

# UPDATE ON IMPLEMENTATION OF THE TRUCK & BUS REGULATION



OCTOBER 24, 2013

# Main Topics



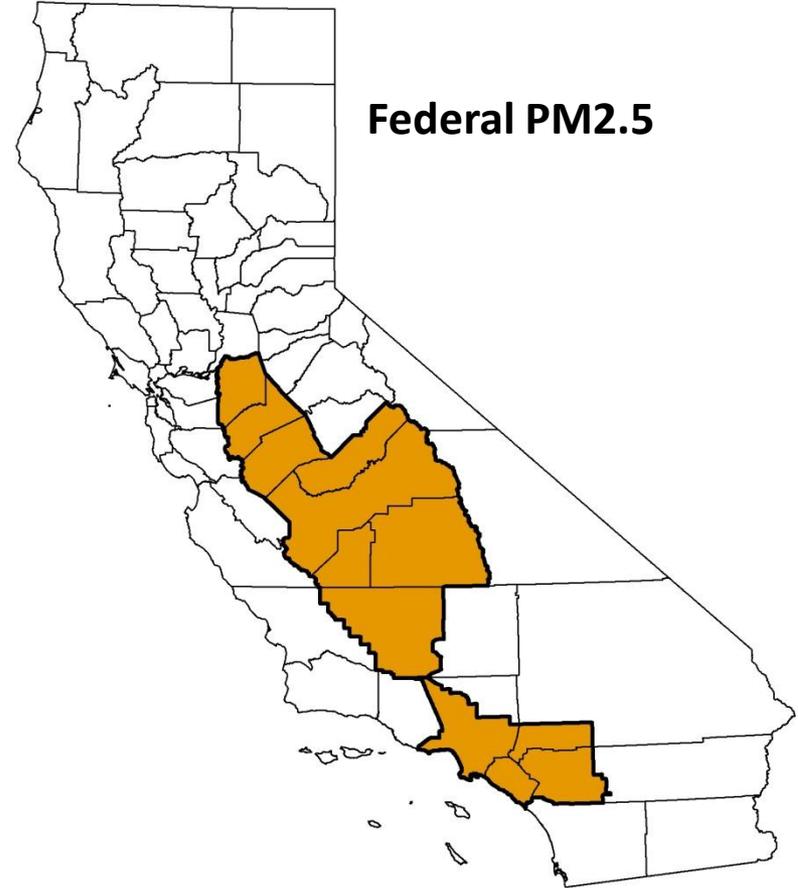
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- Need for Emission Reductions
- Overview of Regulation
- Rule Benefits
- Implementation Status
- Initiatives to Foster Compliance
- Moving Forward

