

Mobile Source Committee Update



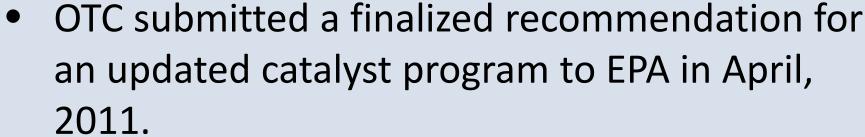
Overview

- 1. Aftermarket Catalysts
- 2. Inventory
- 3. Federal Updates
 - a) Emission Control Areas
 - b) Tier 4 Nonroad Engines
- 4. Ongoing Efforts



Aftermarket Catalyst Recommendation

- EPA's policy was set in 1986 and has not been updated to reflect improvements in technologies & emission standards.
- Tier 3 proposal did not include an updated program.
 - ommendation for to EPA in April,





Aftermarket Catalyst Model Rule

Goal: To develop an aftermarket catalytic converter model rule for OTR states to use:

- Essentially provides the language necessary for a state to pursue adoption of the California aftermarket catalyst program.
- Based on regulation implemented by New York.
- Has optional language for allowing used converters to be installed on vehicles with OBD.

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0	70	NF
_	ANG	PORT
TD		

	NO _x	NMHC	СО
Annual (tpy)	10,000	2,000	27,000
Daily (tpd)	30	6	74

Aftermarket Catalyst Model Rule

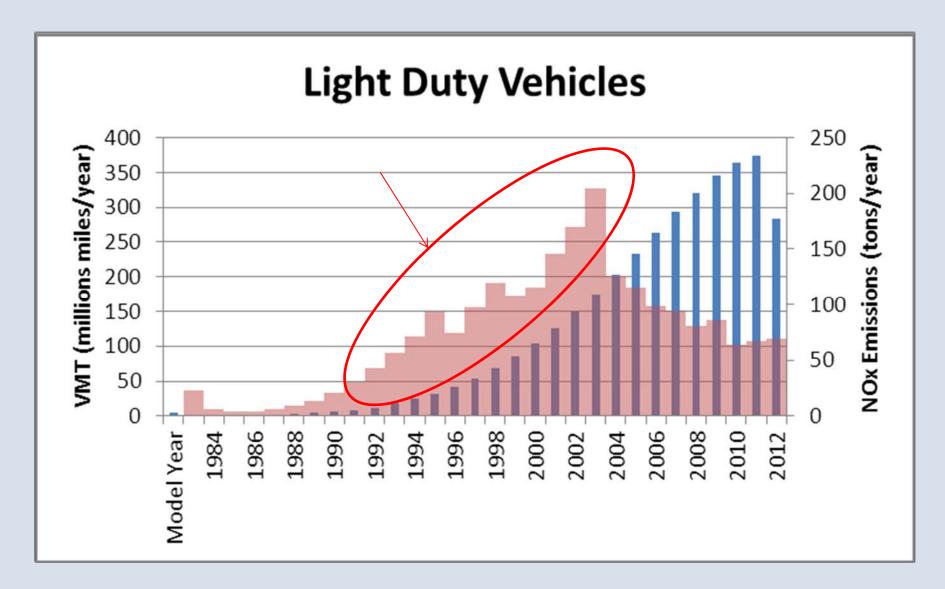
- Next Steps:
 - Solicit Stakeholder Comments Due July 15, 2013
 - The committee will finalize the Technical Support Document



