

OTC Mobile Source Committee Overview

November 9, 2021 OTC Stakeholders' Webinar

Mobile Sources Committee



OZONE TRANSPORT COMMISSION

2021 Charge: Medium- and Heavy-Duty Trucks

Actions:

- The MSC sent a letter to Administrator Regan and CEQ on HD NOx rule
- The MSC provided modeling inputs used in MOVES modeling conducted by ICCT/Sonoma Technology
- Three scenarios modeled: full harmonization with CARB HD rules; ACT; low NOx
 - Two EV scenarios analyzed with different assumptions on in-state EVs
- Modeling results for OTC states presented on MSC call
- OTC/NESCAUM is conducting a health benefits assessment using EPA's Co-Benefits Risk Assessment (COBRA) model for states using ICCT MOVES modeling results

Next Steps:

- Complete MOVES3 and COBRA modeling
- Coordinate with Modeling Committee on possible BenMAP modeling

Cumulative NOx Reductions - ACT and Omnibus Adoption

ACT EV Scenario

	2020–2040	2020–2050
State	Cumulative Tons of NO _x	Cumulative Tons of NO _x
Connecticut	4,450	12,230
District of Columbia	1,100	3,010
Massachusetts	16,730	44,050
Maryland	22,780	60,620
Maine	6,550	17,650
New Jersey	28,470	77,080
Oregon	28,570	76,720
Pennsylvania	52,990	140,770
Rhode Island	3,010	8,030
Vermont	1,930	5,090