# Many Areas of State Do Not Meet Federal Air Quality Standards



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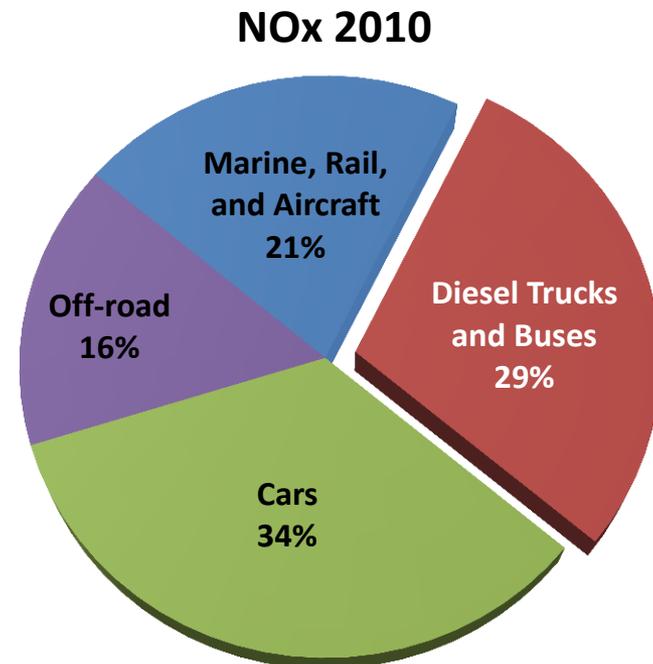
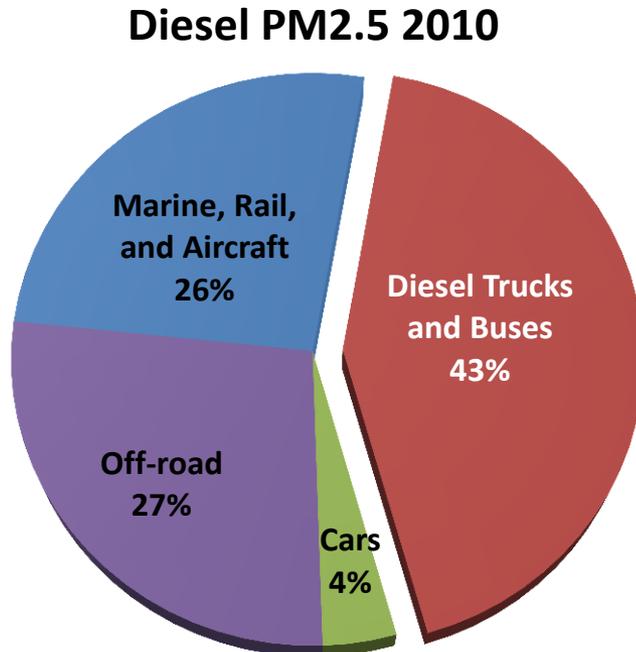
 Nonattainment

# Trucks Significant Source of Emissions



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- Reductions needed
  - Meet air quality standards
  - Reduce localized risk throughout the State



# Truck Cleanup Key to Air Quality



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- Needed to meet federal deadlines
- State plan identifies commitments
  - Strategy for PM<sub>2.5</sub> and Ozone
  - Largest share of reductions expected from trucks
  - Approved by EPA

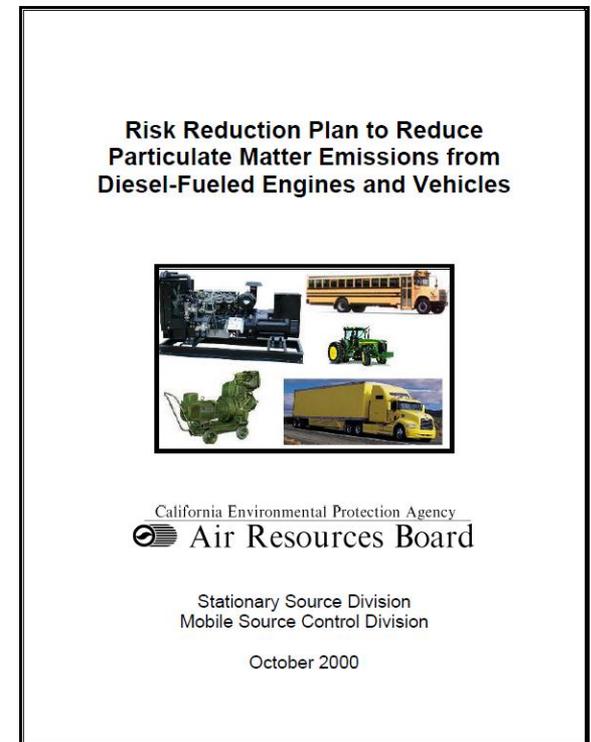


# Reducing Diesel PM is a Public Health Priority



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- Toxic air contaminant
- 2000 Diesel Risk Reduction Plan
  - Reduce cancer risk by 85% by 2020
- Other health impacts
  - Hospital admissions
  - Asthma rates
  - Acute bronchitis
  - Work days lost
- Children/elderly most vulnerable