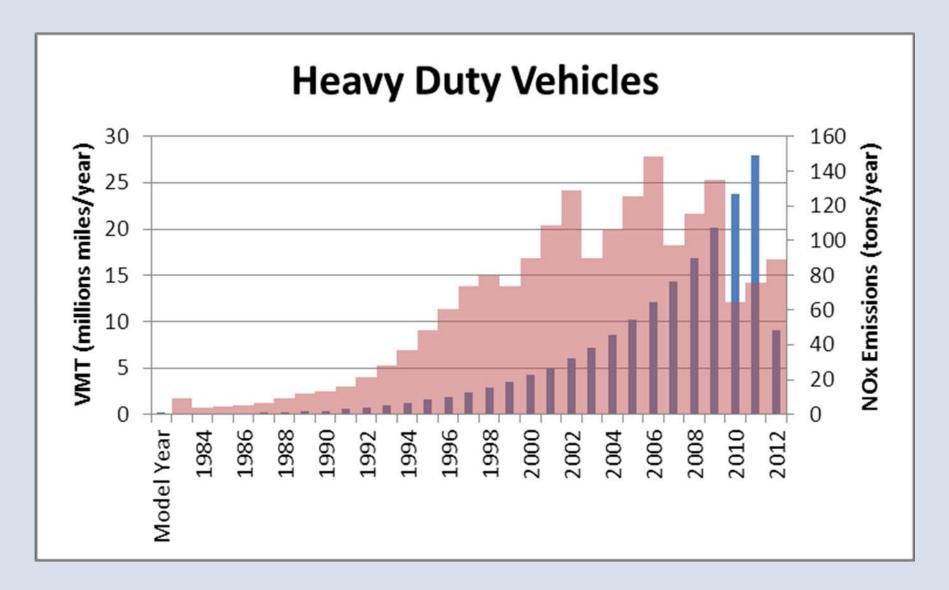
Onroad Inventory Project

- Analyzing 2007 & 2020 for a mix of suburban and urban counties
 - Baltimore City, MD
 - New Castle, DE
 - Mercer, NJ
 - Fairfield, CT
 - Suffolk, MA
- Analysis will focus on emissions from:
 - Starts vs. Running Emissions
 - VMT
 - Average Speed Distribution
 - Model Year Distribution











Emission Control Areas (ECA)

- USEPA & International Maritime Organization (IMO) Action
- NO_X and SO₂ requirements on ship near shore
 - 2015: 1000 ppm Maximum Sulfur Fuel
 - 2016: New Engine Standards Tier 3 (80% reduction)
 - 2010: Existing Engines 15-20% NO_X reductions
- Provides Significant Air Quality Benefits in the OTR and throughout the Nation.



Current Issues with ECA

- The Russian Federation is challenging the finding of the market availability of emission control technologies for affected ship;
 - Recommends a five (5) year delay
- U.S. EPA and Coast Guard are pushing back
- Decision will be made March 2014
- Ozone reductions in coastal areas of up to 2ppb in 2020 are at risk



