

OUTLINE

EPA On-Road Models MPO Applications

Emission Calculation Process

Resource Planning

Attainment Demonstration On-Road Emissions Inventories (EI)

Observations

Local Initiatives

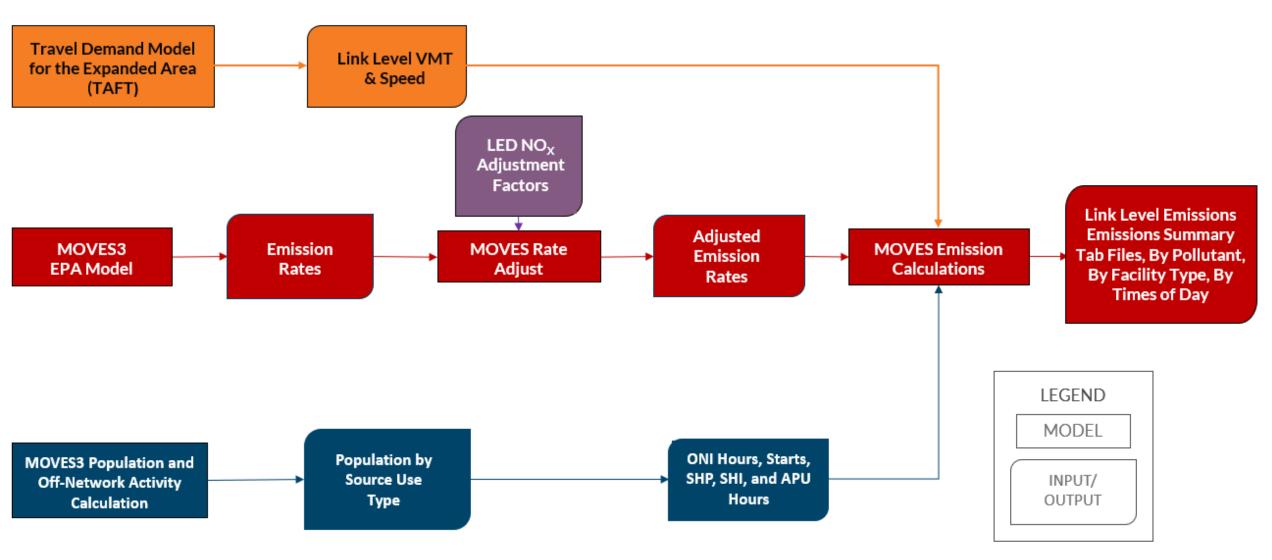


EPA ON-ROAD MODELS: NCTCOG APPLICATION





EMISSION CALCULATION PROCESS





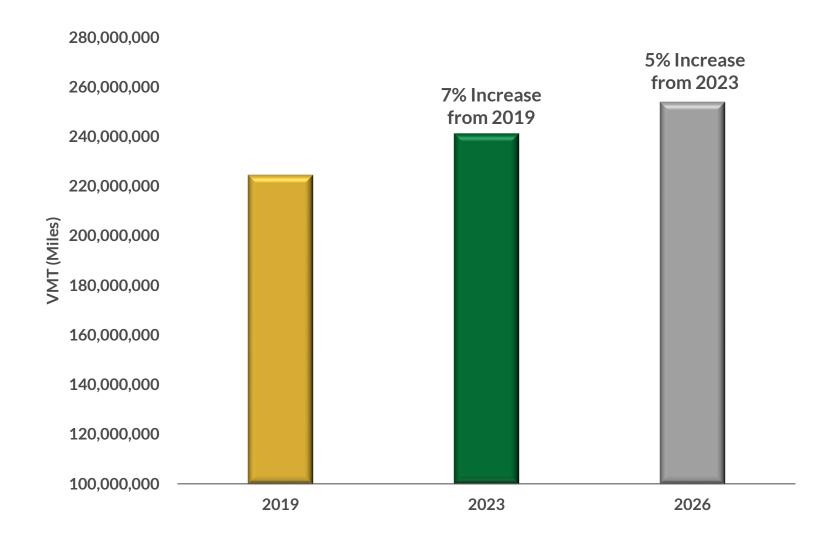
RESOURCE PLANNING

12-County DFW MPA

	Single Analysis Year	Conformity Analysis (4 analysis years)	ADSIP (link-level Emissions 3 analysis years)
MOVES Input Setup (hours)	12	48	36
MOVES Rate Runs (hours)	24	96	72
Hard drive Space (GB)	10	40	1800

