

# Committee Reports

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## OTC Annual Meeting

June 15<sup>th</sup>, 2011  
Washington, DC



**OZONE** TRANSPORT COMMISSION

# Overview

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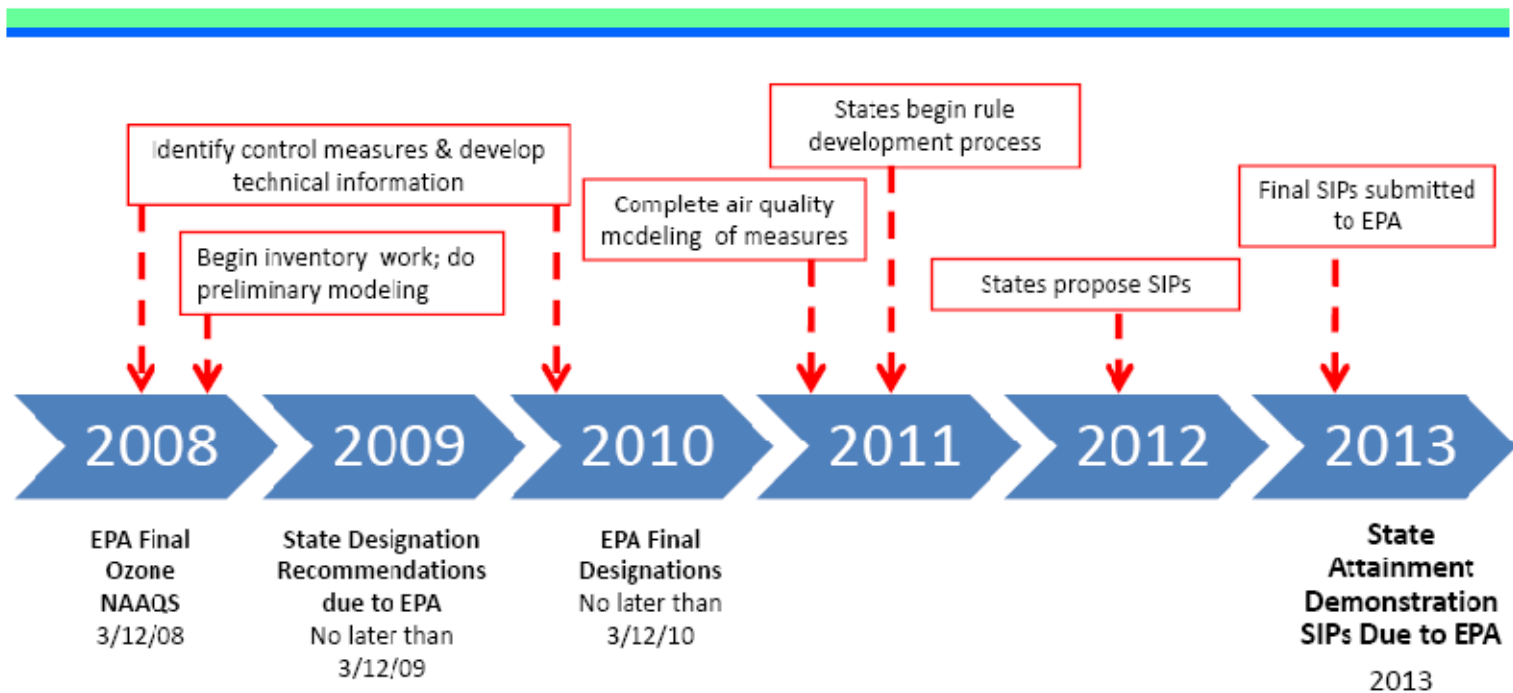
- 2011 Preliminary Ozone Air Quality Data
- Control Measure Development Schedule
- Mobile Source Committee Report

# Preliminary 2011 Ozone Air Quality

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- Thursday June 9<sup>th</sup> Ozone Event
  - **Code Red (Unhealthy AQI)** - 10 sites in the OTR (8-hr >95 ppb)
- Old Health Standard -
  - 2 sites with the 4th high greater than 84 ppb
- Current NAAQS (75 ppb) –
  - 20 sites not meeting the NAAQS (with 2008 – 11 data)
- Reconsidered NAAQS
  - If 70 ppb - 67 sites would not meet the NAAQS (with preliminary 2008-11 data)

