

# Congestion Mitigation and Air Quality Improvement (CMAQ) Program

*Informational Webinar*  
Tuesday, May 17, 2016

1-800-250-2185

or computer speakers for audio

\*Please mute your phone or microphone during the webinar.

**TDOT Long Range Planning Division**

# CMAQ Program Staff and Contacts

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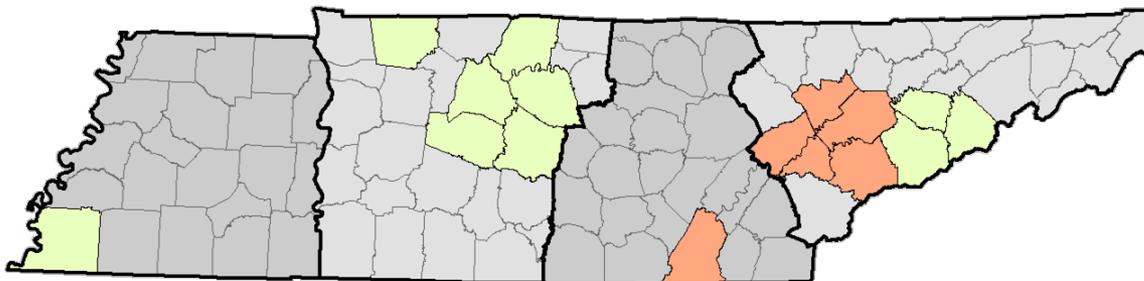
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Region 4

Region 3

Region 2

Region 1



# Agenda

- Overview
- Eligibility
- Funding Opportunities
- Application Process
- Q & A

# CMAQ

## WHAT IS CMAQ?

Federal funding for transportation projects that ***improve air quality and reduce congestion***



## THREE MAIN REQUIREMENTS...

- Must be a transportation project
- Must reduce emissions (PM 2.5, NOx or VOCs) from mobile sources (cars, trucks, buses) or non-mobile sources (locomotive, tugs)
- Must benefit air quality in air quality nonattainment and maintenance areas

