

# W e l c o m e : P a n e l S e s s i o n 2

Panel Leader: Ezra Finkin Diesel Technology Forum

## **Moving People and Product with High Efficiency Vehicles and Smart Business Strategies**

William Wolfgang, Director of Vehicle Engineering, Massachusetts Bay Transportation Authority

Mike Derrig, Fleet Director, Fresh Direct, LLC

## **Building a More Robust Northeast Transportation Infrastructure with Clean Construction and Off Road Equipment**

Leah Pilconis, Senior Environmental Advisor to The Associated General Contractors of America

Dorian Bailey, Senior Environmental Project Manager/Senior Environmental Chemist, The Port Authority of New York and New Jersey

# MEET THE LEADERS IN ADVANCED CLEAN DIESEL

The members of the Diesel Technology Forum are leaders of the diesel industry including engine and equipment makers, key component manufacturers, fuel producers and emissions control technology manufacturers.

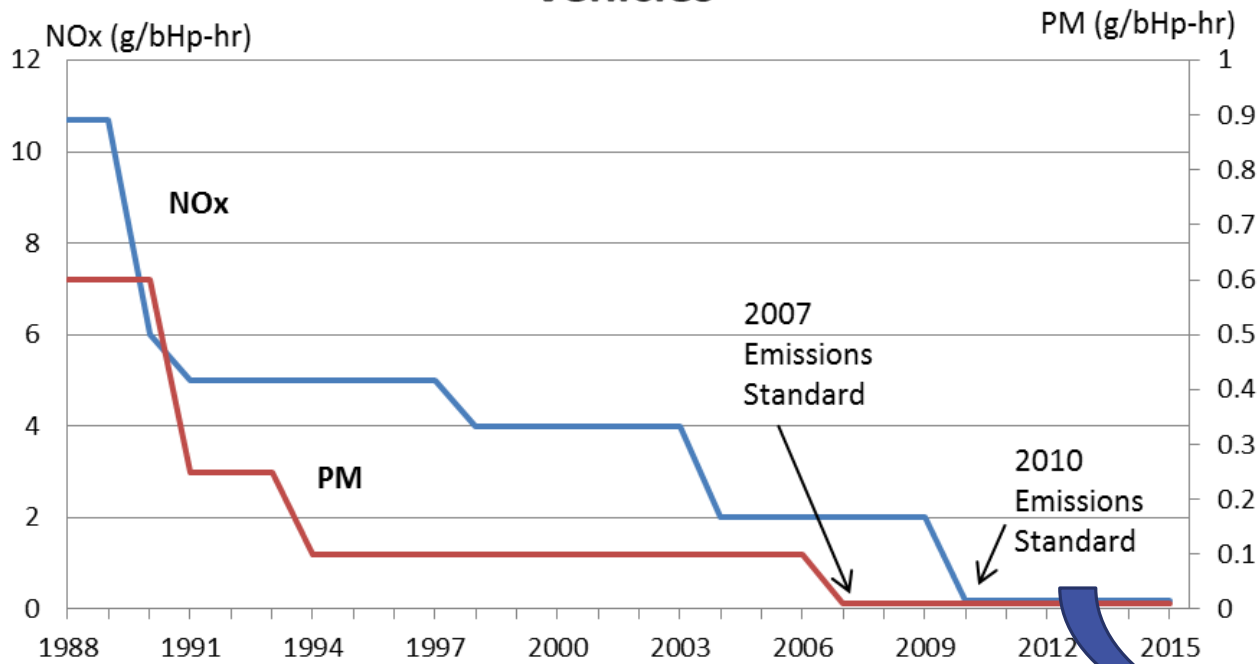


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# Moving People and Freight in the Northeast with Clean Equipment

## Engine Emissions Standards for Heavy-Duty Vehicles



**MY 1988 – MY 2010:**  
98% reduction in  
NOx and PM

# What is the population of these clean diesel trucks?



## Northeast States

## MY 2010 as a Share of the Heavy Duty Fleet

<b>PENNSYLVANIA</b>	<b>24.6</b>
<b><u>National Average</u></b>	<b><u>20.7</u></b>
NEW YORK	17.6
NEW JERSEY	17.4
MARYLAND	23.0
MASSACHUSETTS	18.4
CONNECTICUT	17.8
NEW HAMPSHIRE	17.4
MAINE	14.6
VERMONT	19.9
DELAWARE	18.5
RHODE ISLAND	20.5
DISTRICT OF COLUMBIA	11.4

# Benefits of Clean Diesel on the Road



Update 3

## ***Heavy Duty Diesel Engine Benefits***

### **Nationwide:**

21.0M barrels of crude

9.0M tonnes of CO<sub>2</sub>

~1.5 M tonnes NO<sub>x</sub>

39,500 tonnes of particulate matter

### **In Perspective:**

- NO<sub>x</sub> emissions from 154 coal power plants over one year
- Particulate Matter emissions from all light duty vehicles for 15 months