Note: Delaware and Virginia modeling is not completed

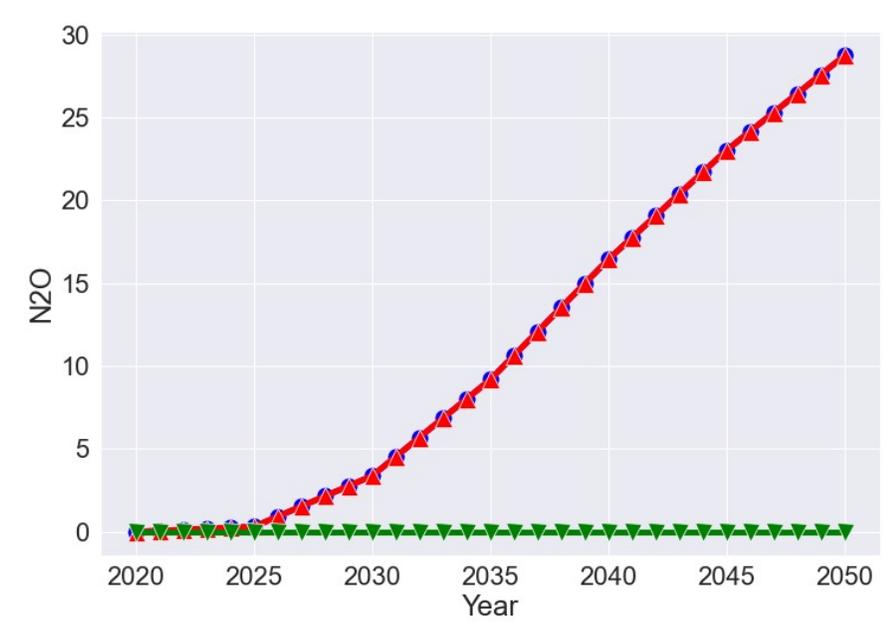
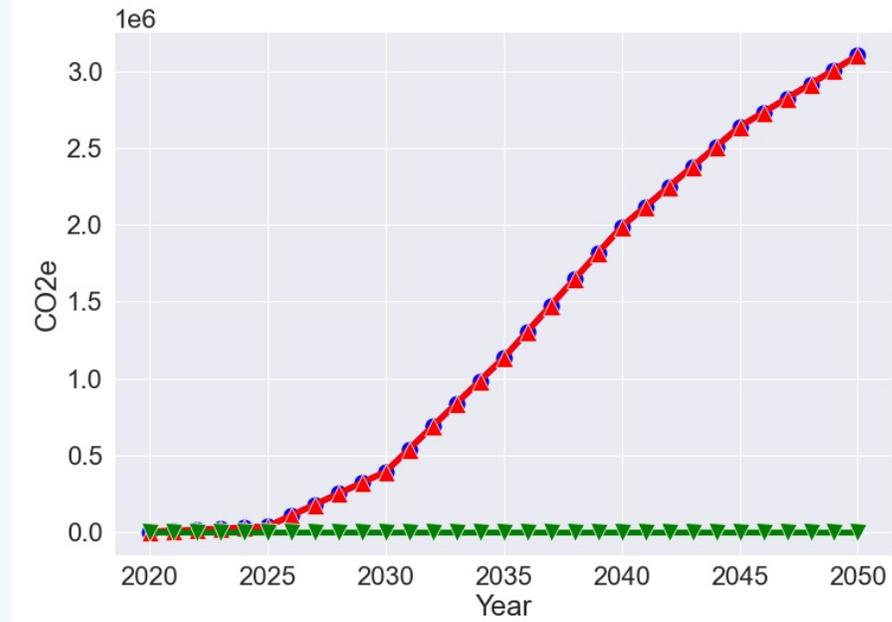
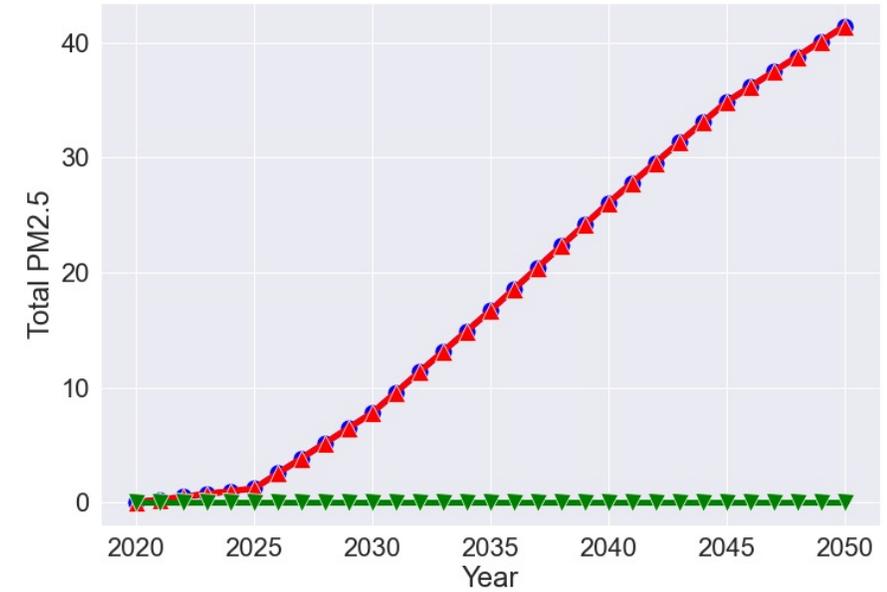
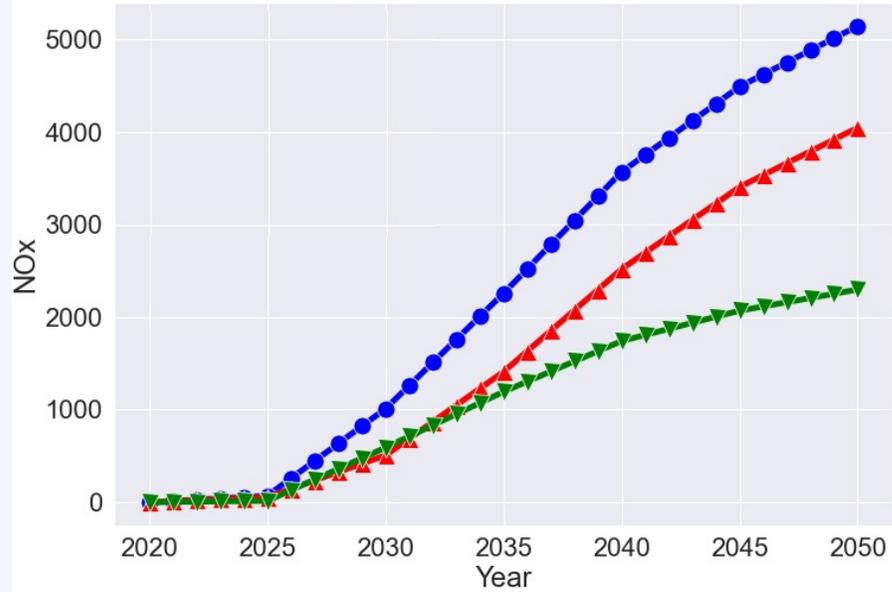
Cumulative NOx Reductions - ACT and Omnibus Adoption

