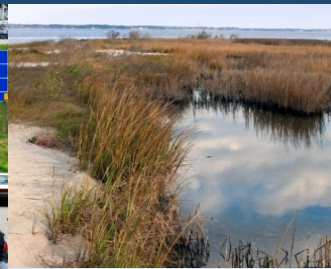


# OTC Fall Meeting

November 5<sup>th</sup>, 2015

Baltimore, MD

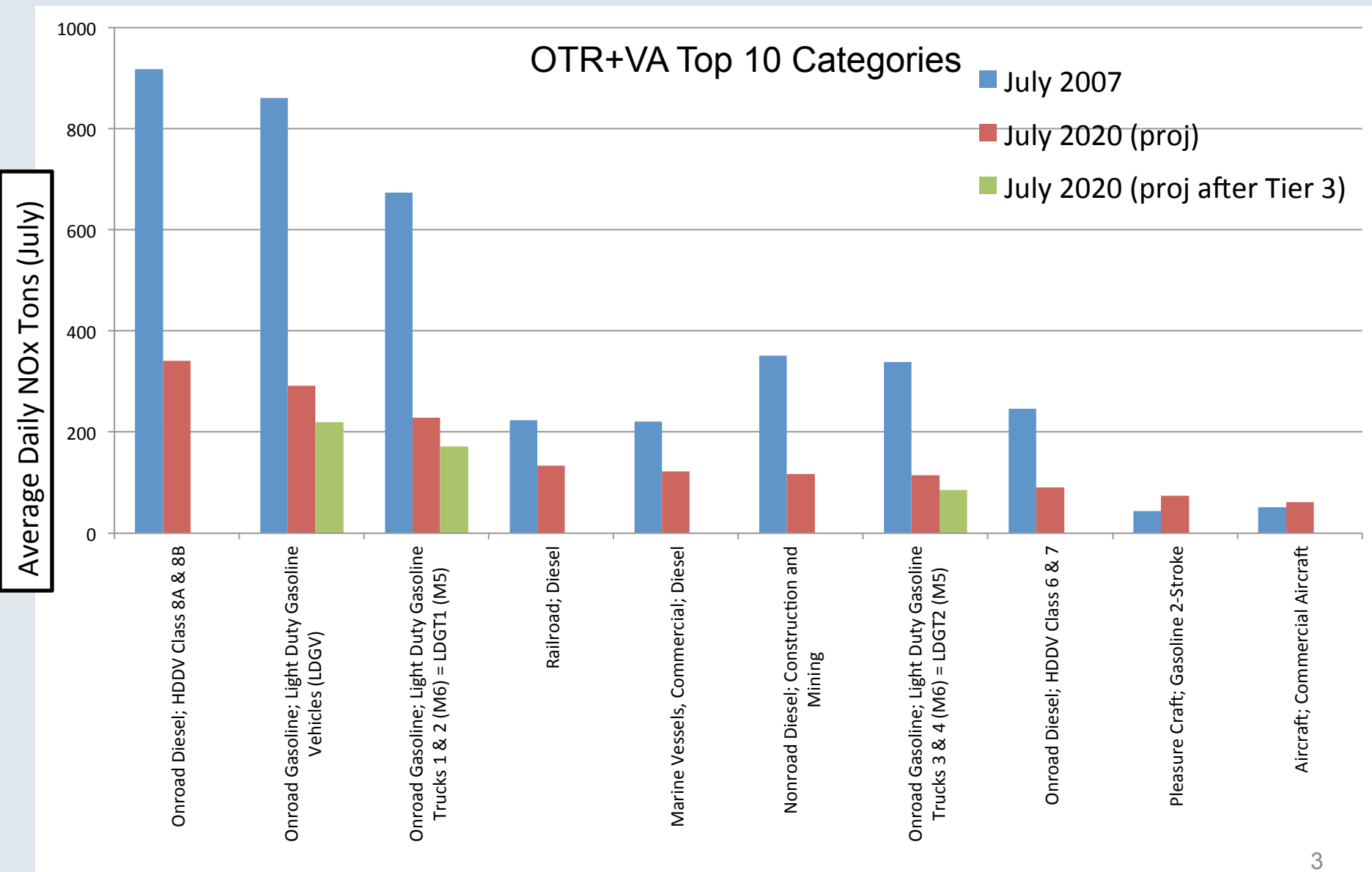