# SIP Timeline for New O<sub>3</sub> NAAQS



2008 Ozone NAAQS Attainment Dates 2013 - 2030

# Mobile Source Committee Update

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OTC Annual Meeting

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# Overview

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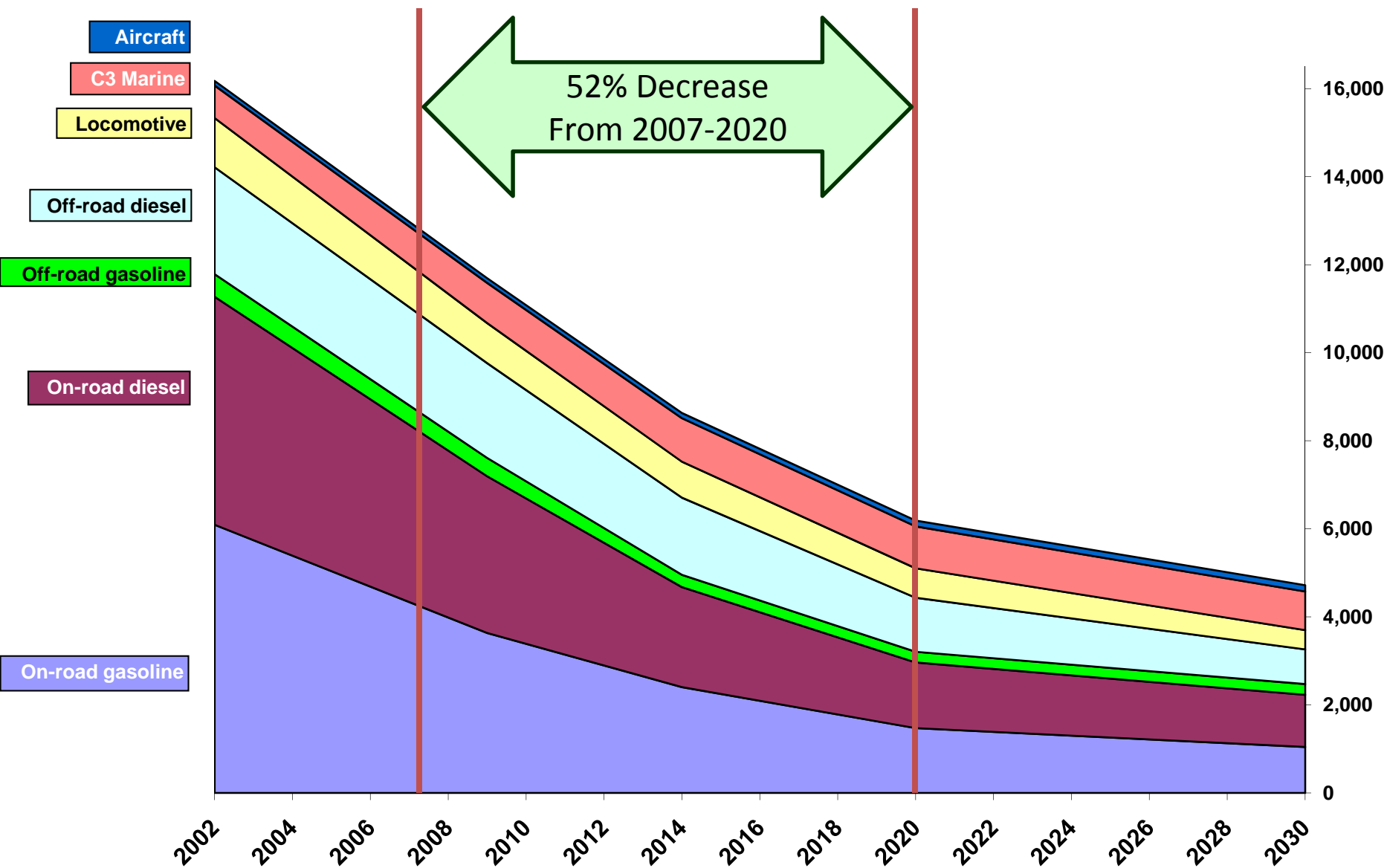
1. Inventory Analysis
2. Status of Federal “Asks” and Commitments
3. Mobile Source Committee Activity
4. Transportation Climate Initiative (TCI)
5. Next Steps