# CMAQ-Eligible Project Areas

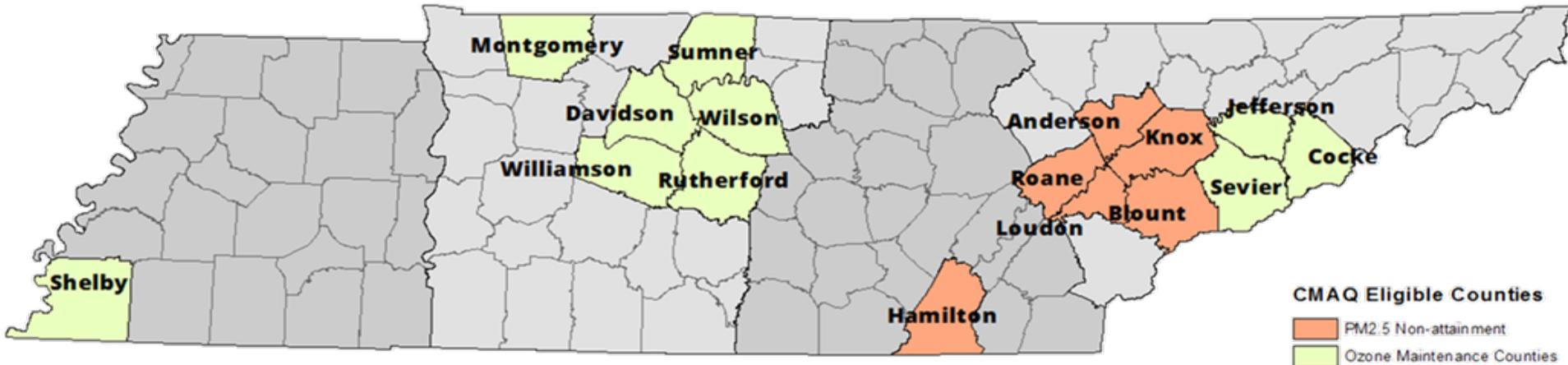
## CMAQ-Eligible Project Areas

TDOT Region 4

TDOT Region 3

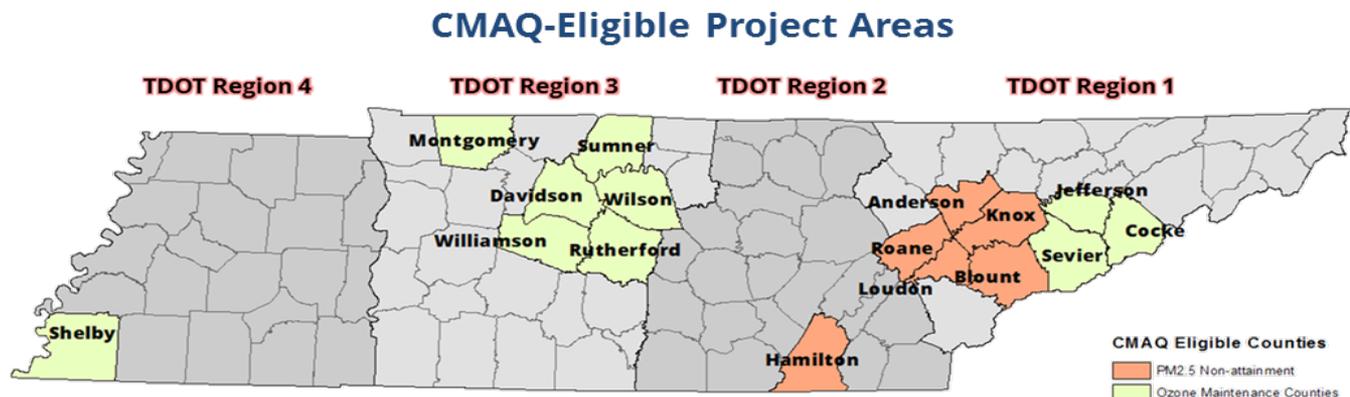
TDOT Region 2

TDOT Region 1



# CMAQ-Eligible Project Areas

- Air quality nonattainment/maintenance areas only
- Five Tennessee areas eligible for CMAQ
  - Chattanooga, Clarksville, Knoxville, Memphis, Nashville
  - Knoxville area includes Jefferson County
- Six nonattainment MPOs
  - Four largest metro areas
  - Lakeway (Jefferson County)
  - Clarksville/Montgomery County



# Funding

- CMAQ funding pays a maximum of 80% eligible project costs\*
- Minimum match of 20% by project sponsor (non federal funds)

\*Some projects qualify for 100% federal funding (ridesharing, signal related/ITS, and safety). Most projects with private entities are eligible for 50% federal funding.

# 2016 CMAQ Process

Competition is divided into **two separate categories**. Based on the nature of the proposal, applicants need to select one of the two project competitions.

## 1) **General Call for CMAQ Project Proposals**

- **Bicycle and Pedestrian Facilities**
- **Intelligent Transportation Systems**
- **Intermodal Freight**
- **Traffic Flow Improvements**
- **Cleaner Diesel Technologies**
- **Transportation Demand Management**

## 2) **Strategic Air Quality Initiatives**

- **New or Expanded Transit Service**
- **Park and Ride Lots**
- **Diesel Emission Reduction Projects**

# General Call vs. Strategic Initiatives

**All proposals require emission reduction analyses**

TDOT will provide this analysis for Strategic Initiatives

The applicant must provide the analysis for General Call Projects

**Strategic Initiative *applications* are essentially FAST-TRACKED**

*Does not guarantee project will be selected*

# General Call for Projects

- Bicycle and Pedestrian Facilities
- Intelligent Transportation Systems
- Intermodal Freight Projects
- Traffic Flow Improvements
- Transportation Demand Management
- Education and Outreach
- Others

## *New with FAST Act:*

- Vehicle-to-infrastructure Communications Equipment
- Projects that reduce emissions from port-related landside onroad and nonroad equipment



# Strategic Air Quality Initiatives

## New or Expanded Transit Service

This will add or expand transit along key commuting corridors and can include areas not currently served by existing transit service

- New routes can make transit a viable alternative to the personal automobile
- Reducing vehicle trips reduces air emissions, saves fuel costs, and decreases congestion levels



# Strategic Air Quality Initiatives

## Park and Ride Lots

**This will expand opportunities for ridesharing and transit by adding these facilities serving commuters. These lots improve air quality because they help commuters use these transportation alternatives**

- Reduce trip costs
- Reduce number of trips made
- Reduce peak demand on roadways



# Strategic Air Quality Initiatives

## Diesel Emission Reduction Projects

Funding to reduce transportation-related emissions from existing diesel engines. Project awards are available to public and private vehicle fleet and equipment owners for eligible diesel emissions reduction solutions

- Onroad Heavy-Duty Diesel Vehicles
- Nonroad Diesel Engines and Equipment



# Application Process

## Step 1

- **Letter of Intent**
  - Completed online
  - Submitted to TDOT no later than **May 27**

### Requirements

Applications must be submitted online.

A separate application package is required for each project proposal.

A Letter of Intent is required for each proposed project and must be received by May 27, 2016.

The deadline for applications is July 1, 2016.

Submit Letter of Intent

Submit Application

# Application Process

## Step 2 & 3

- Complete Signature Page
- Submit Application
  - Completed online
  - Submitted to TDOT no later than **July 1**

### Documents and Guidance

- [2016 CMAQ Letter of Intent Example \(PDF\)](#)
- [2016 General Project Proposal Guidance \(PDF\)](#)
- [2016 Project Selection Criteria \(PDF\)](#)
- [2016 CMAQ Project Application Fact Sheet \(PDF\)](#)
- [Guidelines for Estimating Emission Reductions/ Cost-Effectiveness \(PDF\)](#)
- [2016 General Competition Budget Worksheet \(Excel\)](#)
- [2016 CMAQ Project Application Signature Page \(Fillable PDF\)](#)
- [2016 CMAQ Project Application Example \(PDF\)](#)
  
- [Transit Service Budget Worksheet \(Excel\)](#)
- [2016 CMAQ Transit Service Project Application Example \(PDF\)](#)
  
- [Park and Ride Lot Budget Worksheet \(Excel\)](#)
- [2016 CMAQ Park and Ride Project Application Example \(PDF\)](#)
  
- [Diesel Emission Reduction Projects Vehicle Information Form \(Word\)](#)
- [2016 CMAQ Diesel Emission Reduction Project Application Example \(PDF\)](#)

### Requirements

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A Letter of Intent is required for each proposed project and must be received by May 27, 2016.

