

# Vision for Clean Air: A Framework for Air Quality and Climate Planning

Air Resources Board Meeting  
June 28, 2012

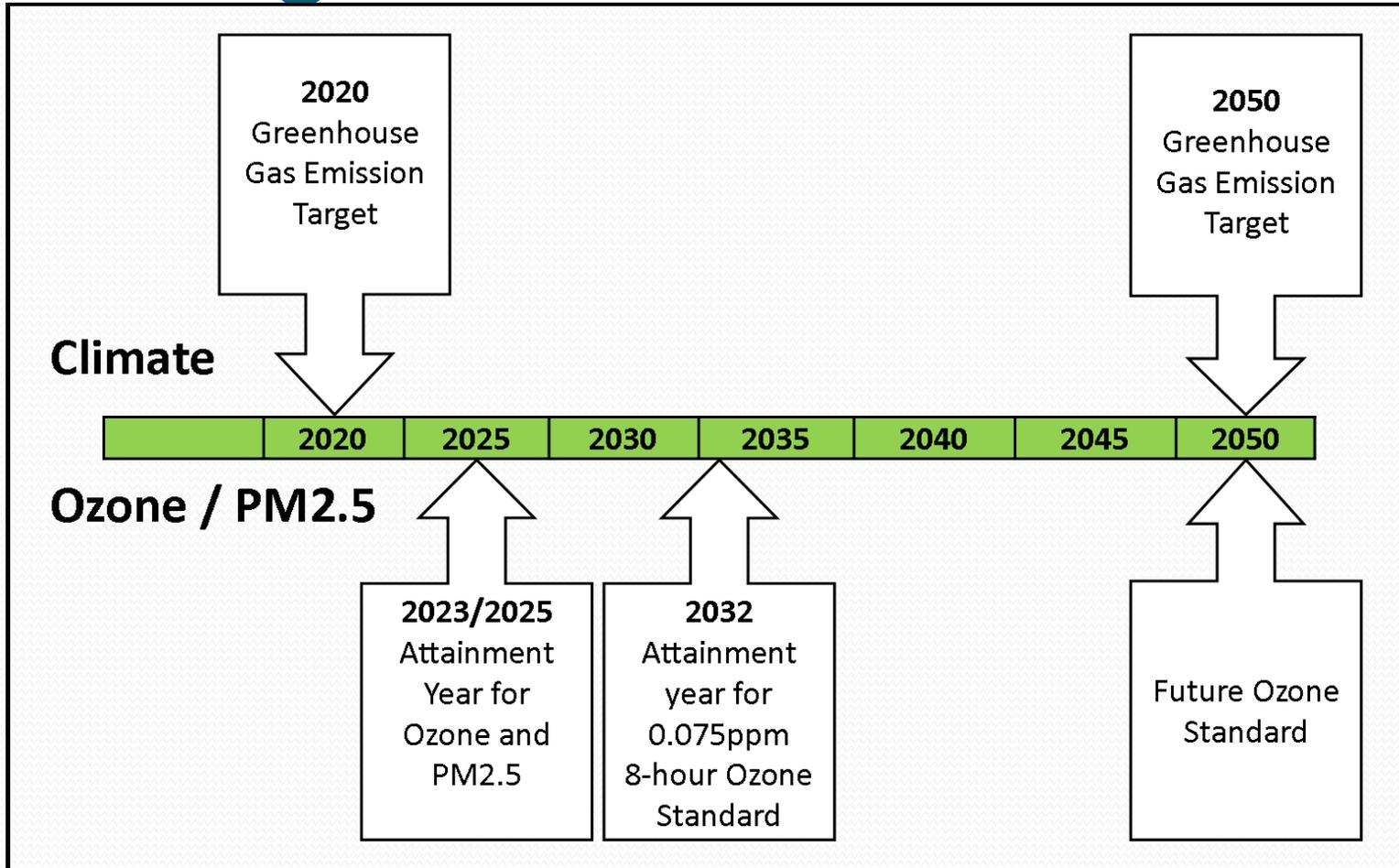
California Environmental Protection Agency