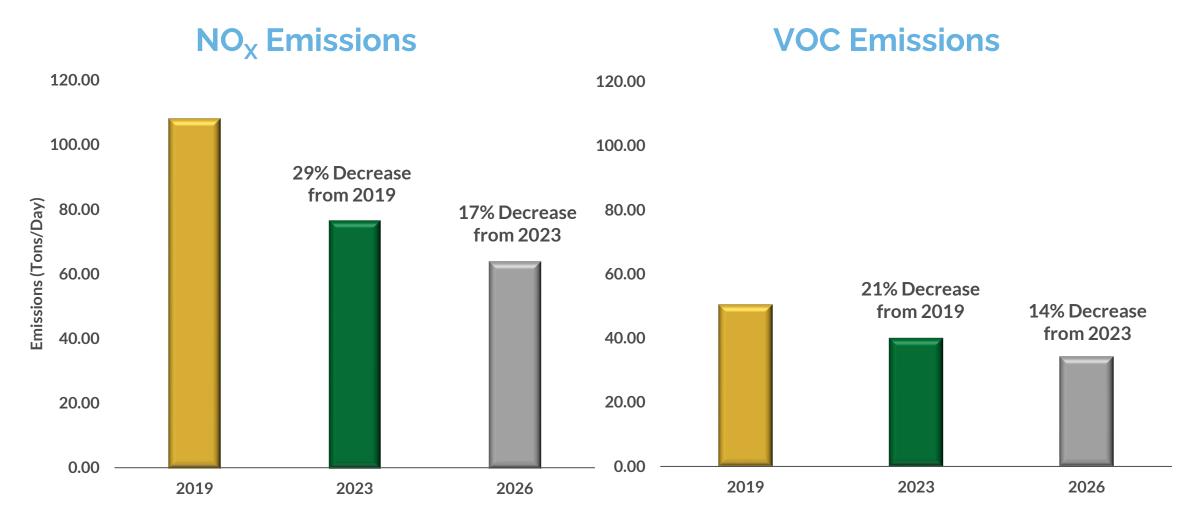


12-County MPA, Vehicle Miles Traveled (VMT)



