

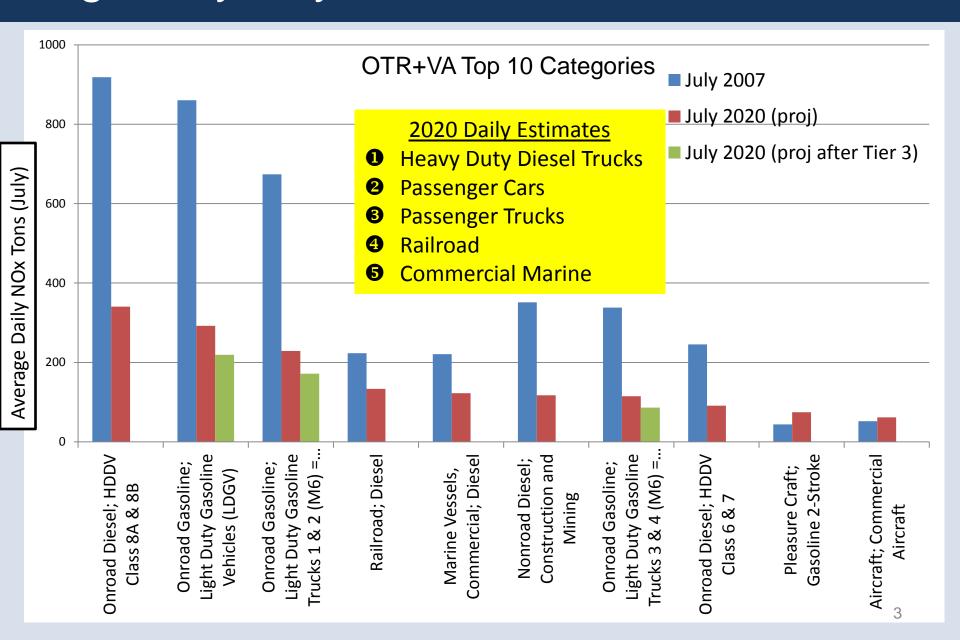
## Mobile Source Committee Update



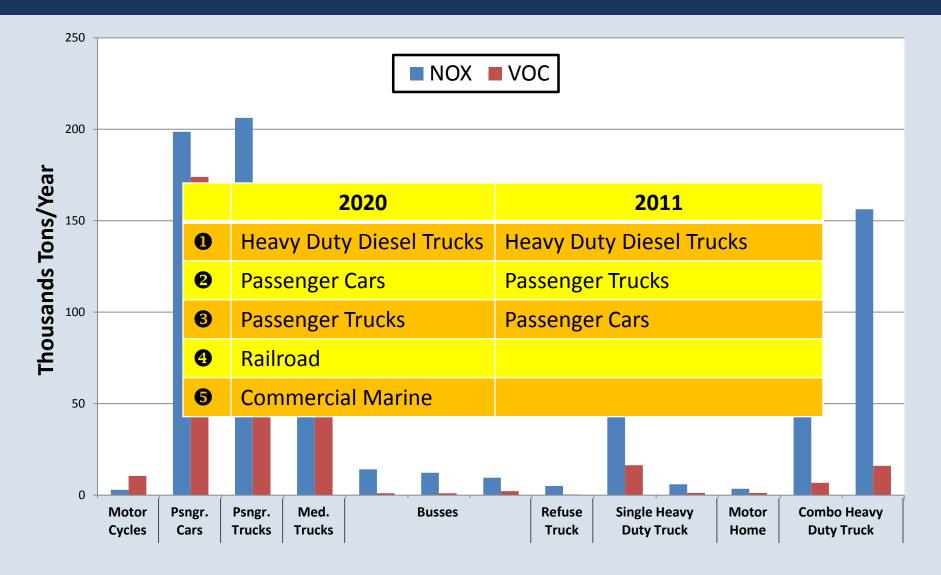
#### Committee Charge

- Goal: To identify potential strategies for consideration at the 2015 Fall Meeting
- Strategies Include:
  - Sectors of High Emission Reduction Potential
    - Heavy Duty Diesel Trucks
    - Passenger Vehicles
    - Movement of Goods
    - Construction Equipment
    - Pleasure Craft
  - Ports & Petroleum Transfer Activities
  - Diesel I/M & SIP Credit
  - VMT Strategies
  - Additional Transportation Strategies