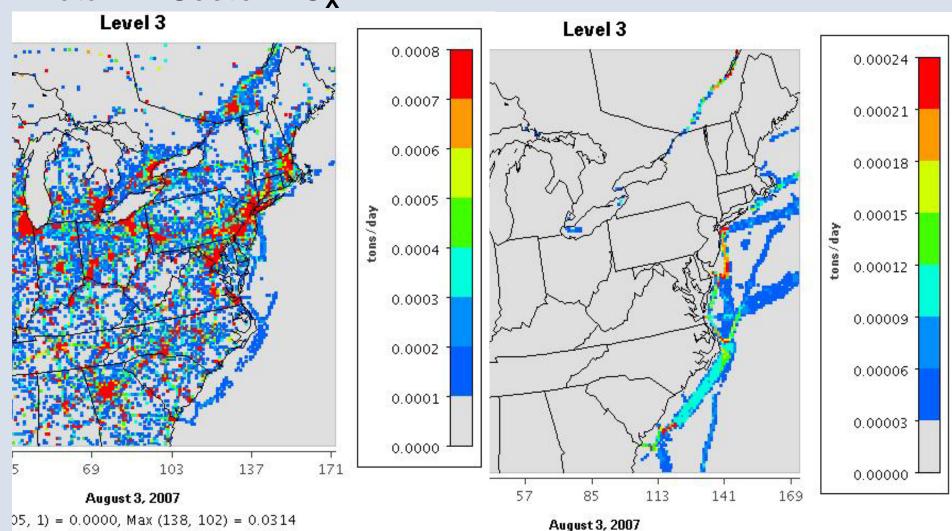
NOx Emissions

August 3, 2007

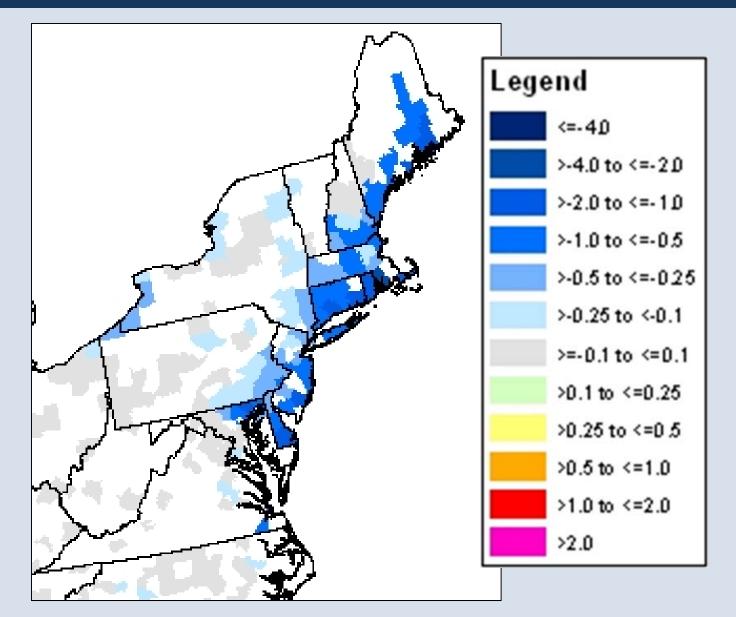
Total All Sector NO_x

Category 3 Marine NO_X

11 = 0.00000 May / 120.001 = 0.00054

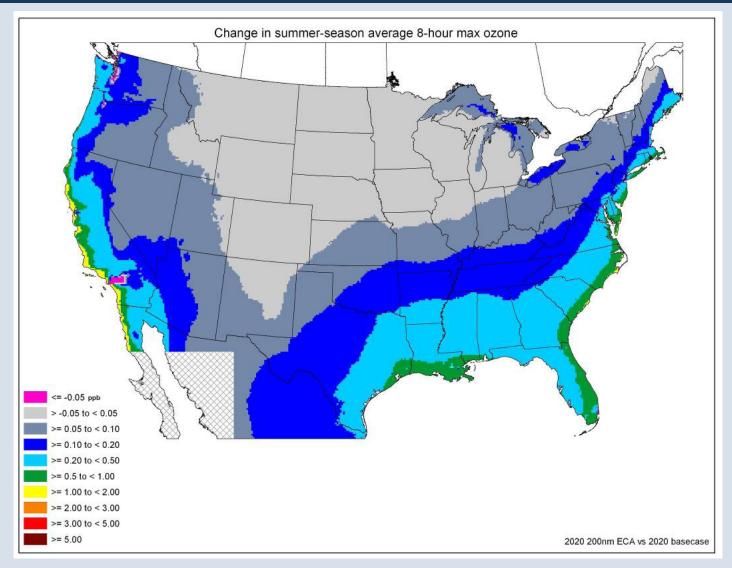


Emission Control Area - Ozone Benefits in 2020





Improvement in Summertime Average 8-hour Average Ozone Concentrations in 2020 Resulting from the Proposed Emission Control Area





Tier 4 Nonroad Engines

- EPA rules require that replacement engines be of the highest Tier available (Tier 4 currently)
- Issue: T4 engines do not always fit into older engine compartments, thus limiting opportunities for repowering
- EPA proposed a rule and issued a direct final rule on May 9, 2013 to enabling the use of lower Tier engines



Summary of the Next Steps

- Aftermarket Catalytic Converters Update technical support document with cost information
- Other Topics
 - Heavy Duty Diesel I/M
 - Continue collaboration with the USEPA on data needs and associated work plan
 - Emissions Inventory Analysis w/ 2020 MOVES
 - Goods Movement
 - Additional Transportation Strategies