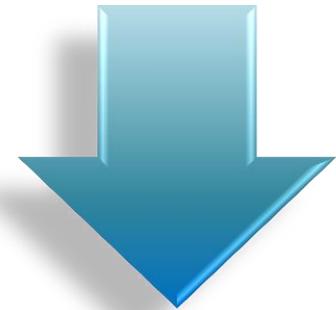
# Reducing Diesel PM Provides Climate Benefits



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- Climate impacts
  - Increases climate warming
  - Accelerates ice and snow melt
  - Disrupts precipitation patterns
- Immediate reduction benefits
  - Slowing rate of climate change

**Diesel PM contains  
Black Carbon**



**70% decrease from  
1990-2010**

# Significant Cleanup Already Accomplished



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- Diesel PM reduction strategies
  - Cleaner fuels and engines
  - Alternative fuel strategies
  - Operational controls
  - In-use requirements

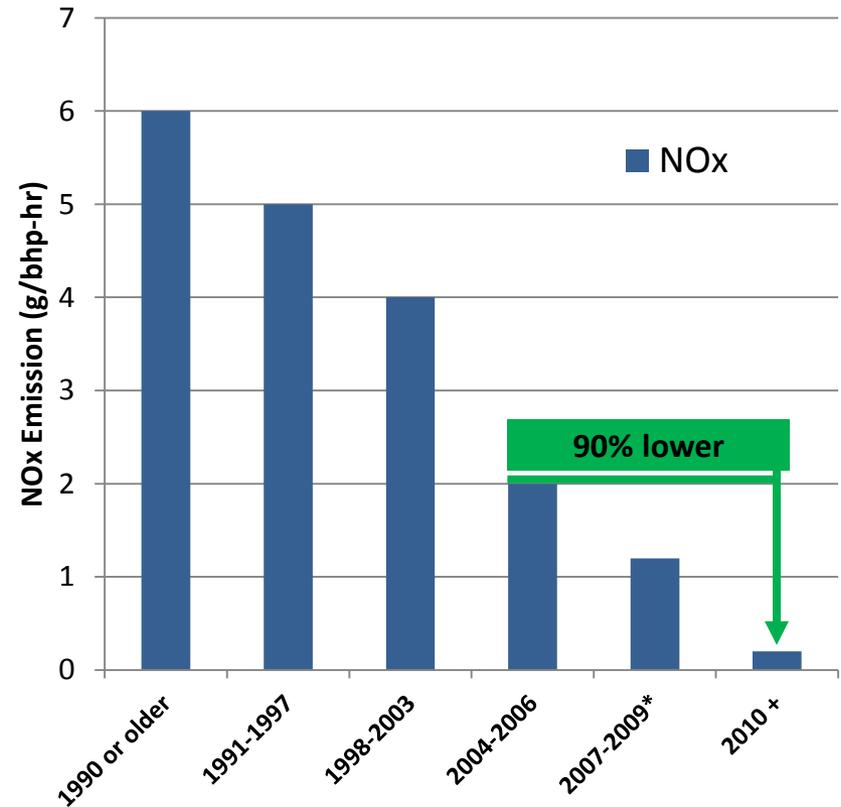
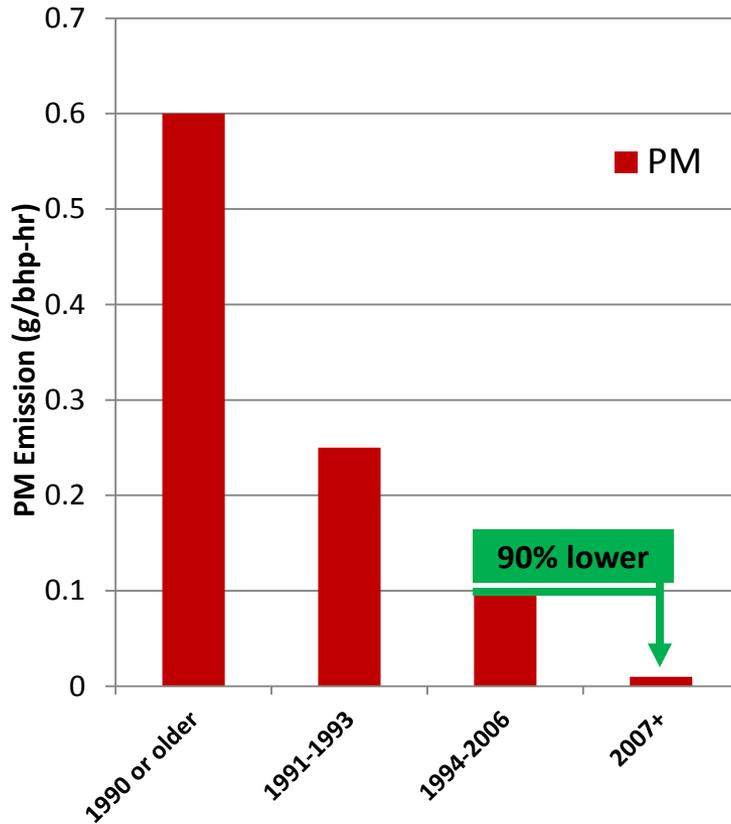