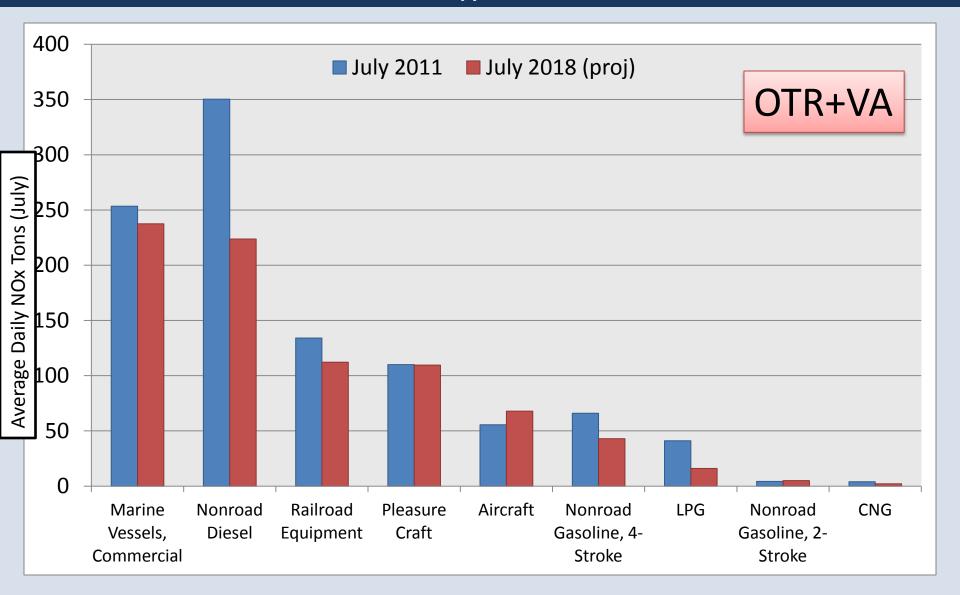
#### Avg. Daily July NOx Tons – Old Inventories



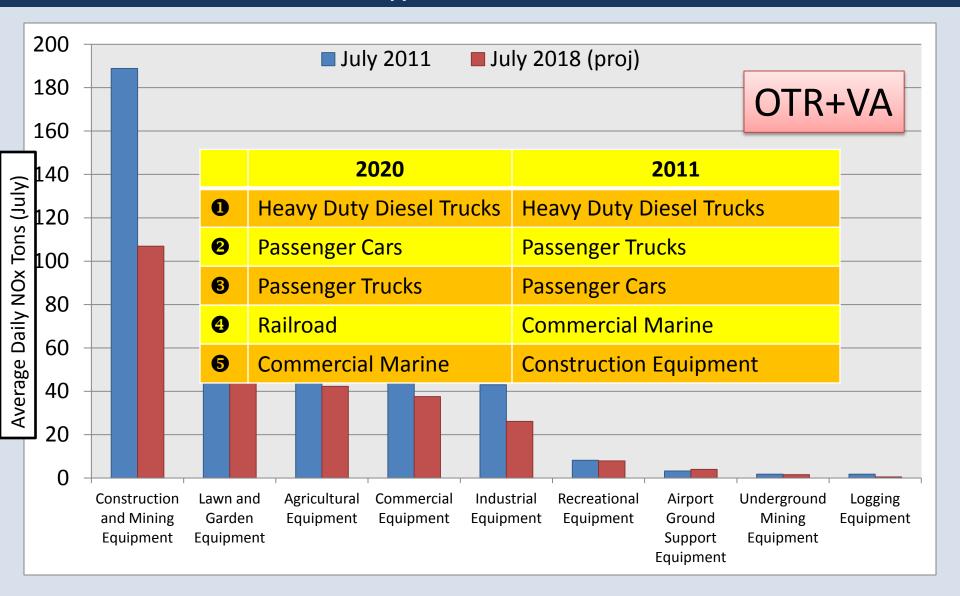
#### OTR+VA Onroad Mobile Inventory 2011 - Approximated



### Nonroad Diesel NO<sub>x</sub> July Avg. Daily Tons



### Nonroad NO<sub>x</sub> July Avg. Daily Tons



### Aftermarket Converters Analysis

Workgroup has developed a methodology to incorporate CARB converters into MOVES

#### **Current Status:**

National MOVES runs for 2020 to confirm methodology

#### **Next Steps**

- Confirm methodology through model runs
- Reach out to EPA
- Conduct OTR specific MOVES runs