# Benefits of Clean Diesel on the Road in the Northeast



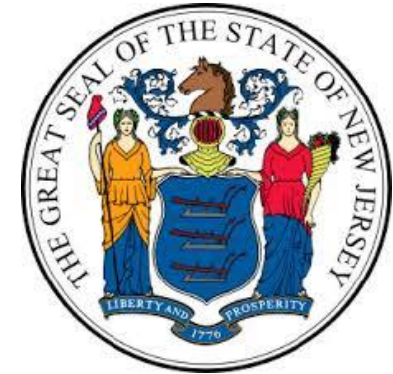
## Pennsylvania

- 350,000 tonnes CO<sub>2</sub>
- 900,000 barrels of crude
- 1,600 tonnes of PM
- 6,000 tonnes of NO<sub>x</sub>



## New York

- 240,000 tonnes CO<sub>2</sub>
- 600,000 barrels of crude
- 1,300 tonnes PM
- 5,000 tonnes NO<sub>x</sub>

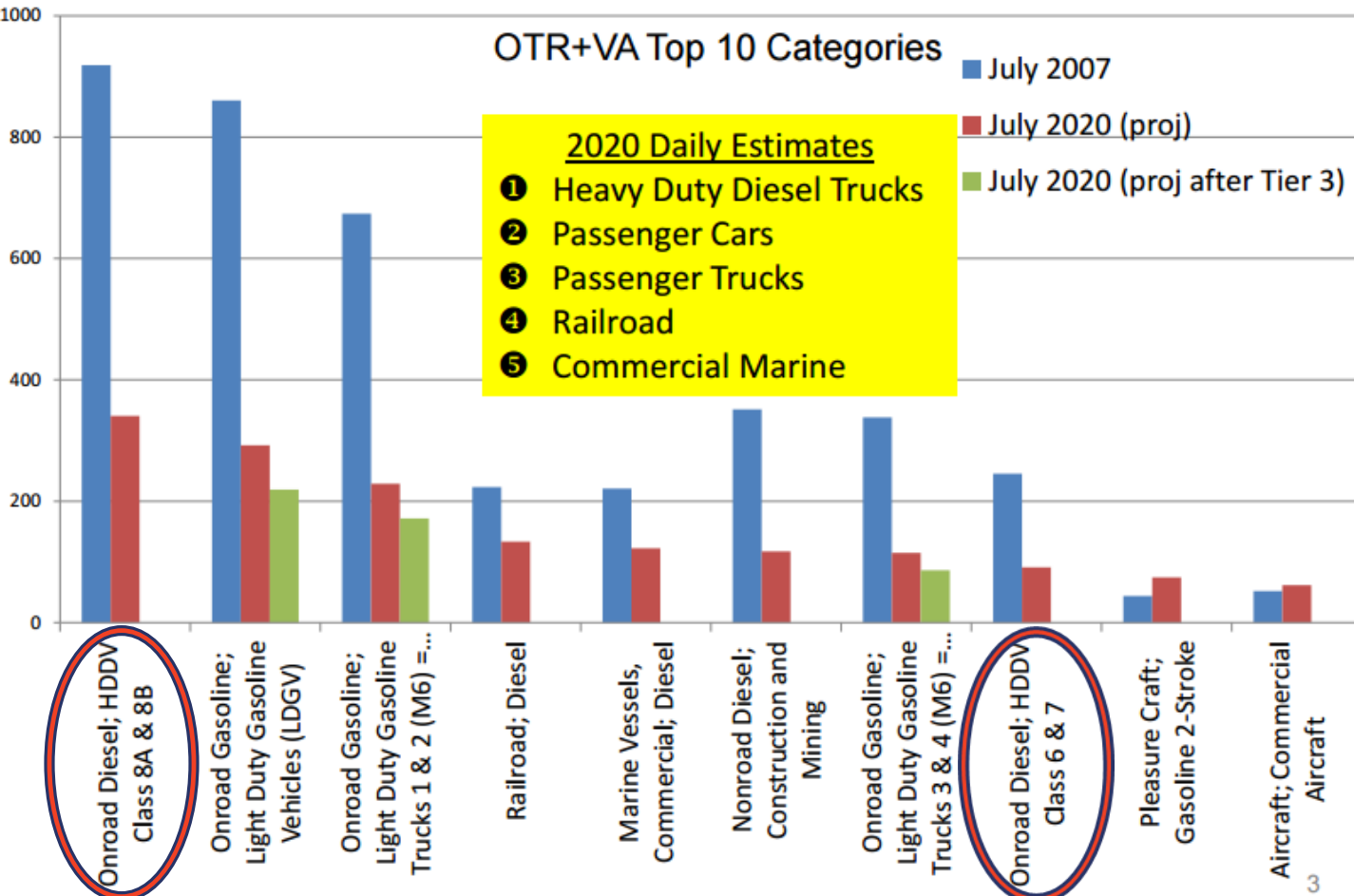


## New Jersey

- 150,000 tonnes CO<sub>2</sub>
- 300,000 barrels of crude
- 780 tons PM
- 3,000 tons NO<sub>x</sub>

# Why Are Clean Diesel Trucks Important?

Average Daily Tons of NOx



SOURCE: Ozone Transport Commission

# Next in the Clean Diesel Story...

## Off-Road Equipment



**Tier 4 Standards at work  
delivering clean air and  
fuel savings**

**Depending on Equipment  
Type and Horsepower  
range, Tier 4 compliant  
engines deliver more than  
a 90% reduction in NOx  
and PM**



# Thank you...

**Ezra Finkin**

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