 **Air Resources Board**

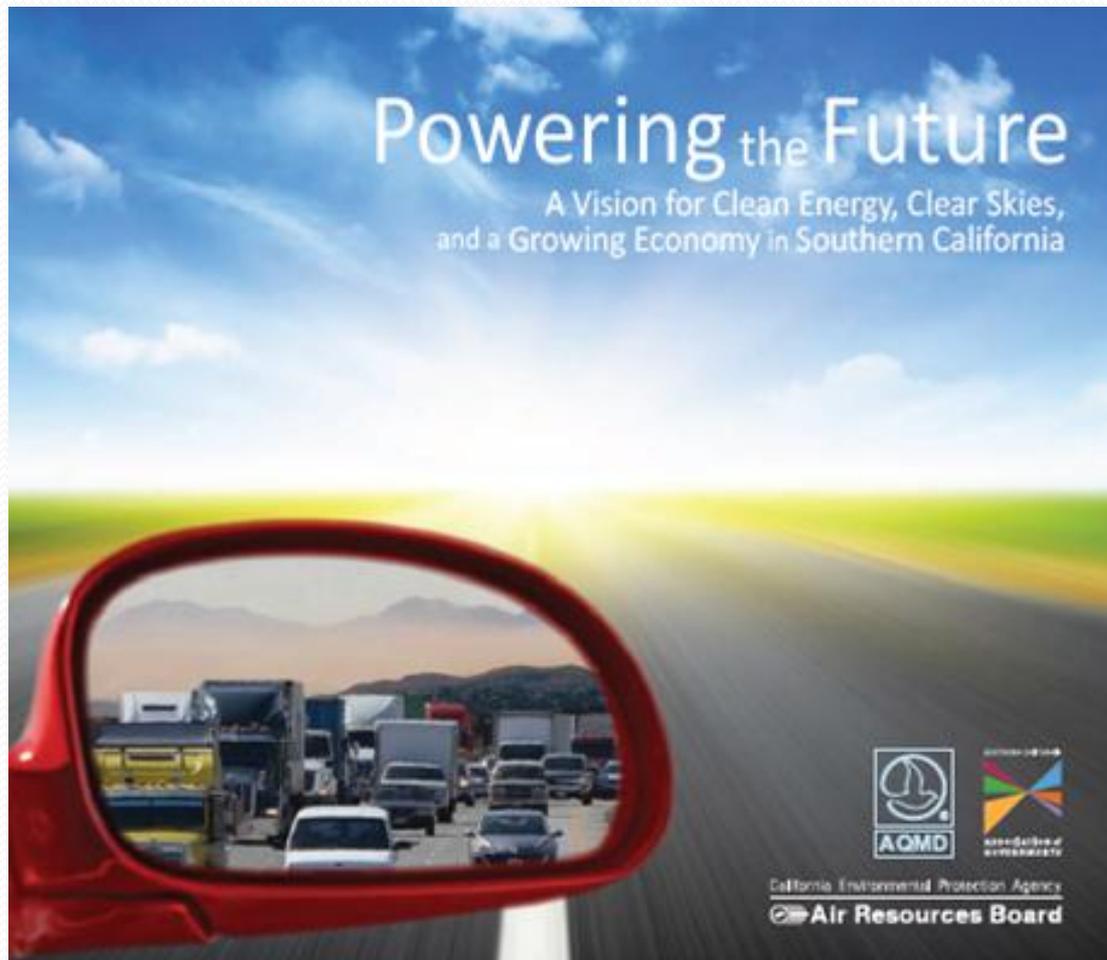
# Vision's Planning Framework

- **Take a broader view of planning from multi-pollutant perspective**
- **Integrate planning efforts:**
  - **Clean Air Act – “SIPs”**
  - **AB 32 Scoping Plan Updates**
  - **Freight Transport planning**

# Planning Horizons



# “Powering the Future” Set Stage



# Key Planning Targets

- **Clean Air Act compliance requires an 80% reduction in NOx emissions by 2023**
- **85% reduction in greenhouse gases from today's levels is needed to meet 2050 goal**

