

OTC Stakeholder Meeting

April 23rd, 2015
Washington, DC

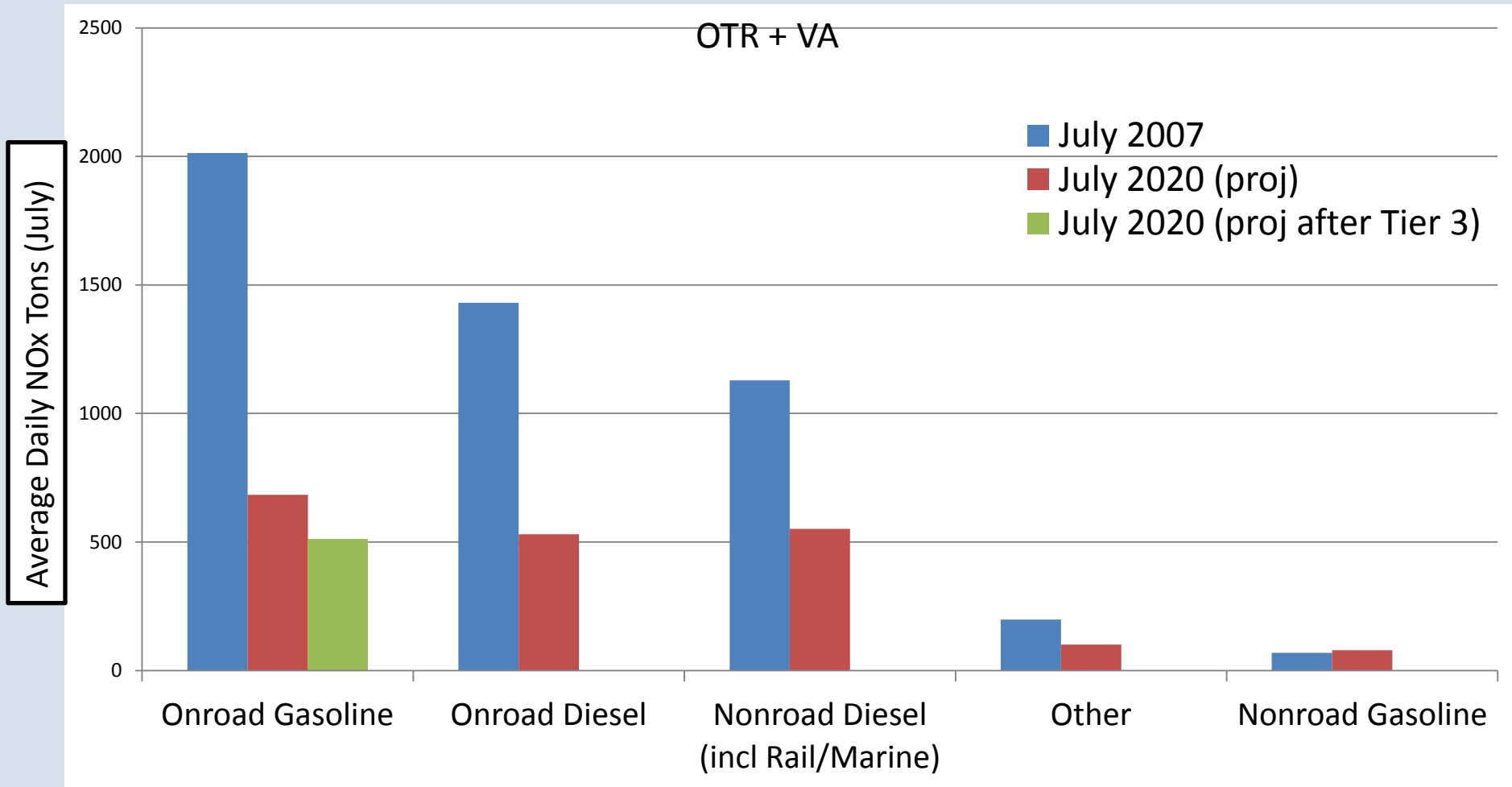
Mobile Source Committee Update



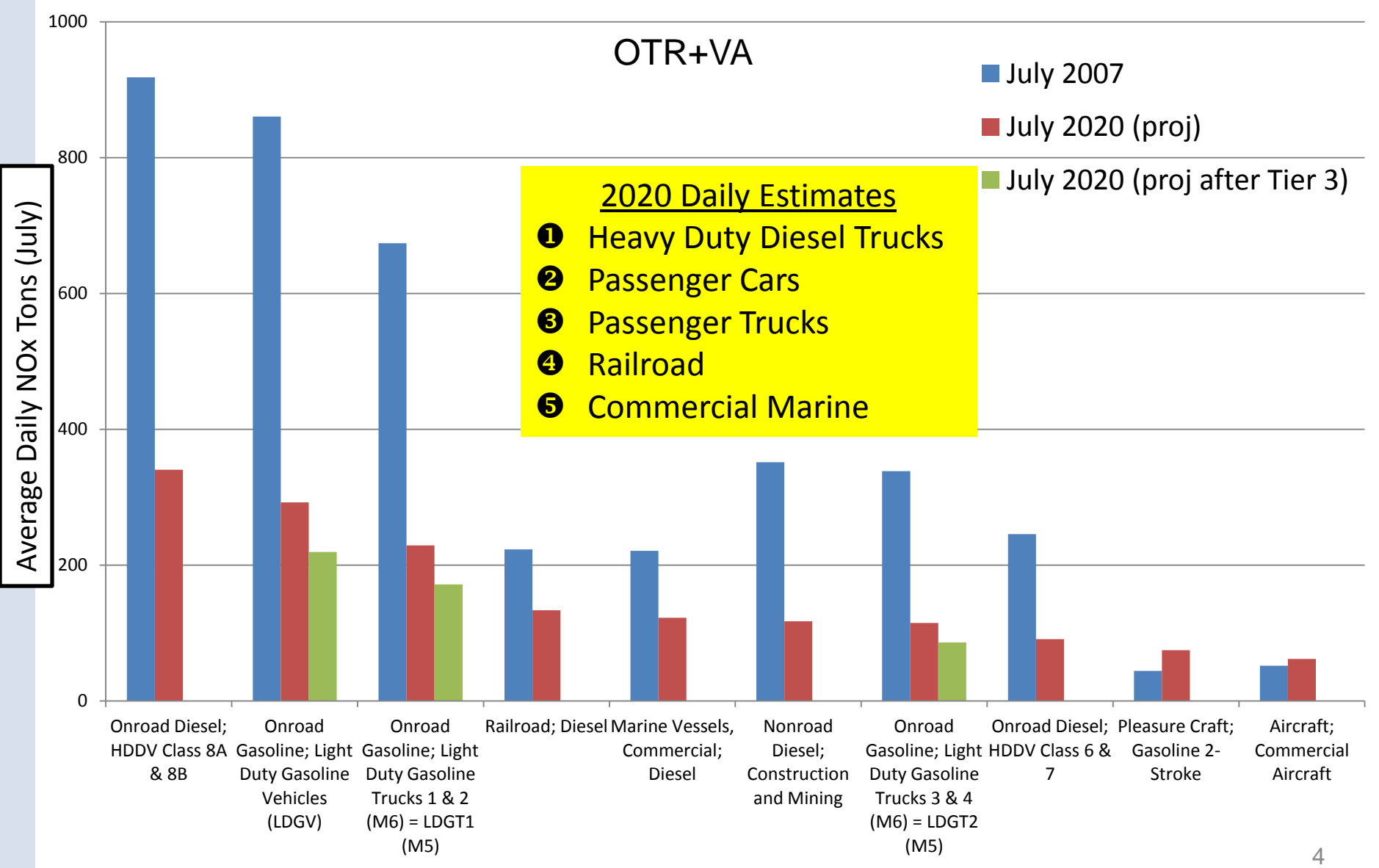
Committee Charge

- 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

Average Daily July NOx Emissions



Average Daily July NOx Emissions



Port Strategies

Examining Successful Strategies at Ports in the OTR in reducing NOx

Examined Ports of New York/New Jersey, Baltimore, Boston, Philadelphia, Hampton Roads, and Ports of Connecticut

Focus on:

- Electrification
- Vessel Speed Reduction
- Vehicle/Engine Replacements

Seeking Input from Ports

Petroleum Transfer Activities

Workgroup looked into a variety of mechanisms for petroleum transfers (e.g. truck to train, ship to ship).

Workgroup found:

- That most of the activities that were occurring were regulated

– Draft –

Petroleum Transfer Operations

Transfer Between	CT	DE	DC	ME	MD	MA	NH	NJ	NY	PA	RI	VT	VA
Truck & Train	✓	✓				✗		✓		✓	✓		
Truck & Storage Tank	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Train & Storage Tank	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓
Truck & Ship	✓	✓			✓	✓		✓		✓	✓		
Train & Ship	✓	✓			✓	✓		✓		✓	✓		
Ship & Ship		✓		✓	✓	✗			✗	✓	✓		
Storage Tank & Ship	✓	✓				✓	✓	✓	✓	✓	✓		✓



Occurring

Not Occurring



Regulated



Not Regulated



EPA SmartWay[®] Transport Partnership

Collaboration between government & business



Promote sustainable
Reduce economic
goods movement

- Freight Shippers
- Carriers
- Logistics Companies

supply chain
operational costs of





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 [program](#) 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