# EPA National Mobile Inventory Estimates

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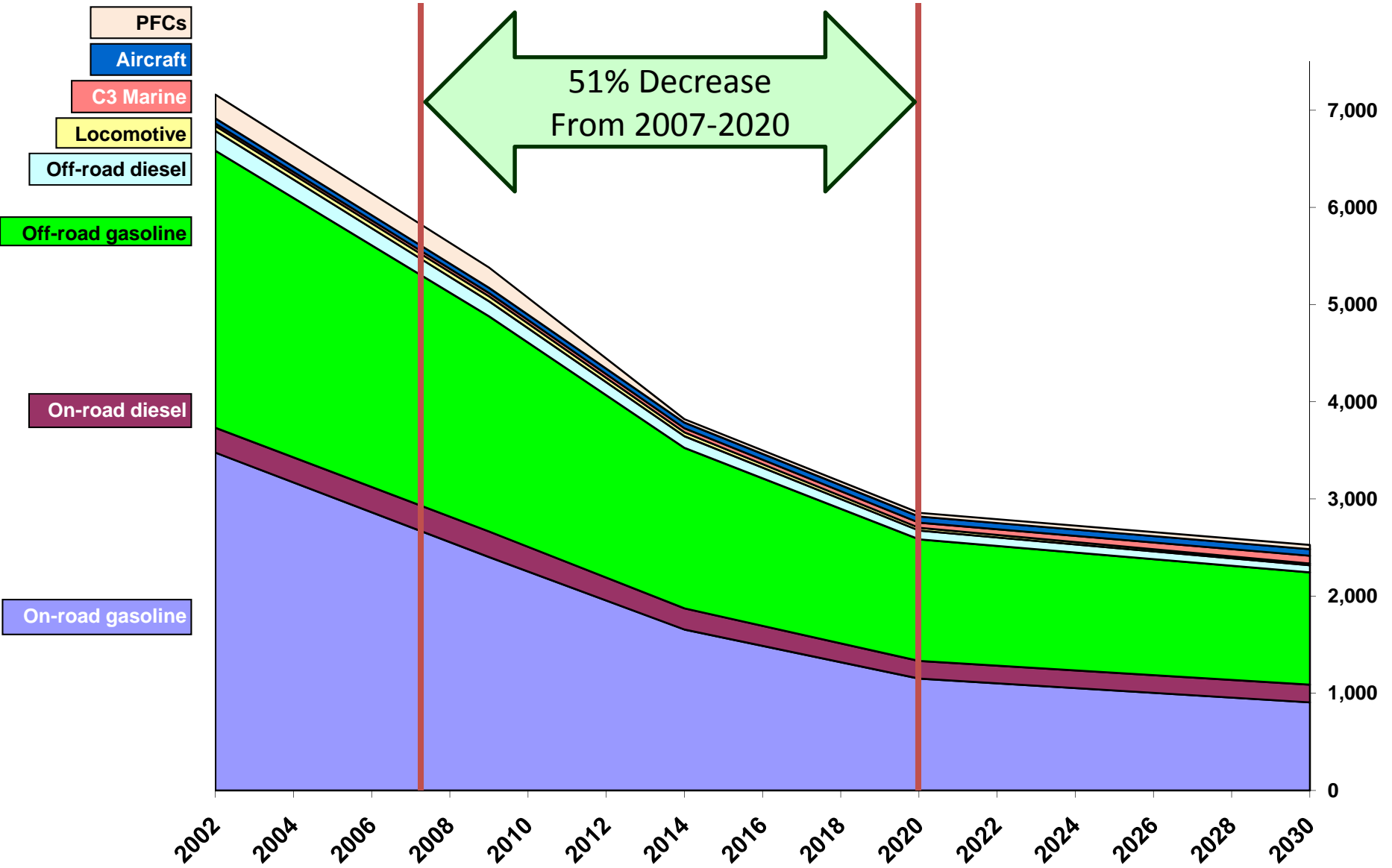
- Estimates from the National perspective
- Includes federal rules that are on the books as of March 2010:
  - C3 Marine Engine Size
  - C1/C2 Marine Engine Sizes
  - Locomotives
  - Nonroad Spark Ignition Engine
- The analysis does not include:
  - Light Duty GHG
  - Heavy Duty GHG