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[Submit Letter of Intent](#)

[Submit Application](#)

Available **HERE**



<https://www.tn.gov/tdot/article/cmaq-funding>

# Application Process

## Resources

- Fact Sheets
- Budget Worksheets
  - General Competition
  - Transit Service
  - Park and Ride



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- [Diesel Emission Reduction Projects Vehicle Information Form \(Word\)](#)
- [2016 CMAQ Diesel Emission Reduction Project Application Example \(PDF\)](#)

# Application Process

## Things to Remember

- All proposals require emission reduction analyses
  - *TDOT will provide this analysis for Strategic Initiatives. The applicant must provide the analysis for other projects.*
- Detailed project description required
- Identify/verify all sources of match funding
- No “endless” projects
- Avoid ineligible project elements
- Projects must not add highway capacity or vehicle fleet size



# Project Selection Criteria

CMAQ projects evaluated and ranked through project selection process

Emission Reduction Estimates: 0-20 points

Cost-Effectiveness of Project Emission Reductions: 0-20 points

Quality of Emission Reduction Estimation Methodology and Analysis: 0-20 points

Innovation, Regional Diversity, and Complementary Projects: 0-10 points

Regional Priorities: 0-10 points

Project Delivery Plan: 0-20 points

# Importance of Emissions to Project Score

Project Type	CO	NOx	VOC	PM10	PM2.5
Dust Mitigation					
Diesel Retrofits					
Idle Reduction Strategies					
Heavy Vehicle Engine Replacements (Diesel)					
Park and Ride					
Incident Management					
Transit Service Expansion					
Extreme-Temperature Cold Start Technologies					
Bicycle and Pedestrian					
Transit Amenity Improvements					
Employee Transit Benefits					
Carsharing					
Intermodal Freight					
Intersection Improvements					
Natural Gas Fueling Infrastructure					
Ridesharing					
Roundabouts					
Bikesharing					
Subsidized Transit Fares					
Electric Charging Stations					

## Legend:

	\$	10,000		
	\$	10,000	-	\$ 49,999
	\$	50,000	-	\$ 99,999
	\$	100,000	-	\$ 249,999
	\$	250,000	-	\$ 499,999
	\$	500,000	-	\$ 999,999
	\$	1,000,000	-	\$ 1,999,999
	\$	2,000,000	-	\$ 4,999,999
	\$	5,000,000	-	\$ 9,999,999
	\$	10,000,000	-	\$ 19,999,999
	\$	20,000,000	+	
				Not Applicable

## Median Cost-Effectiveness Estimates(Dollars per Ton of Pollutant Reduced)

[https://www.fhwa.dot.gov/environment/air\\_quality/cmaq/reference/cost\\_effectiveness\\_tables/#Toc445205100](https://www.fhwa.dot.gov/environment/air_quality/cmaq/reference/cost_effectiveness_tables/#Toc445205100)

# Project Selection Criteria

- Proposals evaluated and scored by CMAQ Proposal Review Team (TDOT, TDEC, Dept. of Health)
- Scores based on the range of points assigned to each project selection criterion High-scoring projects arrayed in a list
- Some consideration to geographic distribution
- Recommendations to Commissioner
- Award letters to project sponsors on selected projects

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# Reference Information

## TDOT CMAQ Page

<http://www.tn.gov/tdot/topic/cmaq>

- *Funding opportunities through TDOT*
- *Application guidance and materials*

## FHWA CMAQ Page

[http://www.fhwa.dot.gov/environment/air\\_quality/cmaq/](http://www.fhwa.dot.gov/environment/air_quality/cmaq/)

- *FHWA CMAQ Program Guidance*  
[http://www.fhwa.dot.gov/environment/air\\_quality/cmaq/policy\\_and\\_guidance/cmaq13ig.cfm](http://www.fhwa.dot.gov/environment/air_quality/cmaq/policy_and_guidance/cmaq13ig.cfm)
- *Cost Effectiveness Tables*  
[http://www.fhwa.dot.gov/environment/air\\_quality/cmaq/reference/cost\\_effectiveness\\_tables/index.cfm](http://www.fhwa.dot.gov/environment/air_quality/cmaq/reference/cost_effectiveness_tables/index.cfm)
- *CMAQ Fact Sheets (FAST Act)* <https://www.fhwa.dot.gov/fastact/factsheets/cmaqfs.pdf>