CMAQ Program

Mid-Performance Period Progress Report FY 2022-2025 Performance Period





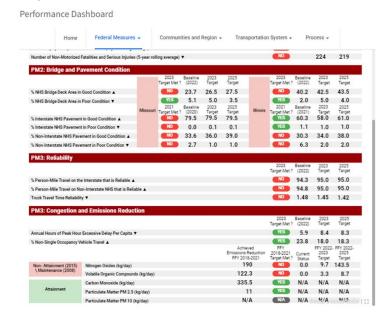
Christie Holland



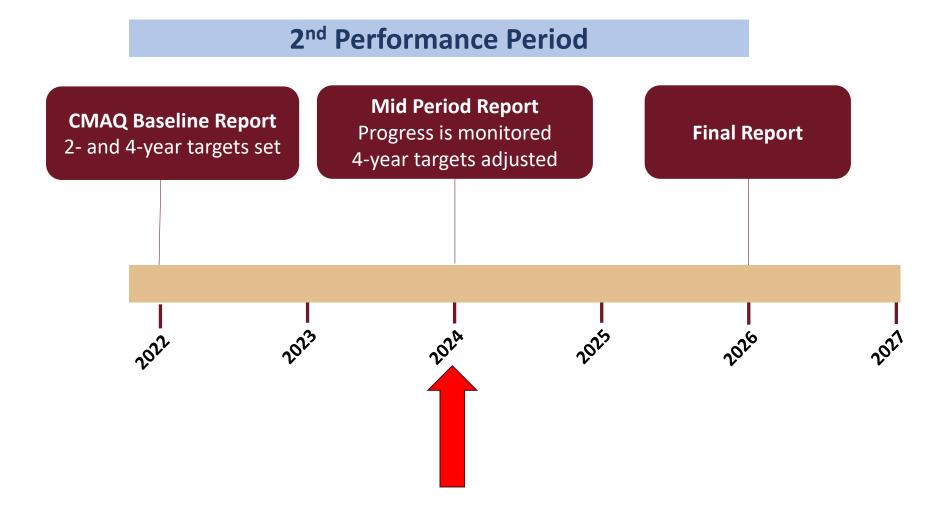
CMAQ Funding Program

- Competitive funding program administered by EWG (\$\$\$) for addressing) for ozone, carbon monoxide, and/or particulate matter
- Federally required to set 2-and 4year targets for
 - Peak Hour Excessive Delay (PHED)
 - Non- Single Occupancy Vehicle Travel (Non-SOV)
 - On-road Mobile Source Emission Reduction

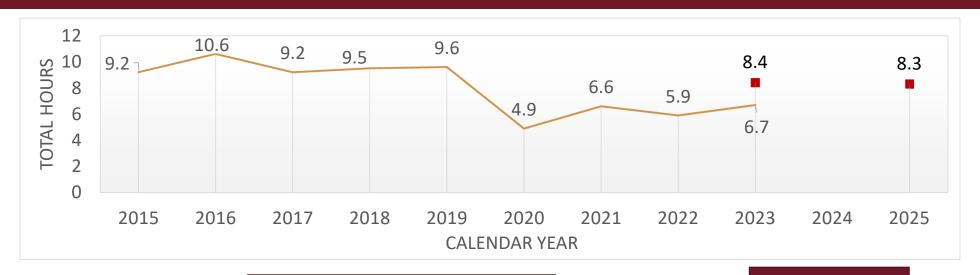
Find the measures on the System Performance Dashboard