# Annual U.S. Mobile Source NO<sub>x</sub> Emission Projections (ktons per year) Including C3 Marine (ECA) Control



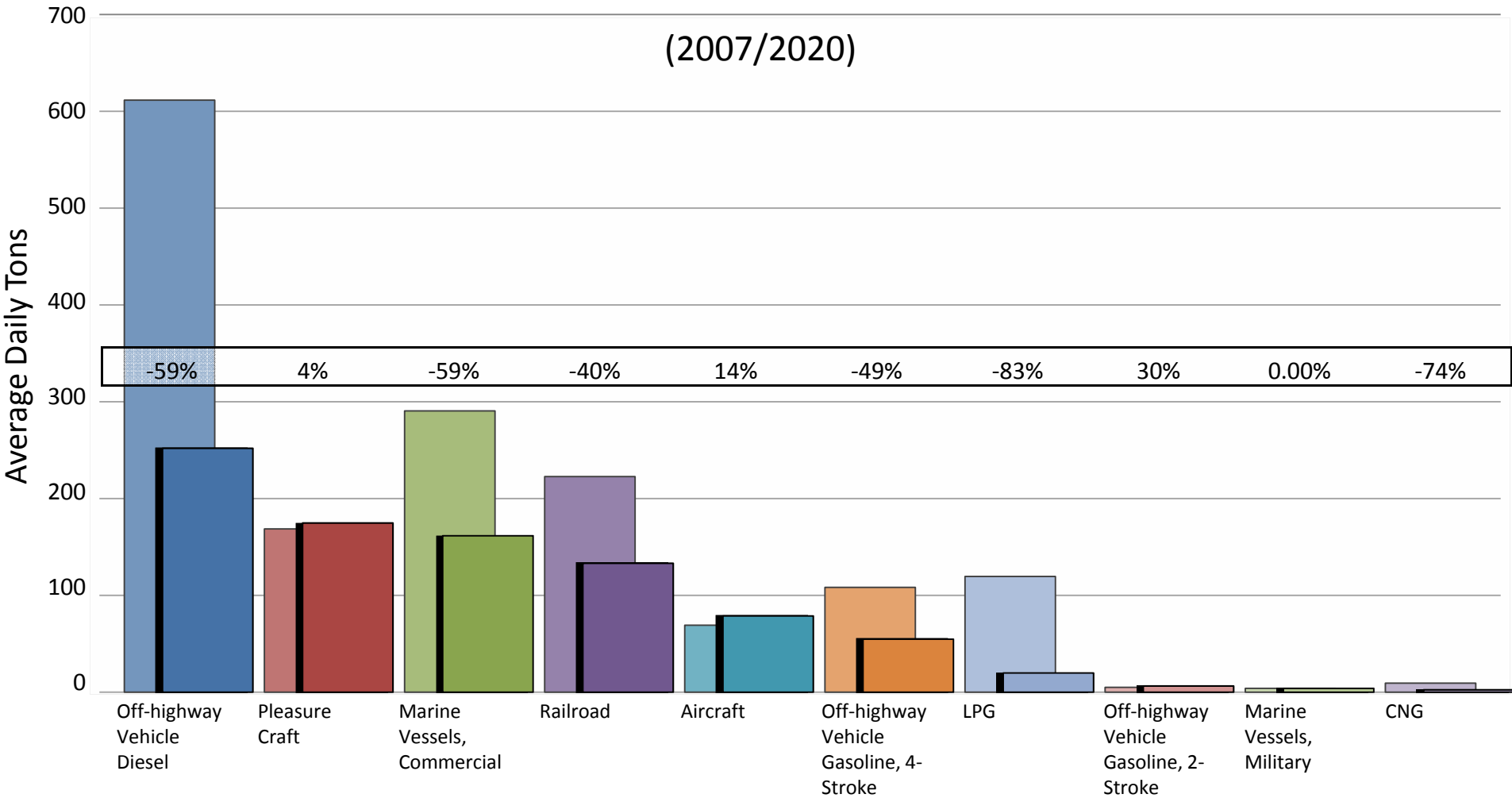


# Annual U.S. Mobile Source VOC Emission Projections (ktons per year) Including C3 Marine (ECA) Control



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

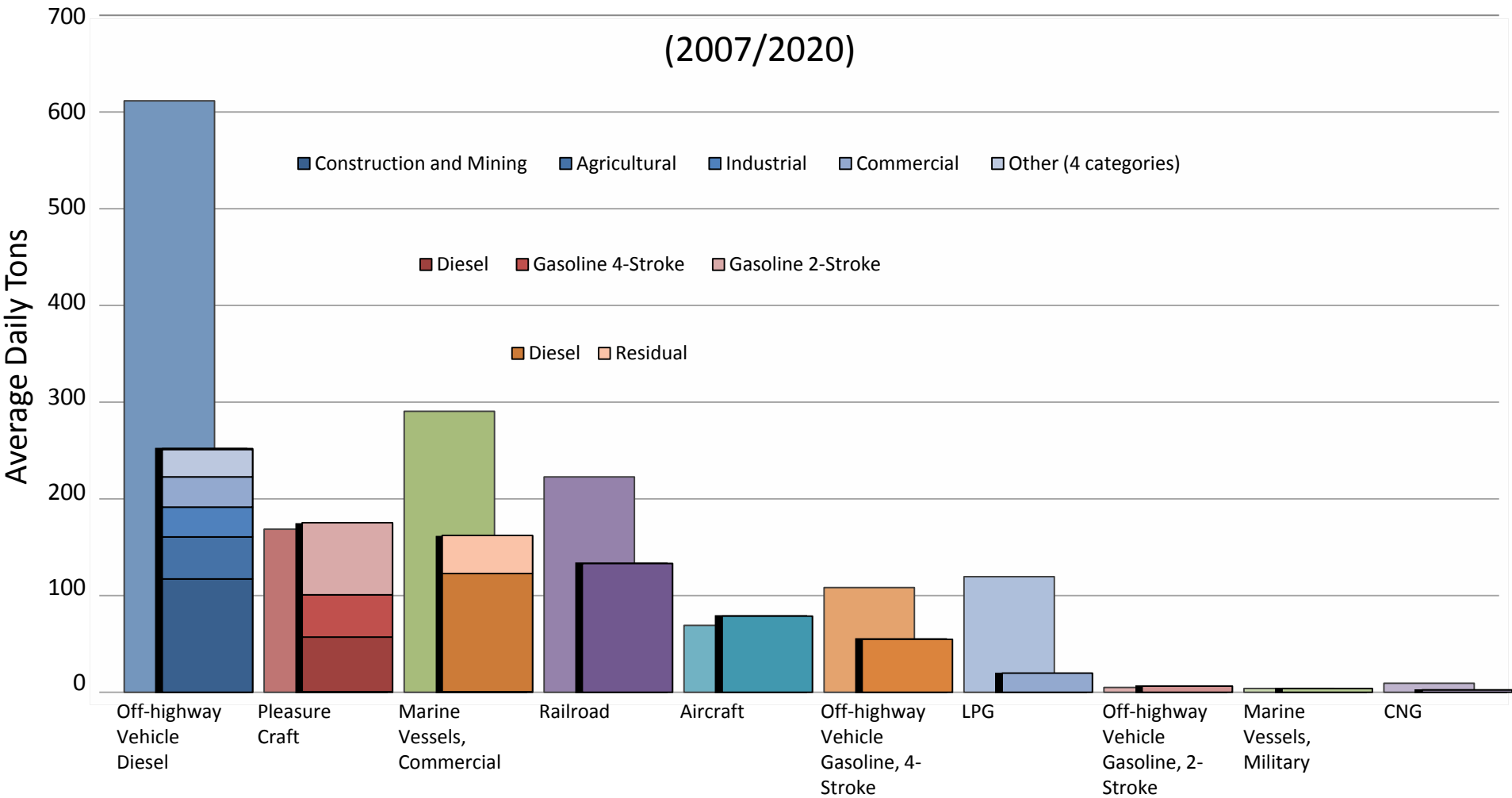
(2007/2020)