## Mobile Source Committee Update



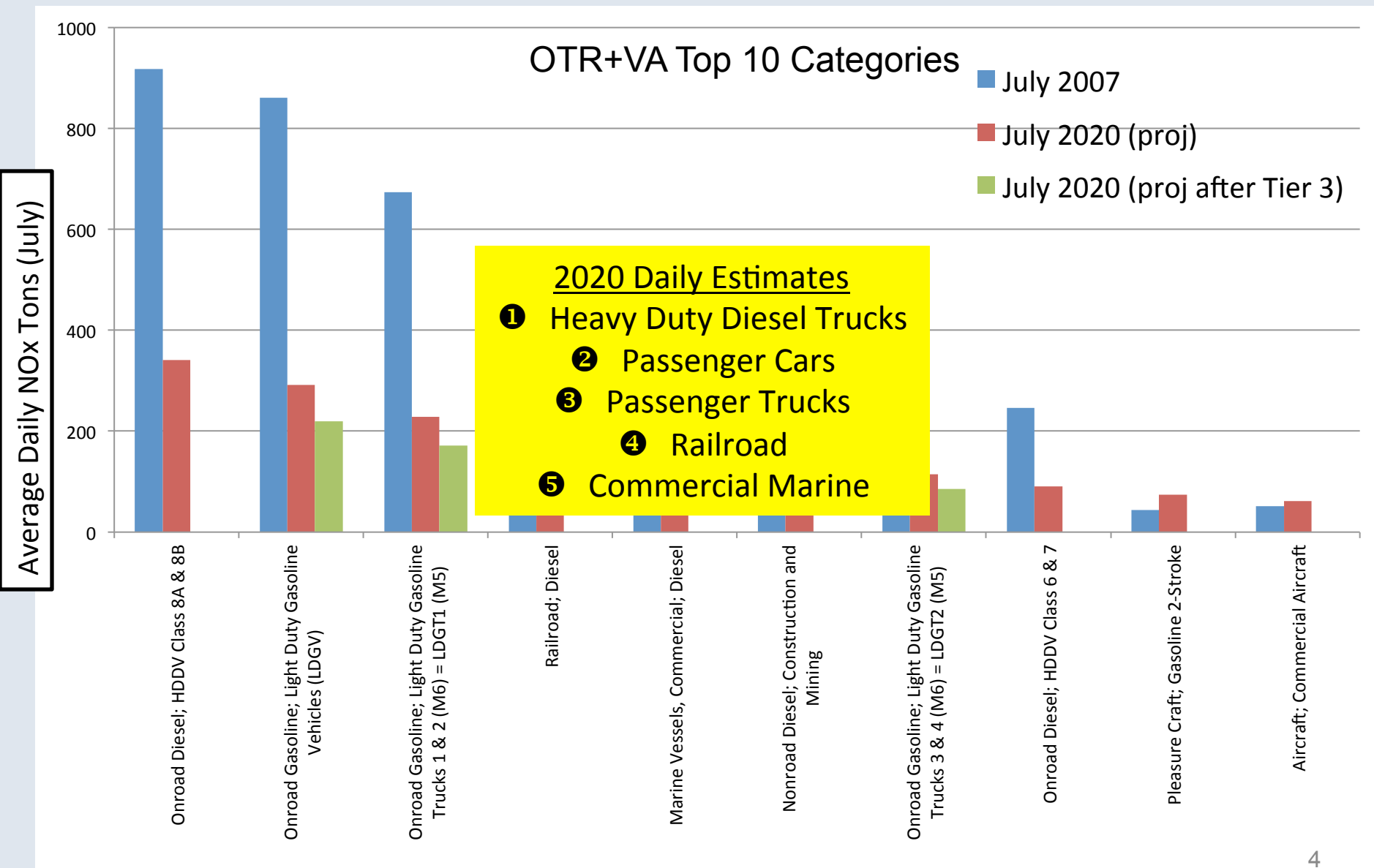
# Committee Charge

- 