# Newer Trucks Significantly Lower Emissions



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## Heavy-Duty Diesel Engine Emission Standards



\* Reflects Manufacturer Average

Note: Emissions are average in-use emissions by engine model year

# Localized Benefits Confirmed



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- July 2007 and July 2010 L.A./Long Beach study
  - Measurements at busy intersections
  - Black carbon (BC) and NOx levels reduced 50%
- November 2009 to June 2010 Oakland study
  - BC emissions reduced 54%
  - NOx emissions reduced 41%
  - BC reduced 40% at Caldecott Tunnel in 9 years

# Truck and Bus Regulation Reduces Emissions



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- Basic Requirements
  - Lighter Vehicles
    - Upgrade to 2010+ Engine 2015-2023
  - Heavier Vehicles
    - PM Filters 2012 – 2014, then
    - Upgrade to 2010+ Engine 2020-2023
- Small fleet options
- Phase-in for large fleets



# Flexibility in the Regulation



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## Low-Use Agriculture

- Compliance 2017 or 2023



## Log Truck Phase-In

- Upgrade to 2010 engines 2014-2023



## NOx Exempt Areas

- Filter only phase-in 2014-2016



## Low-Mileage Construction

- Phase-in 2014 to 2016



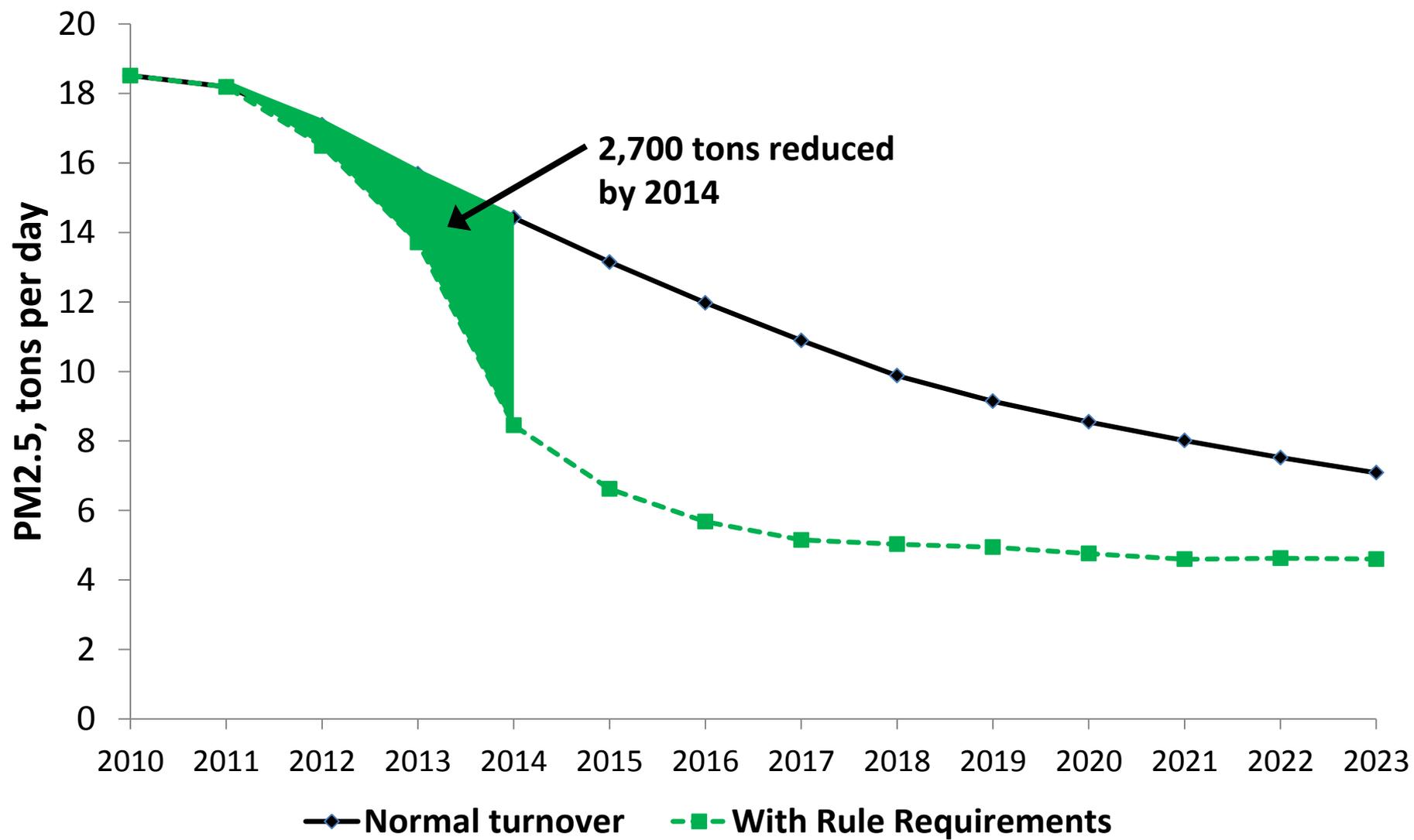
## Low-Use Exemption

- 1,000 miles per year
- 100 hours per year if stationary work

# PM Benefits Already Realized



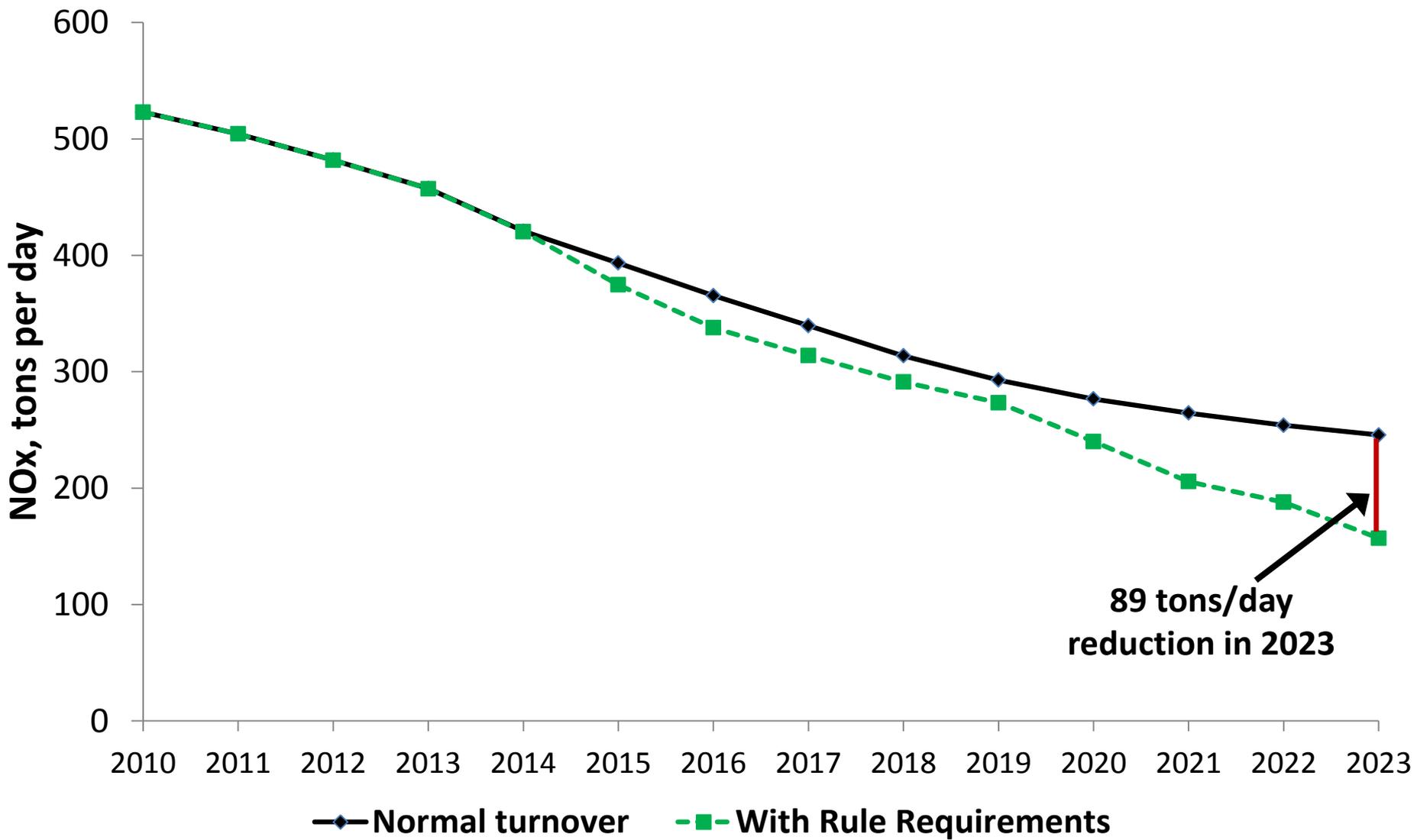
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# Significant NOx Benefits Expected



