive Branding Effort that will Serve to Bridge All Air Quality Programs Into One Comprehensive and Versatile Initiative**