### Anti-Idling: Draft Survey of Regulations

Idling Allowable Time Lim it by State (excluding exemptions)

	СТ	DE	DC	ME	MD	MA	NH	NJ	NY	PA	RI	VT	VA
Diesel Trucks	3	3	3	5	5	5	5	3	5	5	5	5	3
Nonroad Diesel	3		3					3			5		
Other	MA and RI also have Rail idling limits												

- Enforcement Approaches:
  - Periodic Sweeps (NJ)
  - Mapping High Idling Zones (DC)

- Education Approaches
  - Pamphlets/Posters (NJ, PA)
  - Tollbooth Wraps (PA)
  - Websites (DC, NJ, PA, RI)
  - No Idling Pledge (NJ)
  - Fake Idling Tickets (NJ)
  - School Outreach (DE, NJ)

Next Step: Complete the survey to inform state's approaches to anti-idling



#### EPA SmartWay® Transport Partnership

Collaboration between government & business



Promote susta Reduce econo goods movem

Freight Shippers

Carriers

Logistics Companies

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#### SmartWay® Approach

- EPA provides consistent objective, market-driven tools, approaches and incentives to help businesses to benchmark, track and reduce fuel consumption from supply chain
- Partners save money, cut emissions and achieve recognition

#### Win for business - Win for the environment



#### SmartWay® Components

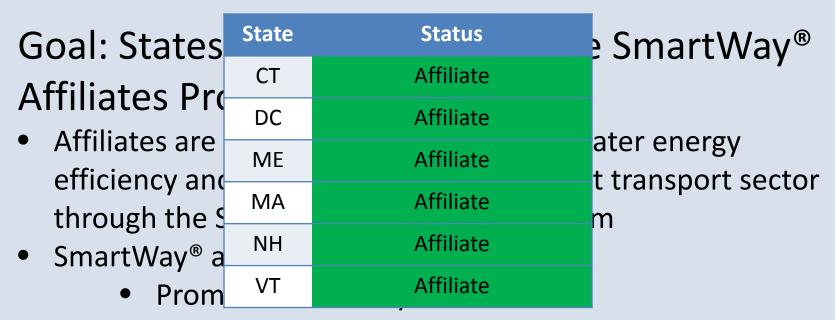
**SmartWay Transport Partnership:** A partnership in which freight carriers and shippers commit to benchmark operations, track fuel consumption and improve performance annually.

**SmartWay Technology Program:** A testing, verification, and designation program to help freight companies identify equipment, technologies and strategies that save fuel and lower emissions.

**SmartWay Vehicles:** A <u>program</u> that ranks light-duty cars and small trucks and identifies superior environmental performers with the SmartWay logo.

**SmartWay International Interests**: Guidance and resources for countries seeking to develop freight sustainability programs modeled after SmartWay.

### SmartWay® Affiliates Program



- Educate their members about the program and its benefits
- Train members on best practices related to SmartWay® and supply chain efficiency



#### Charge for MSTRS Ports Workgroup

#### EPA asked MSTRS for recommendations on:

- Development of an EPA-led voluntary environmental port initiative
- How to effectively measure air quality and GHG performance of ports and/or terminals within ports

#### MSTRS will consider:

- EPA port macro & micro assessments
- Existing port environmental improvement programs
- Ports in the context of broader supply chain

### MSTRS Port Workgroup Timeline

- Develop draft recommendation at MSTRS Port Workgroup Meeting – Oct 2015
- 2. Present draft recommendation to MSTRS Dec 2015
- 3. Final recommendation Spring 2016



### Medium & Heavy-Duty GHG Proposal

June of 2015 EPA proposed new GHG gas standards for Medium & Heavy-Duty Diesel Trucks

#### OTC focus on $NO_x$ in the proposal:

- No NO<sub>x</sub> standards in the rule
- NO<sub>X</sub> Co-benefits from RIA (depends on scenario)
  - ~7% reduction by 2025
  - ~26% reduction by 2035
- Concerns about APU penetration estimates