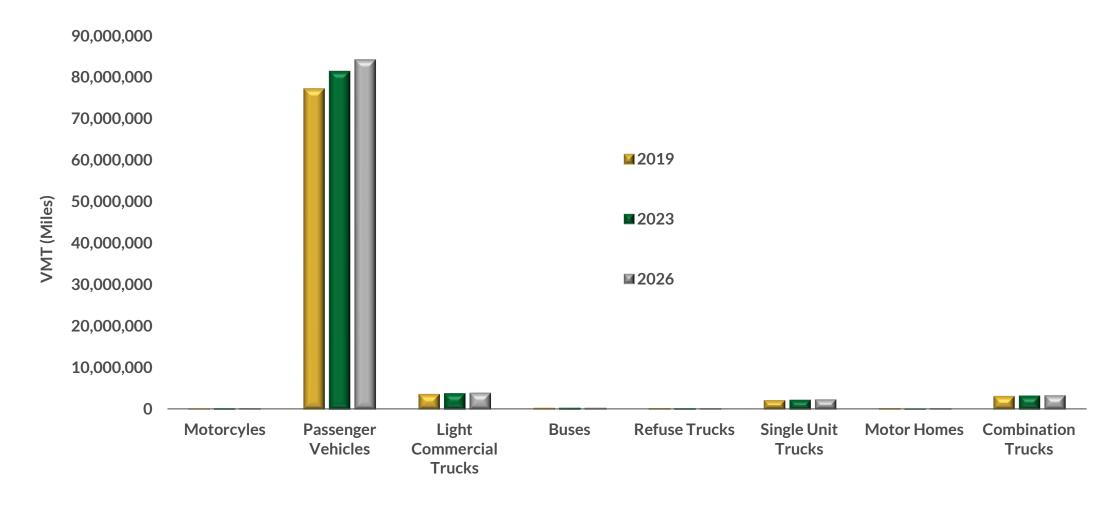


12-County MPA, Emissions



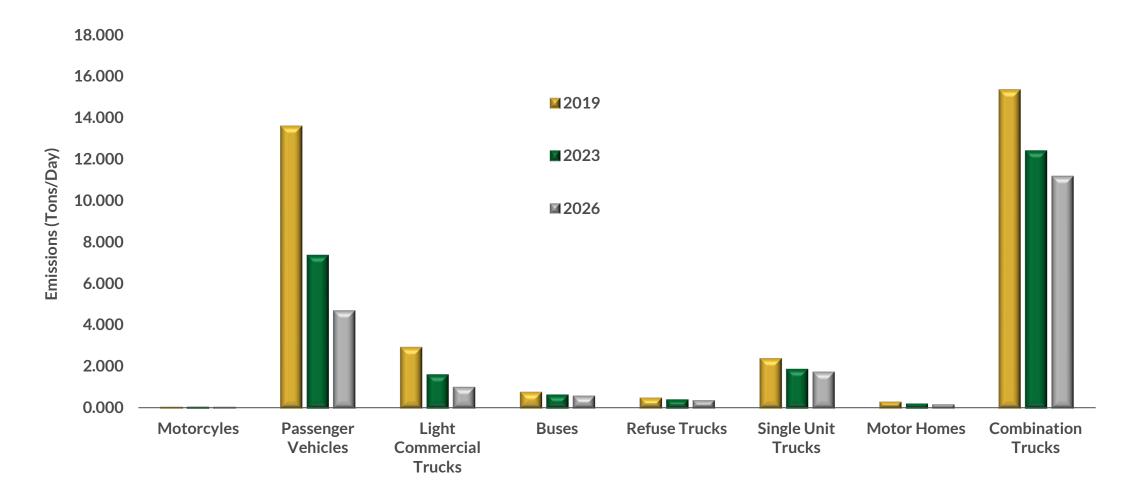


Dallas County, VMT, Vehicle Types



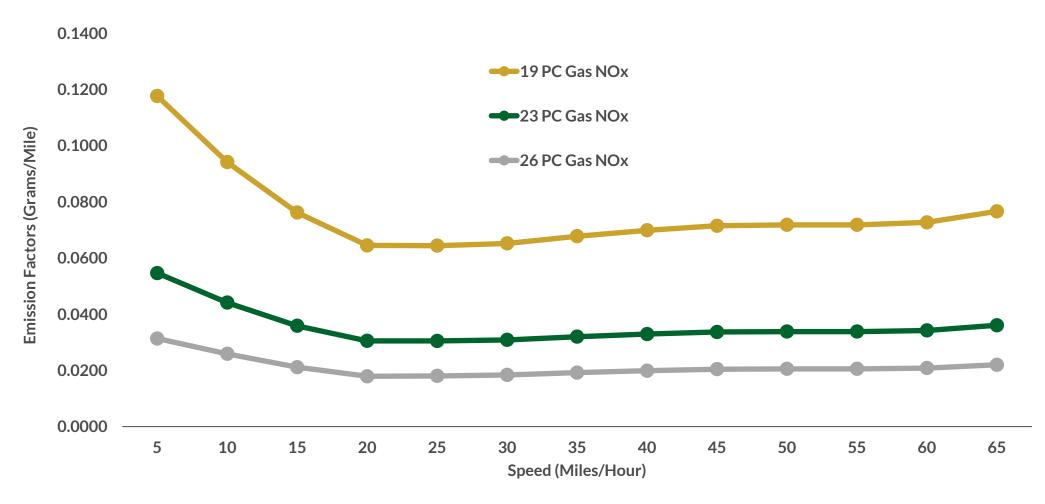


Dallas County, NO_x Emissions, Vehicle Types



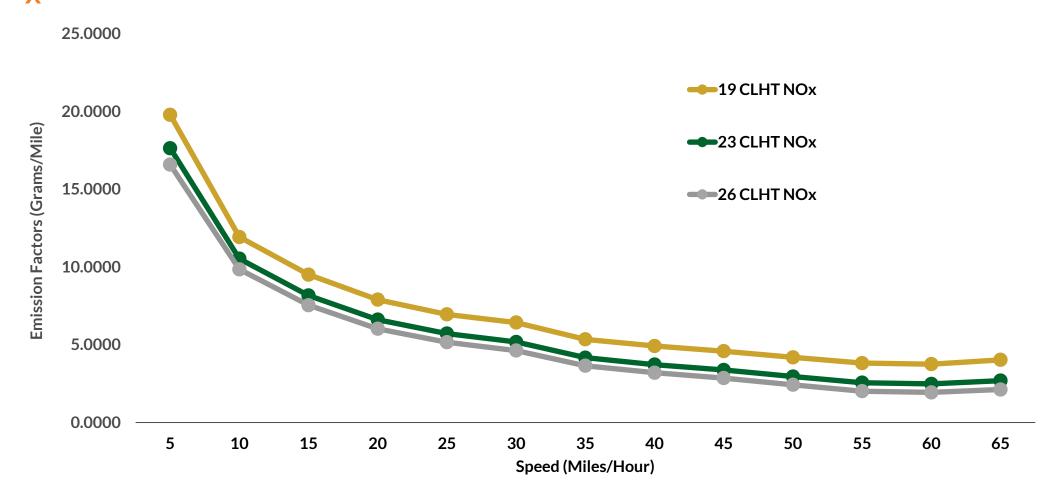


Dallas County, Freeway, Passenger Car Gas, NO_X Emission Rates





Dallas County, Freeway, Combination Long-Haul Truck Diesel, NO_x Emission Rates





OBSERVATIONS

Emissions

Comparing the 2019, 2023, and 2026 Analysis Years, even with increasing VMT, both NO_X emissions and VOC emissions continue to decrease from the base year (primarily due to fleet turnover)

Combination Trucks (especially diesel) are still a significant source of NO_X emissions

Emission Rates

Lower NO_X rates for Passenger Cars and higher NO_X rates for Combination Trucks for all three 2019, 2023, and 2026 Analysis Years

Higher NO_X rates when the vehicles are idling or driven below 10 miles/hour



SAMPLE OF AIR QUALITY INITIATIVES































































LOCAL INITIATIVES

Air Quality Public Education and Communication

Communication efforts strategically created and implemented to educate and inform the region on:

- Current air quality levels and associated impacts
- Funding opportunities
- New programs and/or policies

Air North Texas Coalition

- Created in 2007
- Strives to create a unified message and brand related to air quality with regional partners
- Teaches local governments and the general public about health impacts of emissions and encourages the use of voluntary measures that help reduce emissions such as:
 - > Vehicle maintenance
 - > Combining errands
 - > Ridesharing
 - > Reducing idling
 - > Promoting existing NCTCOG emission reduction programs, like TryParkingIt.com, Engine Off North Texas, and Regional Smoking Vehicle Program (RSVP)