2007 Marine/Air/Rail: Updated 02/17/2011, Other Nonroad: Updated 09/29/2010

2020 Marine/Air/Rail: Updated 02/17/2011, Other Nonroad: Updated 01/05/2011

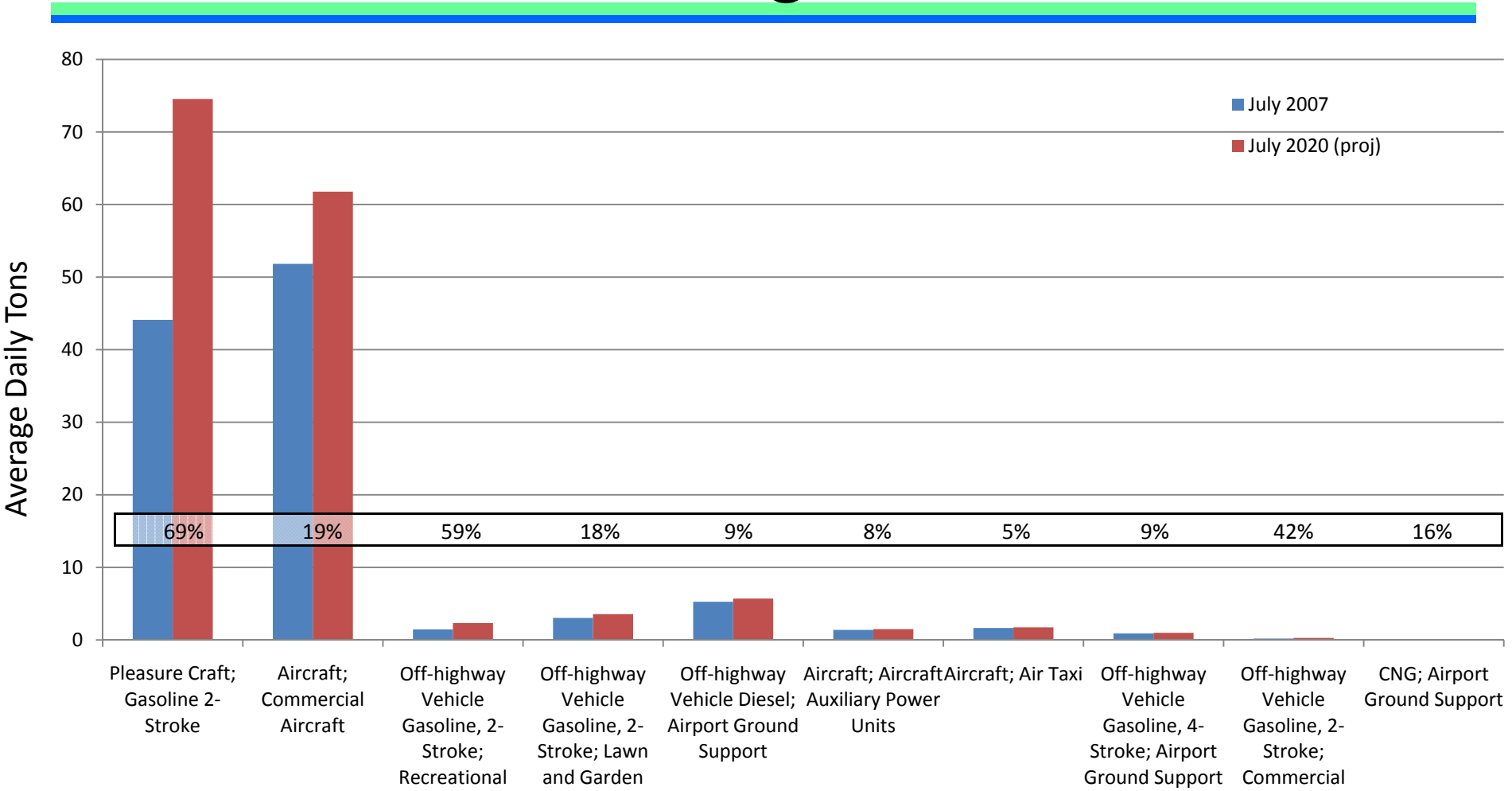
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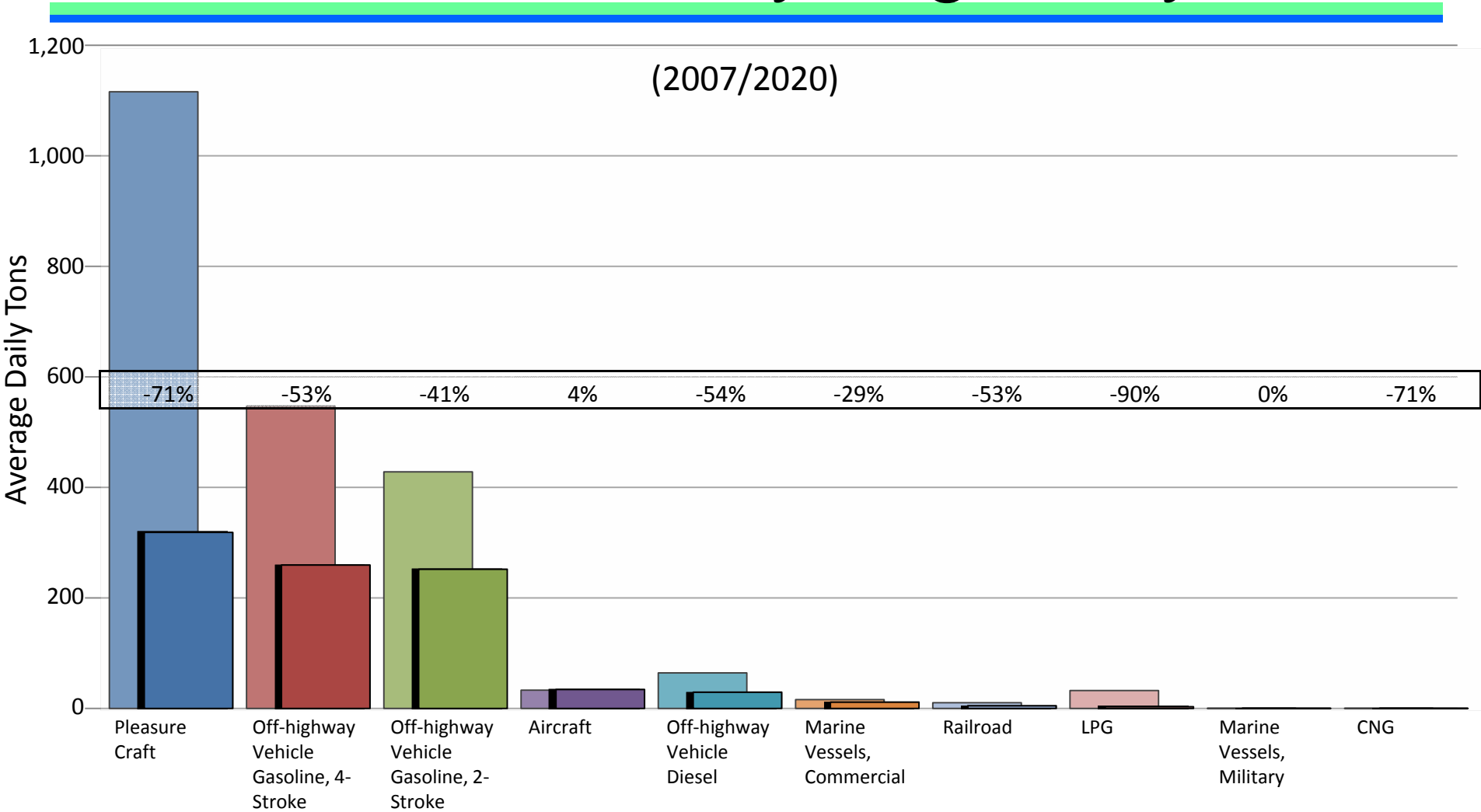
2020 Marine/Air/Rail: Updated 02/17/2011, Other Nonroad: Updated 01/05/2011