Performance Reporting Timeline



Peak Hour Excessive Delay (PHED) Targets



2-Year Target Performance

4-Year Target



2023 Target: 8.4 hours 2023 Actual: 6.7 hours

Met Target: Yes

Target

2025: 8.3 hours

Percent Non-SOV Travel Targets



2-Year Target Performance

4-Year Target



2023 Target: 18.0% 2022 Actual: 23.8%

Met Target: Yes

Target

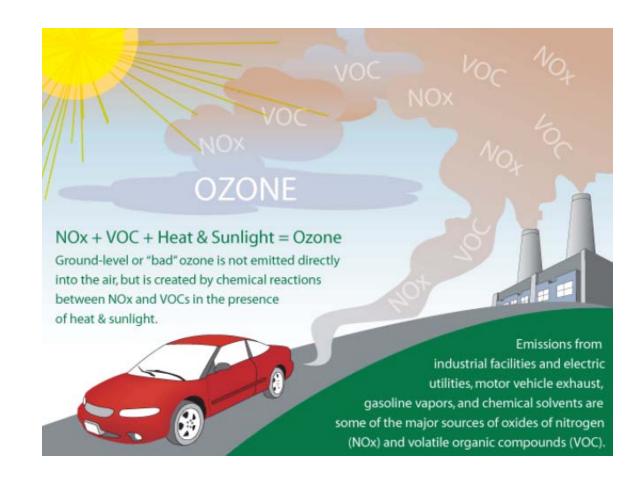
2025: 24.0%

Adjusted

On-Road Mobile Source Emissions Reduction

Total Emissions Reduction Measure

 Cumulative estimated emission reductions, for all CMAQ funded projects, of each applicable criteria pollutant and precursor



Emissions Reduction

Pollutants	2-Year Target (kg/day)	2-Year Reported (kg/day)	Target Met	4-year Target (kg/day)
Nitrogen Oxides (NOx)	9.671	146.193	YES	143.483
Volatile Organic Compounds (VOC)	3.308	7.011	YES	8.673

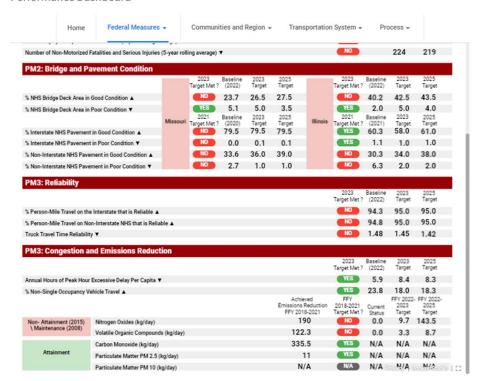
The Marine Vessel Engine Repower project in MO significantly contributed to these achievements

Summary

To summarize, 2025 targets were reviewed based on system performance from 2023. Based on that review the following 2025 4-year targets are recommended.

Performance Measure	2021 Baseline	2023 Performance	2023 2-Year Target	2025 4-Year Target	4-Year Target Adjusted
PHED measure (hours)	6.6	6.7	8.4	8.3	NO
Non-SOV measure (%)	19.5%*	23.8%***	18.0%	24.0%	YES
Emissions Reduction for NO _x (kg/day)	96.062**	146.193	9.671	143.483	NO
Emissions Reduction for VOC (kg/day)	18.359**	7.011	3.308	8.673	NO

Performance Dashboard



Find the measures on the System Performance Dashboard





Creating Solutions Across Jurisdictional Boundaries

Missouri						
	2-Year Target (2022-2023)					
	Comparison to actual 2-					
	Yea	r Performa	nce			
Pollutant	2-Year					
	Target 2-Year					
	(kg/da	Reported	Target			
	y)	(kg/day)	Met			
Nitrogen Oxides						
(NOx)	8.836	145.943	YES			
Volatile Organic						
Compounds (VOC)	2.940	6.990	YES			

Illinois					
	-Year T	arget (2022	2-2023)		
	Comp	arison to a	ctual 2-		
	Yea	r Performa	ince		
Pollutant	2-Year				
	Target	2-Year			
	(kg/da	Reported	Target		
	y)	(kg/day)	Met		
Nitrogen Oxides					
(NOx)	0.836	0.250	NO		
Volatile Organic					
Compounds (VOC)	0.368 0.021				



Content

- 1. Overview and Timeline
- 2. Performance Measures and Targets

CMAQ Performance Plan
Mid-Performance Period Progress Report
FY 2022-2025 Performance Perio
East-West Gateway Council of Governments



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Applicability Determination

October 2021 - FHWA released an applicability determination for the 2nd performance period

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Applicability for Traffic Congestion Measures

MPO Name	Urbanized area with population > 200K overlapping with MPA	Do the MPA, urbanized area and at least one designated nonattainment or maintenance area overlap? And does that overlap area contain any NHS route segments, according to HPMS?
East-West Gateway Council of Government	St. Louis, MOIL	Yes- Required to establish targets for the traffic congestion measures for the urbanized area.