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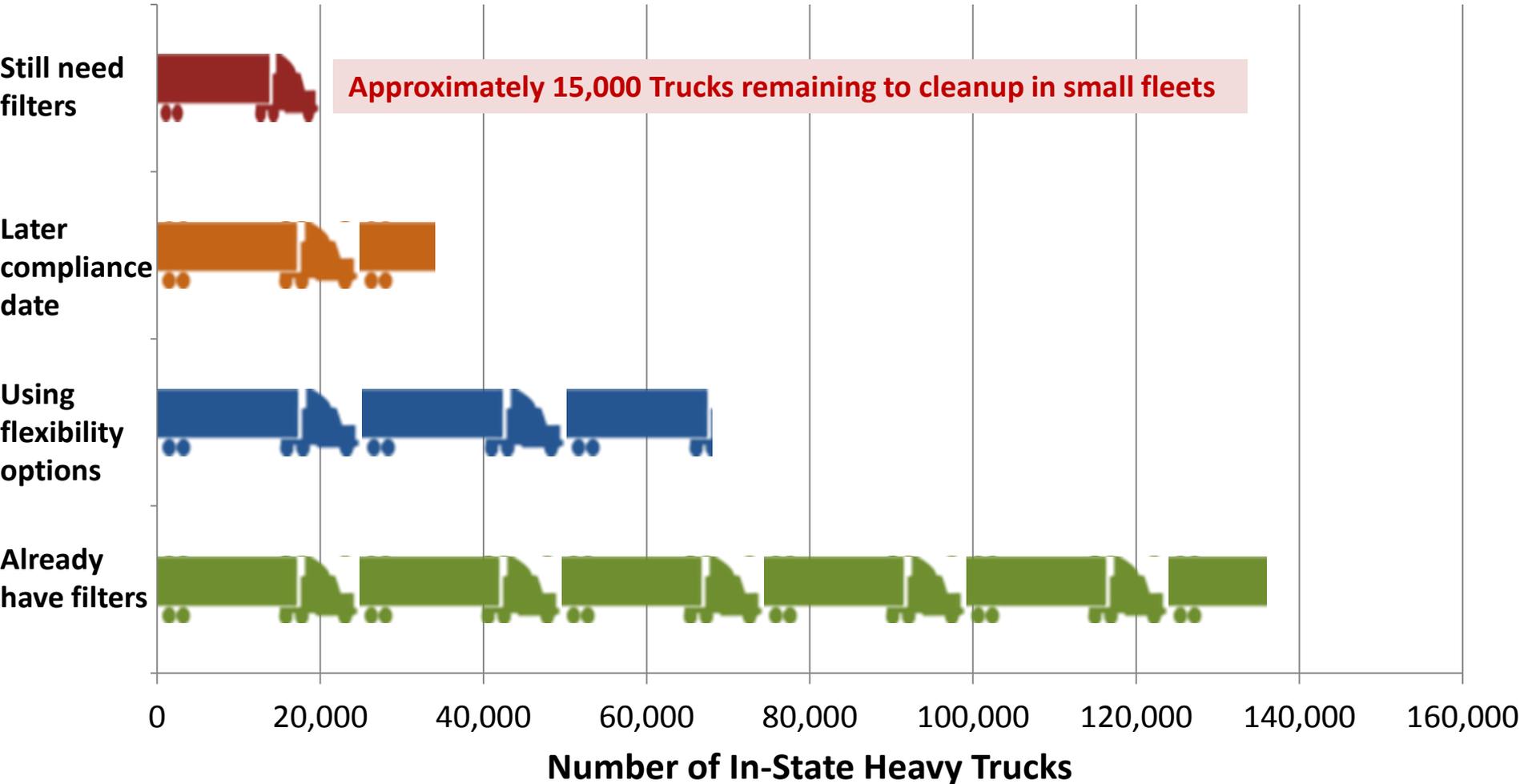


# Compliance Status of Trucks that Need PM Filters



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## 2014 Compliance Status



# Transitioning Fleets into Compliance



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- Ongoing compliance assistance
- Addressing compliance challenges
  - Urban and nonattainment areas
  - Rural and attainment areas
- Recognizing good faith efforts

