

PERFORMANCE BASED PLANNING & PROGRAMMING

CMAQ Program: Emissions Reductions

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MWAQC Technical Advisory Committee
March 13, 2018



National Capital Region
Transportation Planning Board

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CMAQ Program - Purpose

- The Congestion Mitigation and Air Quality (CMAQ) program was implemented to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief.
 - Provides a flexible funding source to State and local governments for transportation projects and programs to help meet the requirements of the Clean Air Act.
- CMAQ funds are used for:
 - Transportation projects or programs that reduce congestion and improve air quality in areas that do not meet the National Ambient Air Quality Standards.



CMAQ Program – Requirements and Projects

- Three federal requirements for CMAQ Funding:
 - Must be a transportation project, it must generate an emissions reduction, and it must be located in or benefit a nonattainment or maintenance area.
- Some types of projects eligible for CMAQ Programming:
 - Bicycle and Pedestrian Facilities and Programs (Bike Paths)
 - Travel Demand Management (Telecommuting)
 - Transit Improvements (New transit vehicles)
 - Congestion Reduction & Traffic Flow Improvements (HOT & HOV Lanes)



System Performance: CMAQ Program (Congestion Mitigation and Air Quality)

	Performance Measures
CMAQ Program: Traffic Congestion	(5) Peak Hour Excessive Delay – Annual hours of peak hour excessive delay per capita
	(6) Mode Share - Percent of Non-SOV Travel on the NHS
CMAQ Program: Emissions Reduction	(7) Emission - CMAQ-funded projects on-road mobile source total emission reductions for each applicable criteria pollutant and precursor