All EV Scenario

	2020–2040	2020–2050
State	Cumulative Tons of NO _x	Cumulative Tons of NO _x
Connecticut	7,320	20,410
District of Columbia	1,640	4,600
Massachusetts	26,950	71,960
Maryland	36,480	99,760
Maine	10,410	28,770
New Jersey	45,220	125,380
Oregon	28,570	76,720
Pennsylvania	84,480	231,140
Rhode Island	4,740	13,080
Vermont	3,010	8,190

Example State: Annual Emission Reductions

	2 - Full Harmonization (GHG/ACT/HD Low NOx)
	3 - ACT/GHG harmonization
	4 - HD low NOx only



2021 Charge: Anti-tampering

Action:

- NJ providing tampering training to states
- ERG is developing an inspection and maintenance (I/M) white paper that will focus on tampering
 - Tampering detection
 - Training of inspectors
 - Software system information
 - Quantification approach for tampering-related emissions
- MSC workgroup on tampering formed



2021 Charge: MHD ZEV Technical Support

- MOU was signed July 14th 2020
- 16 signatories: California, Connecticut, Colorado, District of Columbia, Hawaii, Maine, Maryland, Massachusetts, New Jersey, New York, North Carolina, Oregon, Pennsylvania, Rhode Island, Vermont, Washington
- During the 2020 Charge, OTC-NESCAUM partnered with ICCT to model NO_x, PM_{2.5}, and CO₂ emissions reductions from the MHD ZEV targets
- Working with ICCT to review results and post
- Coordinating with the Modeling Committee on possible health benefits and/or air quality modeling



Tampering (Continued)

Workgroup Activities:

- Assess OTC state authority to identify and enforce against tampering
- Coordinate with EPA on its tampering policy
- Provide information to EPA on a phase-out schedule for non-complying aftermarket catalysts
- Open a dialogue with EPA on incorporating excess emissions from tampering into MOVES model
- To the extent possible, compile information on tampering rates in light-, medium-, and heavy-duty vehicles

2021 Charge: As Resources Allow

Provide technical and policy support where needed on telework, potential ozone benefits from cap and invest programs, light-duty electric vehicles, allocation of VW settlement funds, or other issues identified by the OTC Air Directors

- Telework
 - In 2020, the MSC researched telework and VMT
 - The MSC may continue this work in 2021
- Cross-committee workgroup on inventory
 - Change in MOVES model used in 2016 inventory impacted the inventory and will be a subject of discussion



Recap and Discussion

- **Heavy-duty vehicle NOx**
 - EPA NPRM on heavy-duty truck NOx expected in January.
 - OTC truck data logging (2020) and modeling and analysis will assist states in making the case for new more stringent NOx standards and is providing information for states adopting ACT and Omnibus.
- **MHD ZEV**
 - Consider best uses for ICCT modeling results in coming year.
- **Tampering**
 - White paper to be developed this year.
 - MSC will continue its dialogue with EPA on tampering issues.
- **Additional items**
 - MSC will contribute to the cross-committee workgroup on inventory.