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

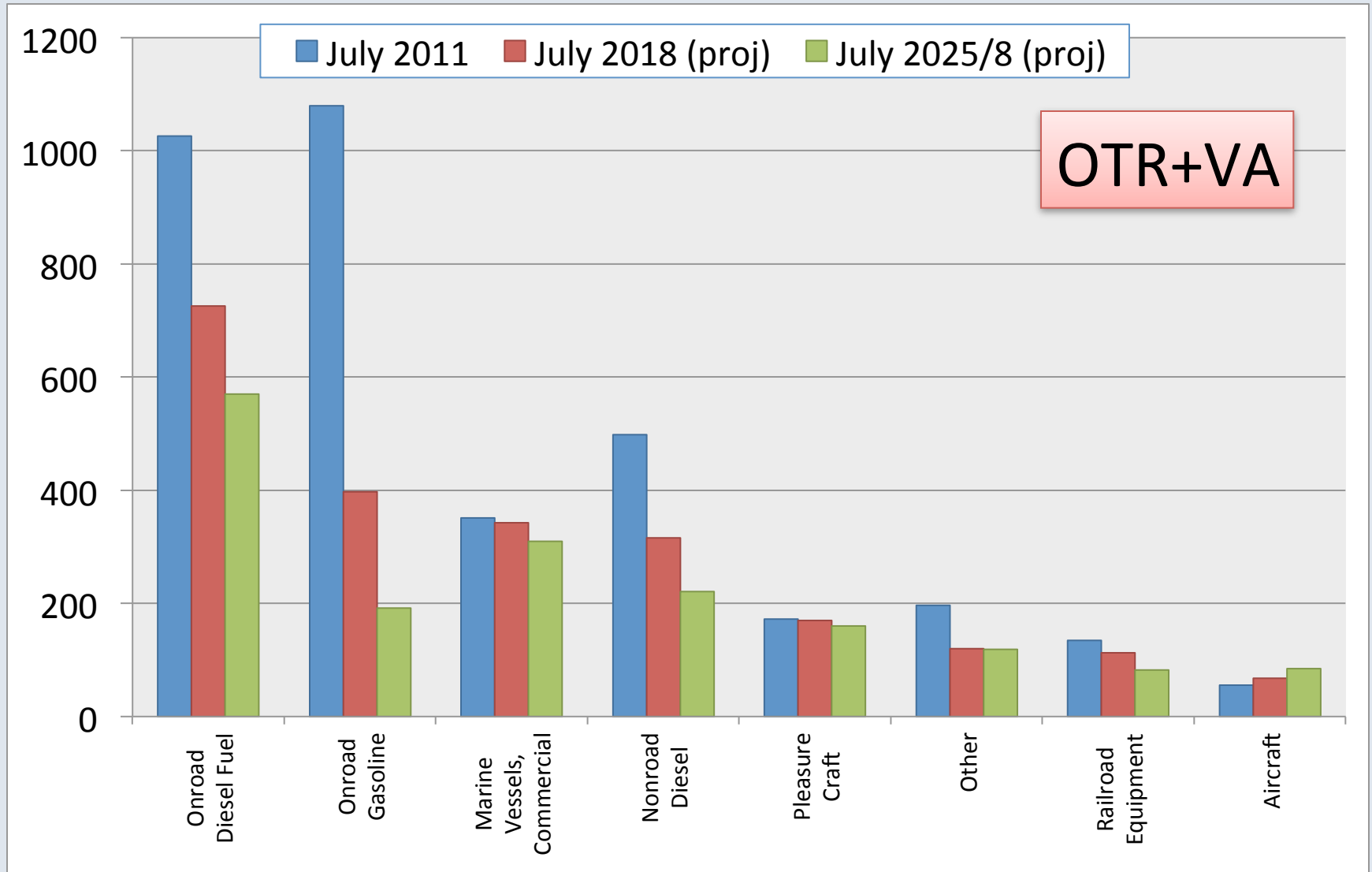
# Avg. Daily July NOx Tons – Old Inventories