Air pollution alerts

Clean Air Action Day



www.airnorthtexas.org

LOCAL INITIATIVES

Engine Off North Texas

Designed to reduce emissions by reducing vehicle idling efforts focus on:

- Enhancing awareness of regulatory options and campaign strategies organizations can use to reduce idling from various vehicle types
- Educating local governments of the State Idling Rule
 - > 25 entities have adopted Local Enforced Idling
- Educating the public on the impacts of idling
- Improving public awareness of idle-reduction technologies
- Promoting idling restrictions
 - ➤ Adoption
 - > Education
 - > Enforcement



https://www.nctcog.org/life/air-quality/for-everyone/engine-off-north-texas



LOCAL INITIATIVES

Saving Money and Reducing Truck Emissions (SMARTE)

Aims to improve awareness of freight traffic effects on air quality, promote the use of SmartWay-verified technologies, and encourage industry-specific best practices in the freight industry: **SMARTE**

- Focus on idle reduction
- Emission reduction
- Fuel saving strategies in the heavy-duty trucking industry
- Educate drivers and fleet managers through public interaction and engagement in the field to ensure large audience is reached
- SMARTE representatives provide:
 - > Informational materials on a variety of NCTCOG initiatives suitable for the trucking industry
 - Clean Fleet Policy
 - Environmental Protection Agency (EPA) SmartWay Transport Partnership
 - SmartWay-verified technologies
 - > Information on relevant funding opportunities on financial assistance with obtaining capitalintensive items

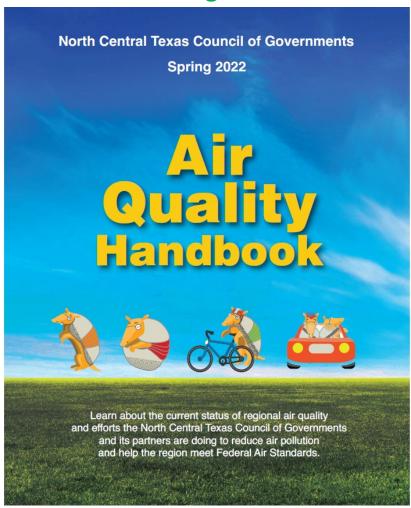
www.nctcog.org/trans/quality/air/for-fleets/smarte



AIR QUALITY HANDBOOK

English

Bilingual



Spanish





FOR MORE INFORMATION

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