Goal: States in the OTR to join the SmartWay® Affiliates Program

- Affiliates are committed to promoting greater energy efficiency and air quality within the freight transport sector through the SmartWay® Transport program
- SmartWay® affiliates:
 - Promote SmartWay®
 - Educate their members about the program and its benefits
 - Train members on best practices related to SmartWay® and supply chain efficiency

2028 Mobile Reductions

Workgroup calculated emission estimates for several programs in 2028

- CA Aftermarket Converters
- ZEV MOU Implementation
- 90% Reduction in HD Emissions in MY2020
- Heavy Duty Diesel I/M
- SmartWay[®]
- Nonroad Retrofits/Replacements
- Nonroad Idling

OTR+VA 2028 Mobile Reductions

Reductions estimated for the suite of OTC programs
 Mobile Emissions are estimated to be 20% of Total NOx and 25% of Total VOC in 2028

Onroad (tons/year)	NOX	VOC
Aftermarket Catalytic Converters	9,200	830
EV	6,700	1,800
Heavy Duty Diesel I/M	9,300	-
Heavy Duty Diesel New Engine Stnds	17,300	-
SmartWay	3,300	-
Sector Total Before Programs	160,000	39,000
Total Reduction	46,000	2,600
Percentage Reduction	29%	7%

Nonroad (tons/year)	NOX	VOC
Nonroad retrofits & replacements	3,200	-
Nonroad Idling	11,000	1,900
Sector Total Before Programs	126,000	239,000
Total Reduction	14,000	1,900
Percentage Reduction	11%	1%

20% Reduction in Mobile Source NOx in 2028

Stay Tuned

- Petroleum Transfer Activities
 - **Seeking comment on Matrix by 5/11**
- More on Ports
- Diesel Inspection/Maintenance SIP Credit
 - Evaluating EPA Policy / Guidance on Voluntary Credit
- Vehicle Miles Traveled Strategies