Applicability for On-Road Mobile Source Emissions Measures

MPO Name	Applicability Parameter		National Ambient Air Quality Standards (NAAQS)					Precursors				
MPOs subject to On-Road Mobile Source Emissions Measure	Do the MPA; urbanized area with population > 1m; and any one of the designated nonattainment or maintenance Area(s) Overlap?	Name of urbanized area with population > 1m overlapping with MPA	Name of additional urbanized area with population > 1m overlapping with MPA	24- hour PM10	PM2.5 (1997)	PM2.5 (2006)	PM2.5 (2012)	Ozone (2008)	Ozone (2015)	со	voc	NOx
East-West Gateway Council of Government	Yes - CMAQ Performance Plan Required	St. Louis, MO-IL						YES	YES		YES	YES

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don't think we need to include this Christie Holland, 2024-08-22T19:56:45.394 CH0

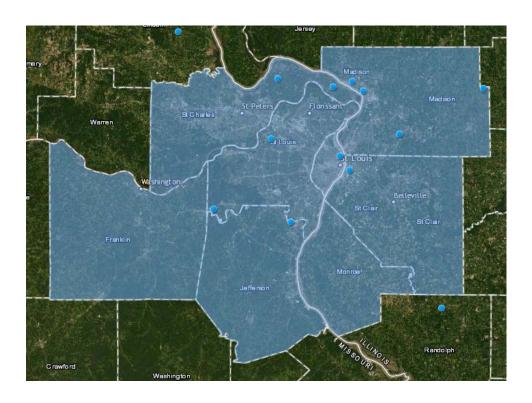
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Saranya Konala, 2024-08-23T14:52:04.157

Regional Attainment Status

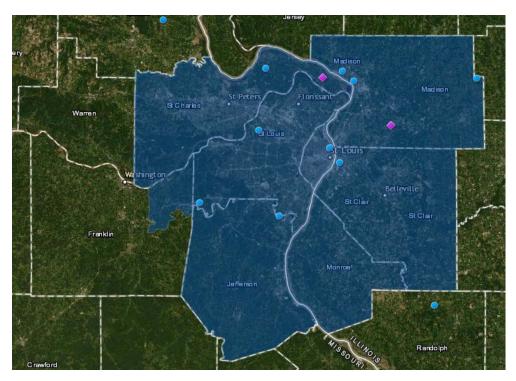
8 hour ozone (2008 Standard)

- Maintenance Area
- "Marginal" Classification



8-hour ozone (2015 standard)

- Nonattainment Area
- "Marginal" Classification

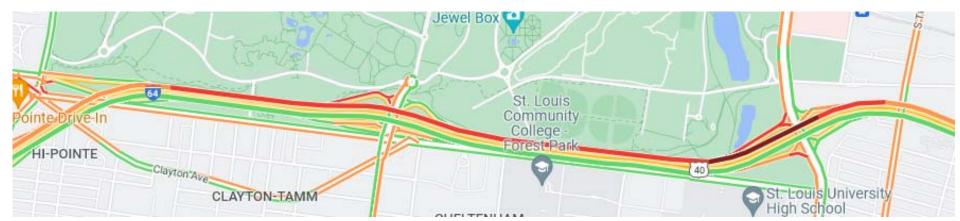


Peak Hour Excessive Delay (PHED)

Traffic Congestion measure

- Excessive delay that travelers experience per year from traveling on National Highway System (NHS) roadways during peak travel periods per capita
- Our region's peak is 3pm to 7pm





Percent Non-Single Occupancy Vehicle (SOV) Travel

Traffic Congestion measure

- Percentage of "trips" that occur in Non-SOV vehicles or modes, including telecommuting, transit, carpooling, biking, and walking
- American Community Survey (ACS) Data









Missouri Target			Illinois Target					
Emissions Reduction Measure	2- and 4- year En each applicable precursor for all CMA	criteria poll	utant and	each applicable criteria			ia pollutant and	
Missouri	FFY 2022-2025 CMAQ Program (kg/day)	2-year (kg/day)	4-year (kg/day)	Illinois	FFY 2022-2025 CMAQ Program (kg/day)	2-year (kg/day)	4-year (kg/day)	
Nitrogen Oxides (NOx)	142.004	8.836	142.004	Nitrogen Oxides (NOx)	1.479	0.836	1.479	
Volatile Organic Compounds (VOC)	8.209	2.940	8.209	Volatile Organic Compounds (VOC)	0.464	0.368	0.464	

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Emissions Reduction – 2nd Performance Period Targets

Total Emissions Reduction Target						
Total Emissions	2- and 4- year Total Emission Reductions for each applicable criteria pollutant and precursor for all projects funded with CMAQ funds					
Reduction Measure	2-year Target (kg/day)	4-year Target (kg/day)				
Nitrogen Oxides (NOx)	9.671	143.483				
Volatile Organic Compounds (VOC)	3.308	8.673				