# Avg. Daily July NOx Tons – Old Inventories



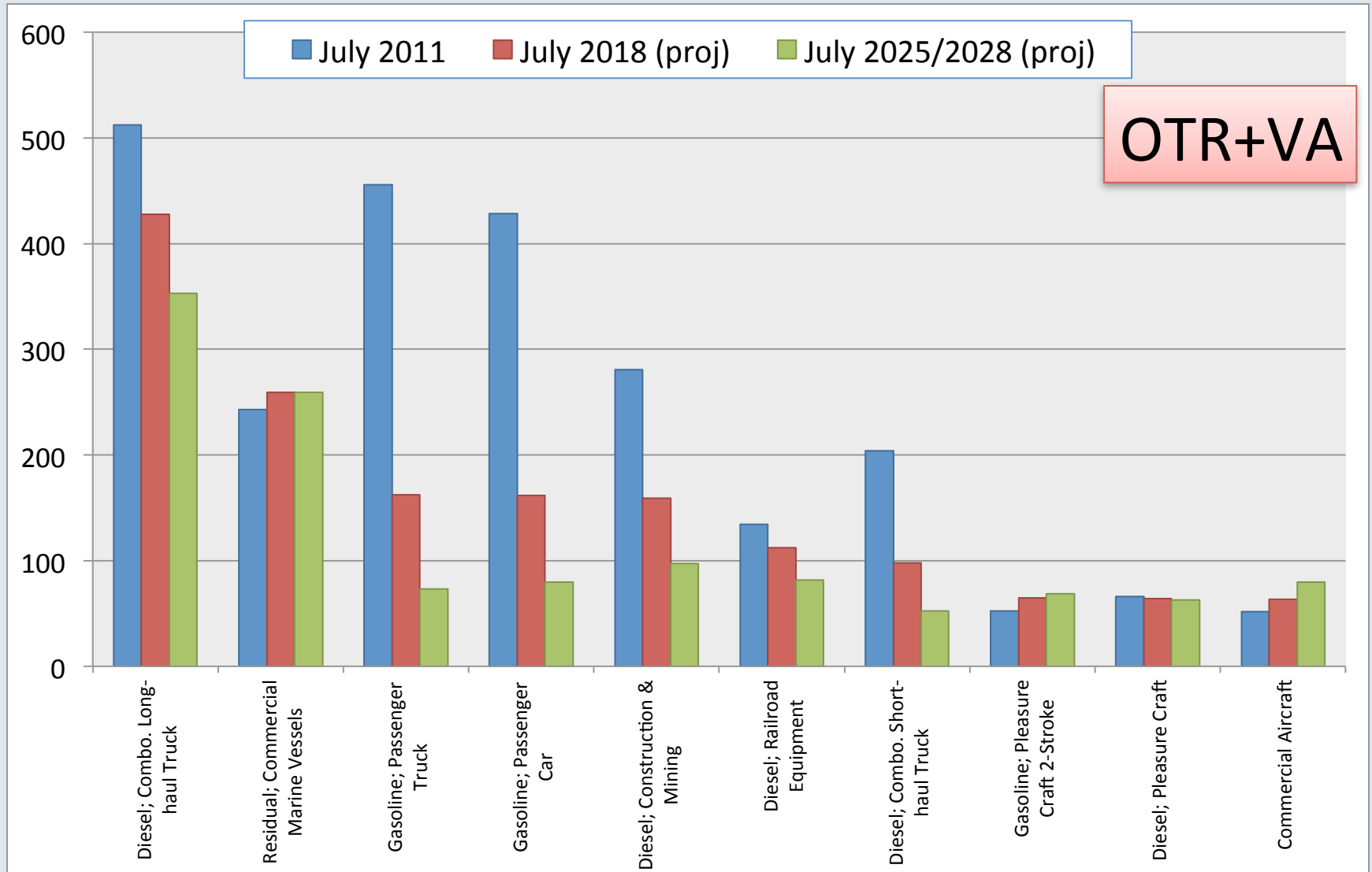
# NO<sub>x</sub> July Avg. Daily Tons (by 2018)