# Nonroad NOx: Categories that Increase



2007 Marine/Air/Rail: Updated 02/17/2011, Other Nonroad: Updated 09/29/2010  
 2020 Marine/Air/Rail: Updated 02/17/2011, Other Nonroad: Updated 01/05/2011

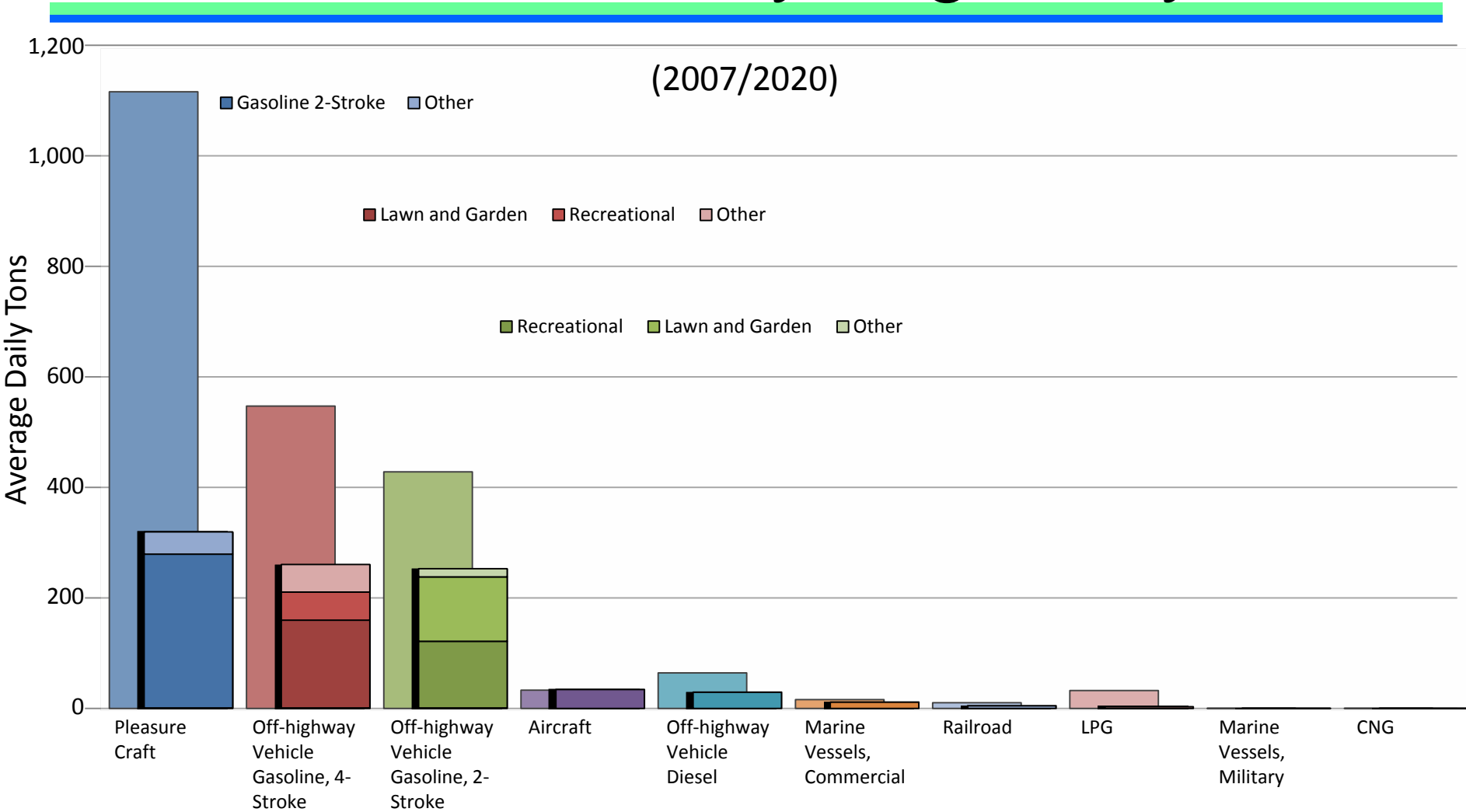
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# Nonroad VOC July Avg. Daily Tons