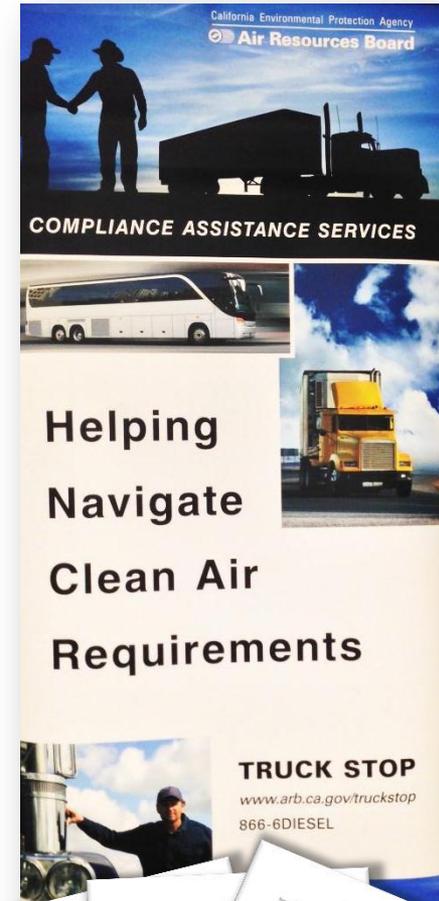


# Ongoing Compliance Assistance



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- Training: 13,000 truckers since 2012
- Diesel Hotline: 84,000 calls since 2012
- Individualized fleet assistance
- Publications (fact sheets, postcards)
- Assistance in Spanish and Punjabi
- [ARB.CA.GOV/TRUCKSTOP](http://ARB.CA.GOV/TRUCKSTOP)



# Additional Outreach Underway



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- Pump toppers
- Truck publications
  - Spanish & English
- Television and radio
- Retail outlets
- Increased web presence

**Vendor assistance here today**

**Operating a Truck in California?**  
NEW AIR QUALITY REGULATIONS AFFECT YOU  
California Environmental Protection Agency  
Air Resources Board

Visit [ARB.CA.GOV/TRUCKSTOP](http://ARB.CA.GOV/TRUCKSTOP) Or call toll-free **866-6-DIESEL**

**Operating a Truck in California?**  
...NEW AIR QUALITY REGULATIONS AFFECT YOU

"It's time to comply...there are no extensions."

California Environmental Protection Agency  
Air Resources Board  
For information on how to comply, visit: [ARB.CA.GOV/TRUCKSTOP](http://ARB.CA.GOV/TRUCKSTOP)  
Or call toll-free **866-6-DIESEL**

**¿CONOZCA LAS REGLAS...**  
Haga que su camión o autobús las cumpla...  
Si no lo hace, puede ser sacado de circulación.

"Necesito trabajar... no las preocupaciones que implica tener un camión que no cumple con las normas"  
"Mi camión cumple con las regulaciones y ahora consigo más trabajo"  
"Llegó el momento de cumplir con las normas... ¡se terminaron las extensiones!"

**¿Opera un camión en California?**  
LAS NUEVAS REGULACIONES SOBRE LA CALIDAD DEL AIRE LO AFECTAN A USTED

California Environmental Protection Agency  
Air Resources Board  
Para obtener información sobre cómo cumplir con las normas, visite: [ARB.CA.GOV/TRUCKSTOP](http://ARB.CA.GOV/TRUCKSTOP)  
O llame gratis al **866-6-DIESEL**

# Additional Outreach Underway



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# Addressing Concerns in Urban & Nonattainment Areas



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- Funding opportunities
  - Statewide truck loan program for small fleets \$20 million
  - Prop 1B assistance for truck replacements \$180 million
- Additional flexibility recommended by staff
  - Allow additional trucks to use existing options
    - Low-use agriculture vehicles
    - Low-mileage construction trucks
  - Increase low-use vehicle threshold through 2020

# Addressing Concerns in Rural & Attainment Areas



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- Funding opportunities available
  - Statewide truck loan program for small fleets \$20 million
  - Log truck grants \$3 million
- Additional flexibility recommended by staff
  - Allow additional trucks to use existing options
    - Low-use agriculture vehicles
    - Low-mileage construction trucks
  - Increase low-use vehicle threshold through 2020
  - Adjust NOx exempt area provisions
    - Regions covered
    - Compliance deadlines

# Advisory on Good Faith Efforts to Comply



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- Report Trucks in TRUCRS
- Actions taken before January 1, 2014
  - Order PM filter
  - Order replacement truck
  - Apply for grant
  - Apply for loan
- Provide 6 months to complete effort or as required by grant contract
  - Fleets must report to ARB
- Recognize potential regulatory changes
- Release late October

# Moving Forward



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- Continue compliance assistance
- Continue funding opportunities
- Release regulatory advisory
- Return to Board by April 2014
  - Regulatory changes
  - Implementation update