MARAMA Alpha Inventory based on EPA v2 NEI

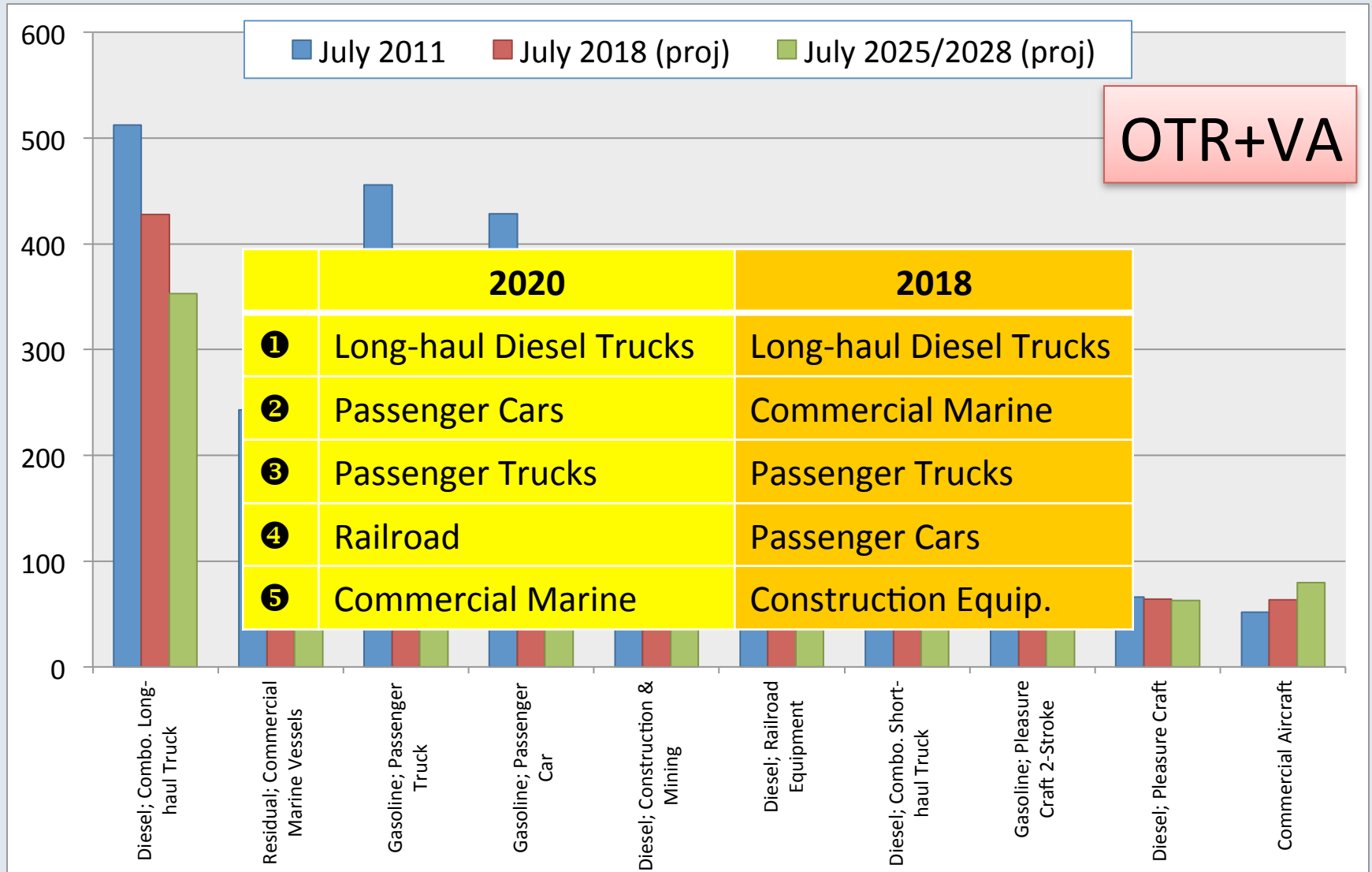
# NO<sub>x</sub> July Avg. Daily Tons (Top 10 by 2018)

Average Daily NO<sub>x</sub> Tons (July)