2007 Marine/Air/Rail: Updated 02/17/2011, Other Nonroad: Updated 09/29/2010






2020 Marine/Air/Rail: Updated 02/17/2011, Other Nonroad: Updated 01/05/2011

# Inventory Analysis: Summary

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- Significant emission reductions are expected by 2020 in all Mobile Source Sectors
- Mobile Sources are a large part of the OTR inventory
- Onroad:
  - Waiting for MOVES data
- Important nonroad categories during Ozone Season
  - NO<sub>x</sub> - Construction, Pleasure Craft, Marine
  - VOC - Pleasure Craft, Lawn/Garden, Recreational
- Emission Increases are projected for:
  - Pleasure Craft – 2-Stroke Gasoline – NO<sub>x</sub> (69%)
  - Aircraft - NO<sub>x</sub> (14%), VOC (4%)

# Status of OTC Federal Measure Asks

OTC Request	Action	
Mar 2009	Ships - Emission Control Area	
June 2009	Catalyst Replacements (April 2011 – OTC Program Design Recommendation)	
Nov 2009	Onroad Mobile Gasoline and Diesel Sources (November 2010 Statement on Tier 3)	
	Locomotive Engines	
	Marine Engines	



# Status of Federal Measure Requirements / Commitments

Date	Action	
Dec 2010	RFS2 Anti-Backsliding	
2012	Heavy Duty Truck Greenhouse Gas Standards	
2014	Clean Vehicles 75 ppb Ozone NAAQS Regulatory Impact Analysis	

# Renewable Fuel Standard (RFS) II

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- Goal: Increase the volume of renewable fuel to reduce GHG emissions
- OTC is concerned about increased emissions
  - Projected NO<sub>x</sub> increased by 2022
    - 241,00 tons from upstream production
    - 71,000 tons from downstream use
  - Projected hydrocarbon (VOC) increase by 2022
    - 77,000 tons from upstream production
    - 35,000 tons from downstream use
- Energy Independence and Security Act (EISA) requires the EPA to implement appropriate measures to mitigate any adverse impacts on air quality

# Cleaner Vehicles

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- EPA envisioned cleaner vehicles to meet the 75 ppb Ozone NAAQS
  - An “improved catalyst design” was included in the baseline analysis
  - 50% of new cars in 2013, with full phase in by 2014
- April 2010, DOT and EPA established GHG emission and fuel economy standards for MY2012-2016 light-duty cars and trucks
- May 2010, EPA, DOT and California announced they would produce joint LEV3/Tier 3 standards for MY2017-2025 in Sept 2011

# Mobile Source Committee Activities

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- Nonroad Idling Model Rule
- Goods Movement