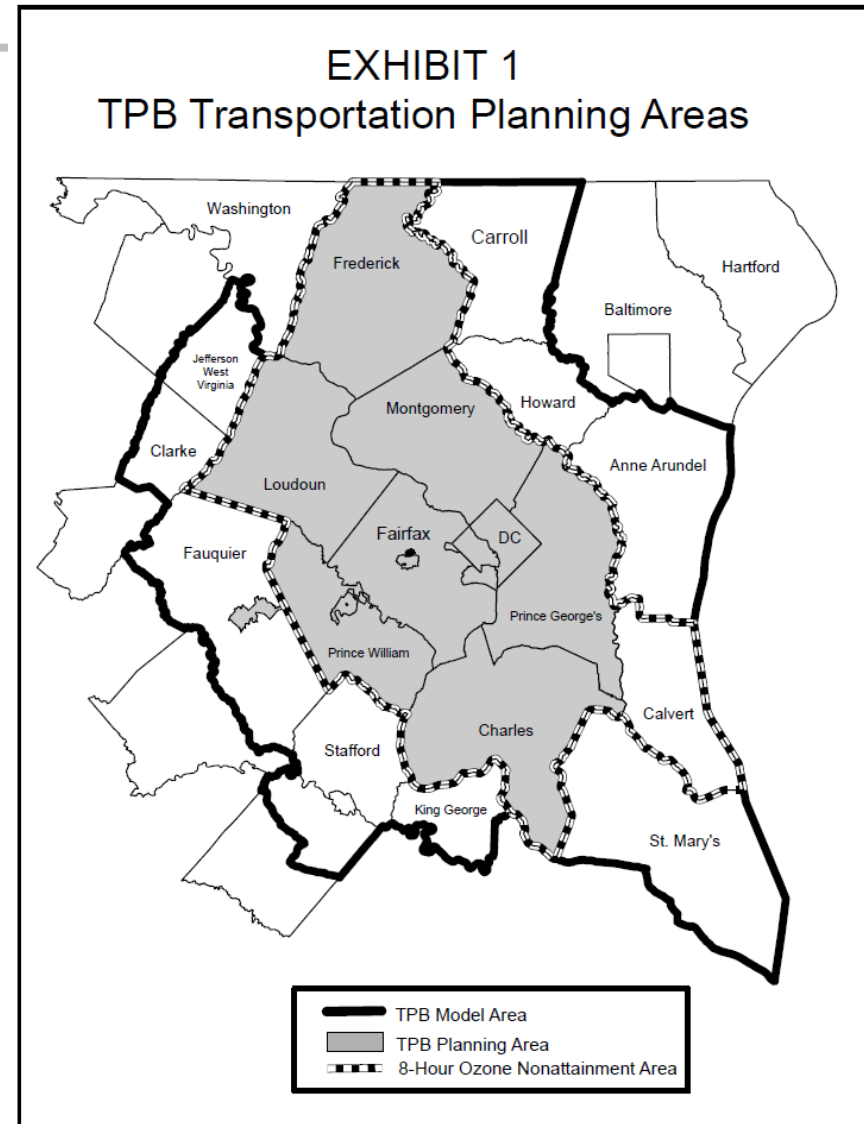
CMAQ Program: Emissions Measure

- CMAQ Emissions measure applies to non-attainment or maintenance areas.
 - Applicable State DOTs and MPOs (serving a TMA with a population over 1 million) must coordinate on and collectively establish a methodology for developing 2-year and 4-year targets for each applicable pollutant and precursor for all non-attainment or maintenance areas.
 - State DOTs must develop targets with the coordination from MPOs by May 20, 2018. MPOs must establish targets six months after State DOTs.
- A baseline report from the DOTs for the first performance period (2018-2021) is due October 1, 2018, and must include baseline data for CMAQ projects from FY2014-2017, 2- and 4-year targets, and a description of the data collection method used.



Ozone Nonattainment Area

- Ozone precursors Volatile Organic Compounds (VOC) and Nitrogen Oxides (NOx) are the only pollutants for which the region needs to report on CMAQ Program Emissions Reductions.
- Calvert County is inside the Washington DC-MD-VA nonattainment area, but outside TPB's planning area.
 - Responsibility handled by Calvert-St Mary's MPO (C-SMMPO).



CMAQ Program: Emissions Measure

- Measure: Total Emissions Reduction
 - Total emissions reduction is calculated by summing 2-and 4-year totals of emissions reductions of applicable criteria pollutant and precursor, in kilograms per day, for all projects funded with CMAQ funds.
- Calculation: Cumulative two and four-year emissions reductions for CMAQ funded projects:
- Targets will reflect the anticipated cumulative emissions reduction to be reported in the CMAQ Public Access System.



CMAQ Public Access System

- Database used to collect information for the emissions reduction measure.
- State DOTs are required to provide FY data by the following March 1.
 - After review by the FHWA data is released to the public (MPOs have access) September 30.
- Navigation of the CMAQ PAS
 - Reports
 - Program Information
 - Project Year
 - Project Reporting Category
 - Program Location
 - Project State
 - Project MPO



CMAQ Performance Plan

- In addition to the MPO coordinating and establishing 2-and 4-year targets, the MPO is required to complete a CMAQ Performance Plan.
- This is a requirement for MPOs that contain nonattainment or maintenance areas with a population over 1 million.
- CMAQ Performance Plan includes:
 - CMAQ: Mobile Source Emissions
 - CMAQ: Mode Share (Non-SOV)
 - CMAQ: Peak Hour Excessive Delay (PHED)
- The Performance Plan will provide information on projects associated with the reduction of emissions/congestion.
- Anticipating additional guidance on the CMAQ Performance Plan from FHWA.



Next Steps

- CMAQ Program: Emissions Reductions measure
 - TPB staff will continue work on developing a forecasting methodology that could be used for target setting.
 - Coordinate with DOTs and other parties on data, measures, forecasting methodology, and targets.
 - Brief TPB and Tech on measures and draft targets at May meeting.
 - TPB adopt targets at June meeting.
 - Complete CMAQ Performance Plan and submit to State DOTs by September



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