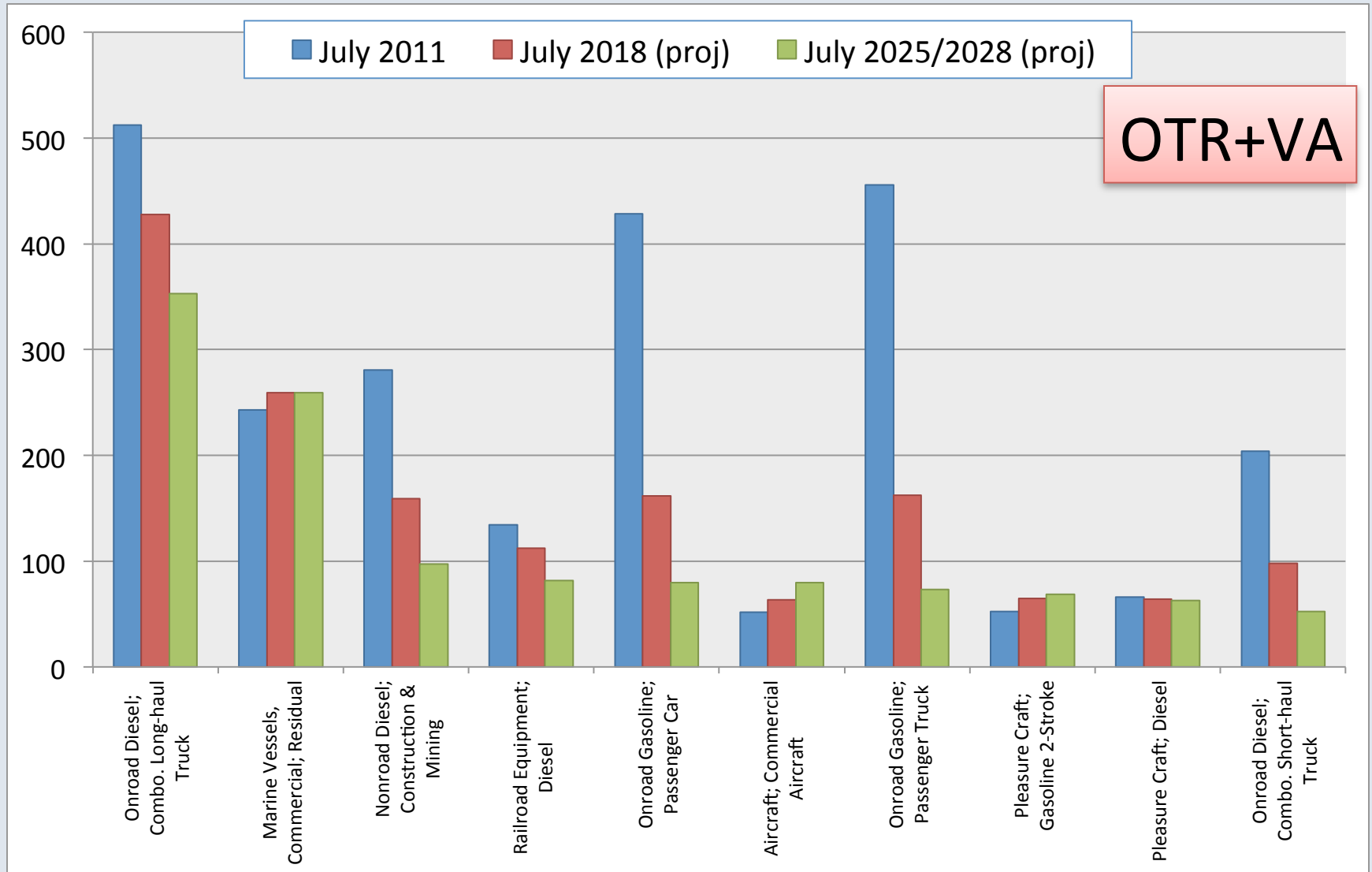
OTR+VA

# NO<sub>x</sub> July Avg. Daily Tons (Top 10 by 2018)



MARAMA Alpha Inventory based on EPA v2 NEI

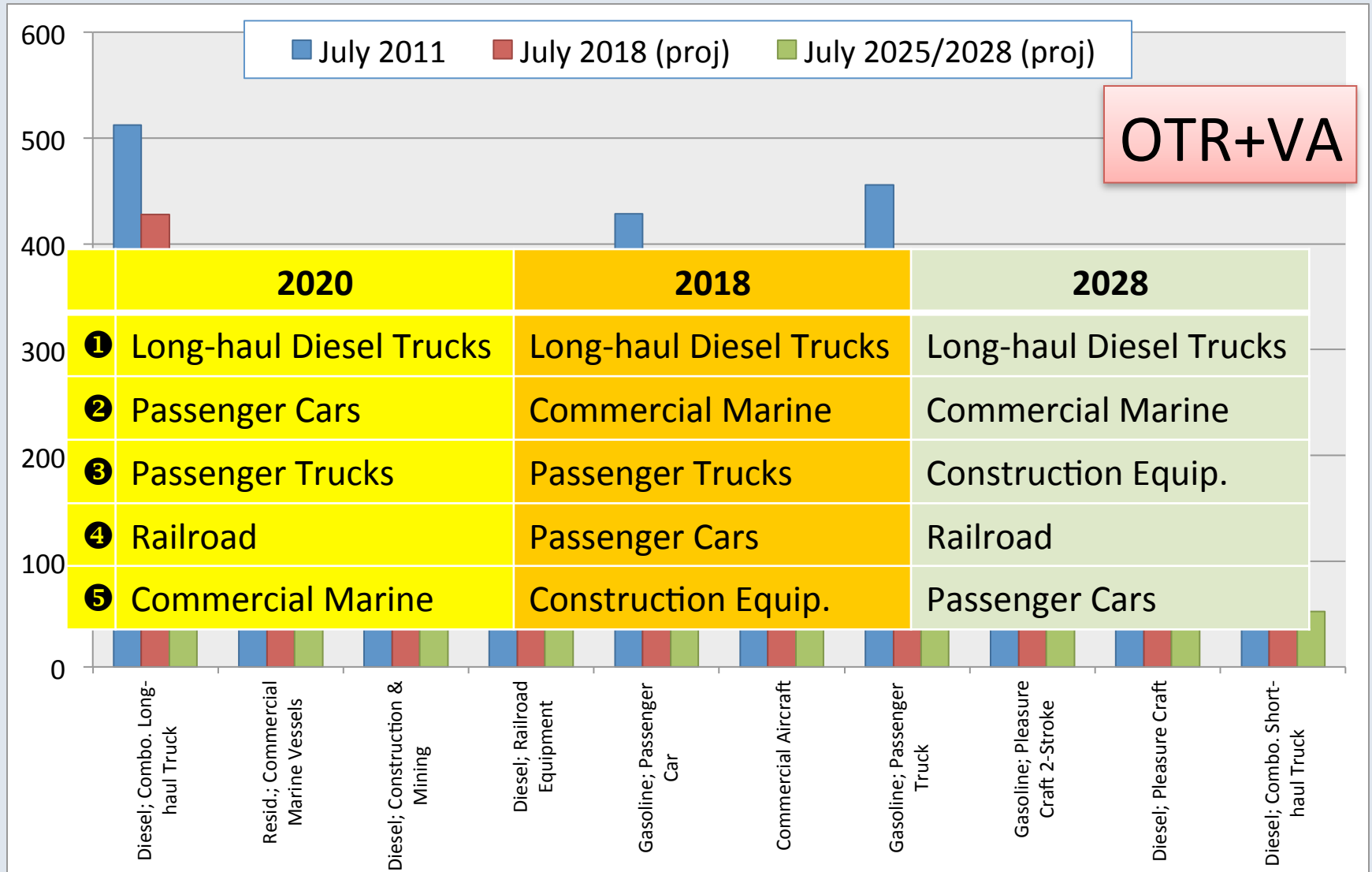
# NO<sub>x</sub> July Avg. Daily Tons (Top 10 by 2028)



MARAMA Alpha Inventory based on EPA v2 NEI



# NO<sub>x</sub> July Avg. Daily Tons (Top 10 by 2028)



MARAMA Alpha Inventory based on EPA v2 NEI

# Aftermarket Converters Analysis

Workgroup has developed a methodology to incorporate a CARB converter program into MOVES

## Current Status:

- Ran MOVES using default inputs for 2020 to confirm methodology
- Preliminary results show 24-39 ton/day NO<sub>x</sub> reduction in 2020 in the OTR

## Next Steps

- Reach out to EPA
- Confirm methodology through model runs with OTR specific inputs

# Anti-Idling: Draft Survey of Regulations

Idling Allowable Time Limit by State (excluding exemptions)

	CT	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		5			3			5		
Other	MA and RI also have Rail idling limits												

- Enforcement Approaches:

- Periodic Sweeps (NJ, NY)
- Mapping High Idling Zones (DC)

- Education Approaches

- Children's Book (CT)
- Pamphlets/Posters (CT, NJ, PA)
- Tollbooth Wraps (PA)
- Websites (CT, DC, NJ, PA, RI, VT)
- "Mythbusters" Video (CT)
- No Idling Pledge (NJ)
- Fake Idling Tickets (CT, NJ)
- School Outreach (CT, DE, NJ)

Next Step: Develop "Best Practices"



# EPA SmartWay<sup>®</sup> Transport Partnership

Collaboration between  
government & business



Promote sustainable goods movement in supply chain  
Reduce economic, energy and environmental costs of  
goods movement