# Nonroad Idling Model Rule

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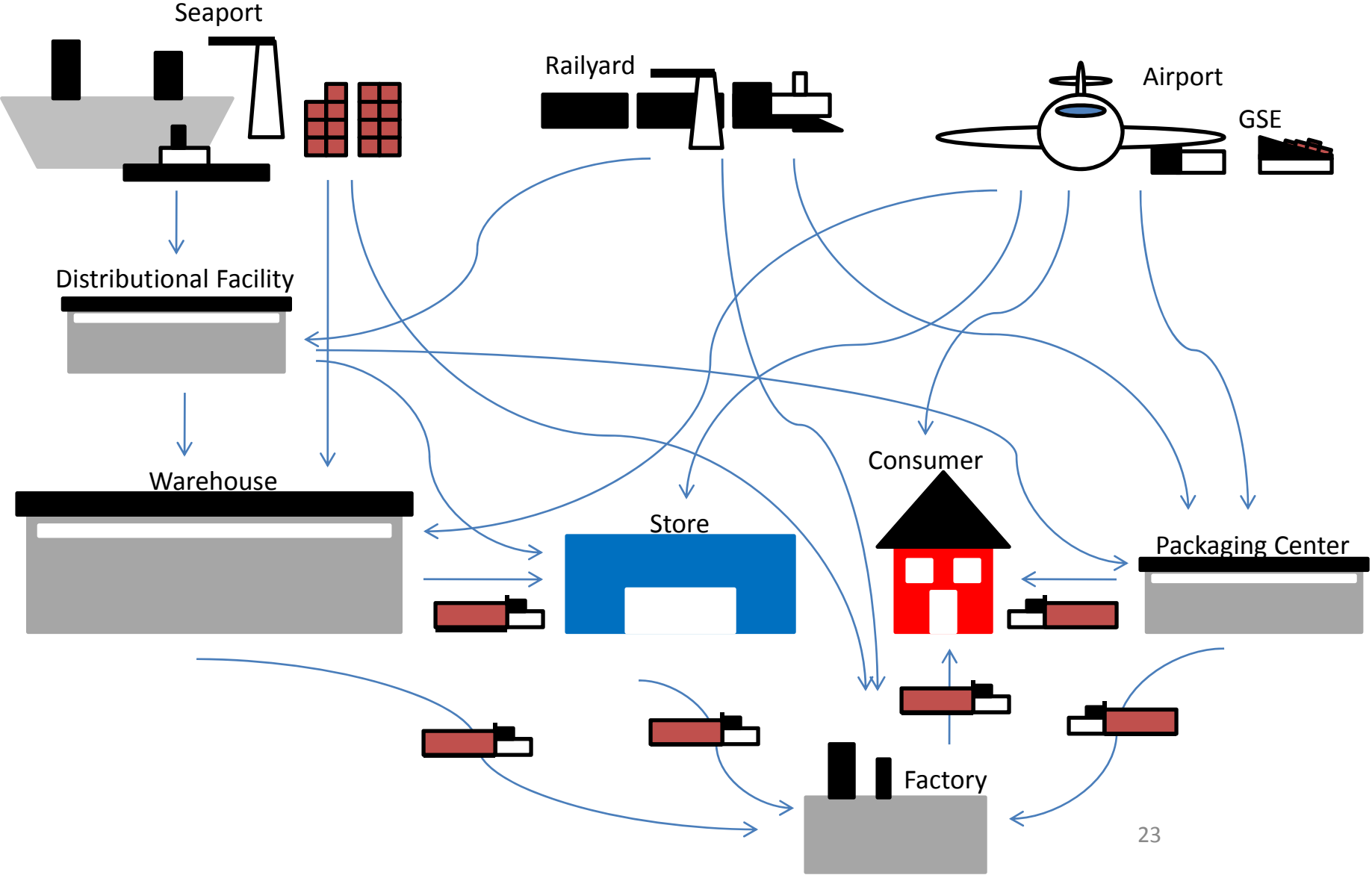
- Goal: Reduce emissions by decreasing unnecessary idling from nonroad engines
- Nonroad diesel engines are major sources of:
  - Oxides of Nitrogen (NO<sub>x</sub>)
  - Fine Particulate Matter (PM<sub>2.5</sub>)
  - Toxic Air Pollutants
- Many states prohibit unnecessary idling of highway diesel trucks, but only a few prohibit it for non-road equipment
- Model Rule and Guidance are Complete
- TSD in late Summer
  - Working with NESCAUM and EPA to improve emission benefit analysis

# Nonroad Idling: Stakeholder Outreach

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- Initial Model Rule posted on 9/2010
- Evaluated and incorporated stakeholder comments
- Drafted an accompanying guidance document
- Stakeholder Activities
  - Fall '10 Stakeholder Meeting
  - Hosted stakeholder calls on:
    - 11/22/10 with Associate General Contractors (AGC)
    - 12/02/10 with RRI Energy
    - 02/01/11 with EMA, AGC, and other Manufacturers
  - Posted Revised Draft on 3/11/2011
  - Spring '11 Stakeholder Meeting

# Goods Movement Strategy: Overview



# Goods Movement Strategy: Schedule

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- Strategy Proposal Document: **Complete**
- Rank Categories Based on Emissions: **July 2011**
- Preliminary Analysis of Target Categories: **August 2011**
- Determine Focus of Strategy: **August 2011**
- Develop Policy Direction: **September 2011**



# Measures Under Consideration

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- Heavy Duty Inspection & Maintenance (I/M)
  - Working through the NESCAUM heavy duty workgroup
- Low Emission Vehicles (LEV)
  - Working through the NESCAUM LEV workgroup
- Inventory Exploration

# Transportation and Climate Initiative

## of the Northeast & Mid-Atlantic States

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- 11 states and District of Columbia, launched in June 2010
- Goals: reduce GHG emissions in the transportation sector and help build the clean energy economy
- 4 focus areas: Clean Vehicles & Fuels, Sustainable Communities, Freight Efficiency, Information & Communications Technologies
- June 7, 2011 Summit of agency heads from the environment, energy and transportation agency from each TCI state
  - Adopted an Agreement to Support Sustainable Communities
  - Made progress toward an Agreement to develop a Northeast Regional Electric Vehicle Network and address other alternative fuels, including CNG and biofuels
  - Agreed to submit a grant application to DOE for regional electric vehicle infrastructure planning
  - Urged staff to focus on issues of transportation funding and financing

# Next Steps

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- MOVES Onroad Estimates are needed to complete:
  - Inventory Analysis
  - Goods Movement Emissions Analysis
- Nonroad Idling:
  - Complete TSD
- Define a Good Movement Strategy
- Inventory Analysis
  - Aircraft
  - Pleasure Craft