# Sensitivity Analysis for Additional Emission Reductions

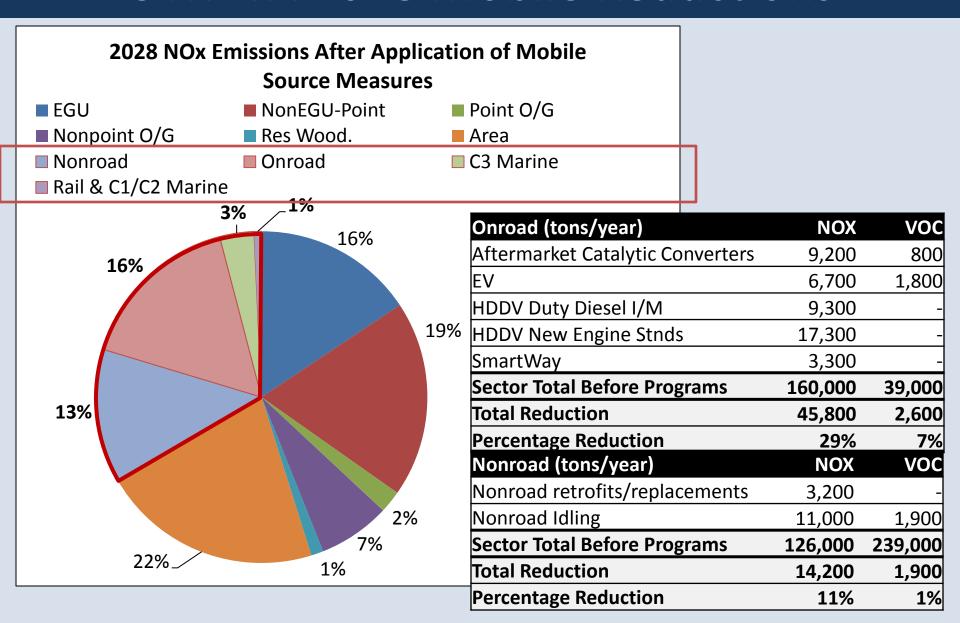
Measures Applied in Modeling Domain	Measures Applied in the OTR
<ul> <li>Aftermarket Replacement         Catalytic Converters</li> <li>90% Reduction in new         onroad HD Engines         beginning in MY2020</li> <li>SmartWay®</li> <li>Nonroad         Retrofits/Replacements</li> </ul>	<ul> <li>ZEV MOU Implementation</li> <li>Heavy Duty Diesel I/M</li> <li>Nonroad Idling</li> </ul>

2028 - Enable time for fleet turnover

Does not include Beyond OTW SAS measures from EPA

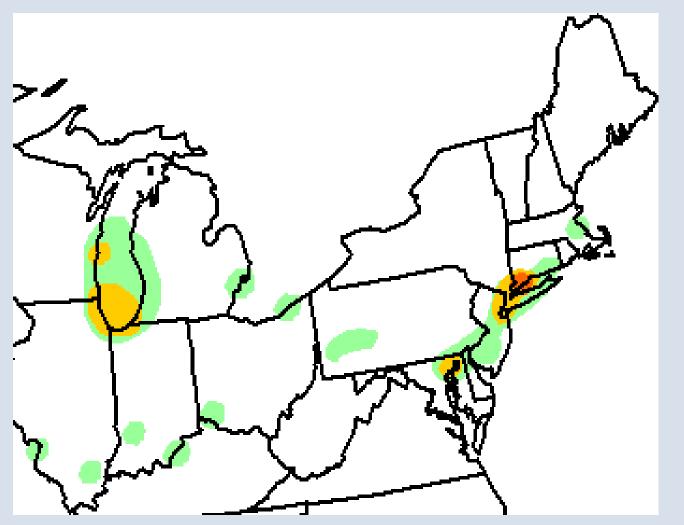
Ozone NAAQS RIA

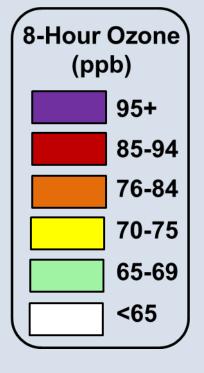
#### OTR+VA 2028 Mobile Reductions



#### 2028 Proxy with Mobile Measures

Does not include Beyond OTW SAS measures from EPA Ozone NAAQS RIA





MARAMA Alpha emission inventories with noted marine vessel emission inventory issue

#### **Next Steps**

- 1. Complete identification of top emitting categories
- 2. Continue efforts on aftermarket converters
- 3. Complete anti-idling compilation
- 4. Follow efforts on emissions from new heavyduty engines
- 5. Continue SmartWay efforts
  - 1. State Participation
  - 2. Benefit Estimates