# EPA SmartWay® Transport Partnership

Collaboration between  
government & business



Promote sustainable  
Reduce economic  
goods movement

- Freight Shippers
- Carriers
- Logistics Companies

supply chain  
total costs of



# 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



Goal 1: States in the OTR to join the SmartWay® Affiliates Program

Goal 2: Work with EPA to obtain SIP credit for affiliates

# SmartWay® Affiliates Program

Affiliates are committed to promoting greater energy efficiency and a more efficient transport sector through the SmartWay® program

SmartWay® affiliates

- Promote SmartWay
- Educate the public about the program
- Train men and women in energy and supply chain efficiency

State	Status
CT	Affiliate
DC	Affiliate
ME	Affiliate
MD	Affiliate
MA	Affiliate
NH	Affiliate
PA	Affiliate
VT	Affiliate



ed to SmartWay®

Goal 1: States in the OTR to join the SmartWay® Affiliates Program

Goal 2: Work with EPA to obtain SIP credit for affiliates

# SmartWay® Excellence Awardees

## Honors Top Partners

- Shipping and logistics companies for superior environmental performance
- Truck, barge, and multi-modal carriers that are setting efficiency benchmarks

## 3 OTR based companies were honored this year

- Armada (PA)
- Canon USA (NY)
- Gorton's (MA)



<http://www3.epa.gov/smartway/about/sw-awards-1.htm>



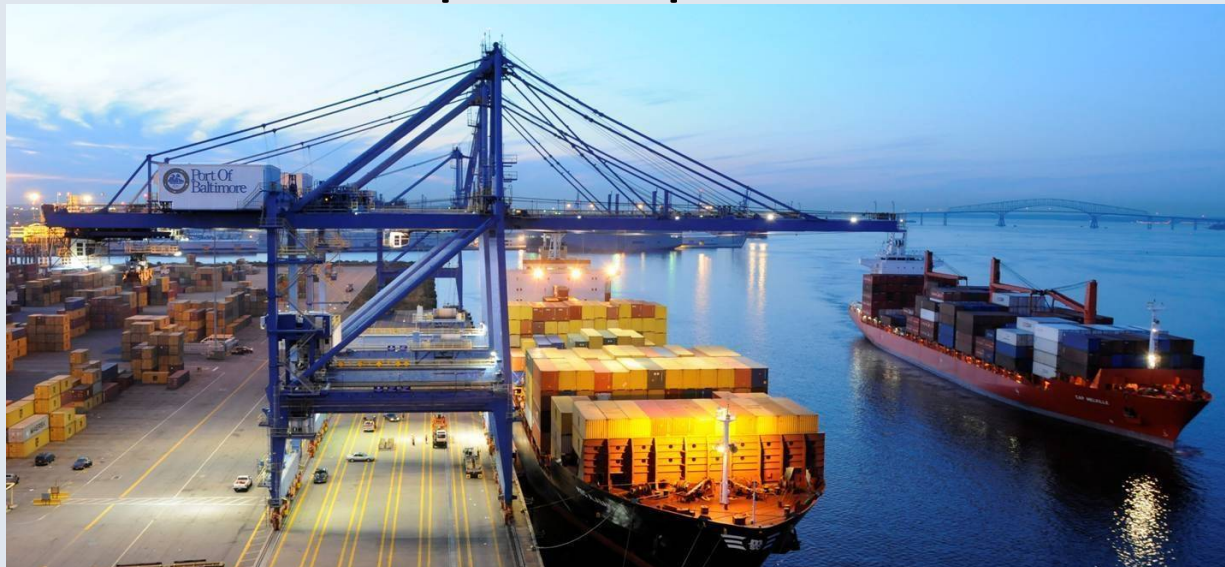
# Maritime Ports

EPA asked MSTRS Port Workgroup for recommendations on:

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

Final recommendation Spring 2016

MSC will use the recommendations as an important tool in further OTC specific ports work



# Heavy-duty NO<sub>x</sub> Updates

## Low NO<sub>x</sub> Heavy-duty Engine news

- Cummings certified a .02 g/bhp natural gas heavy-duty engine in October 2015
- SWRI study on the technologies to meet lower NO<sub>x</sub> levels expected in Spring of 2016
- CA is planning on submitting a petition calling for increased stringency

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

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

# Next Steps

1. Annual Meeting proposed deliverables:
  1. Idling best practices
  2. SmartWay<sup>®</sup> emission benefits
  3. Follow efforts on heavy-duty engines emission standards
  4. Summary document on future federal actions
2. Continue efforts on aftermarket converters

# Questions?