# Benefits of Comprehensive Planning

- **Taking a broader look is necessary to develop the comprehensive clean air strategies needed**
- **Provides a more comprehensive view of air quality and climate strategies in the broad context of the economy and environment**

# Vision's Planning Process

- **Start with benefits of existing programs**
- **Develop scenarios for further improvements in efficiency and cleaner technology, fuels, and energy sources**
- **Look at multi-pollutant results to inform plan development**

# Vision: Multi-Pollutant View

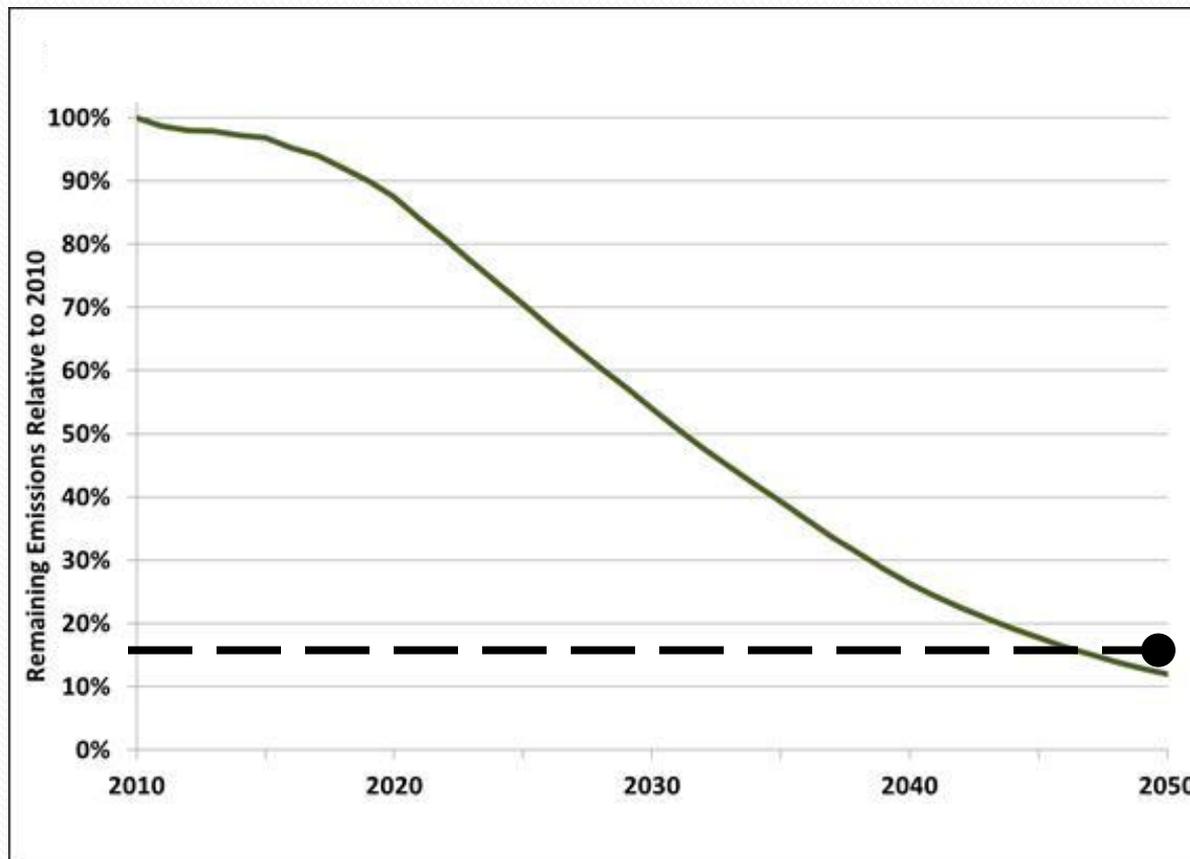
- **Truck example shows need to consider multi-pollutant benefits**
- **For example, transition to biofuels for GHG does not reduce engine NOx emissions**
- **Multi-pollutant view shows additional NOx strategies are needed to meet SIP requirements**



# **An Example of a Multi-Pollutant View: A New Perspective...**

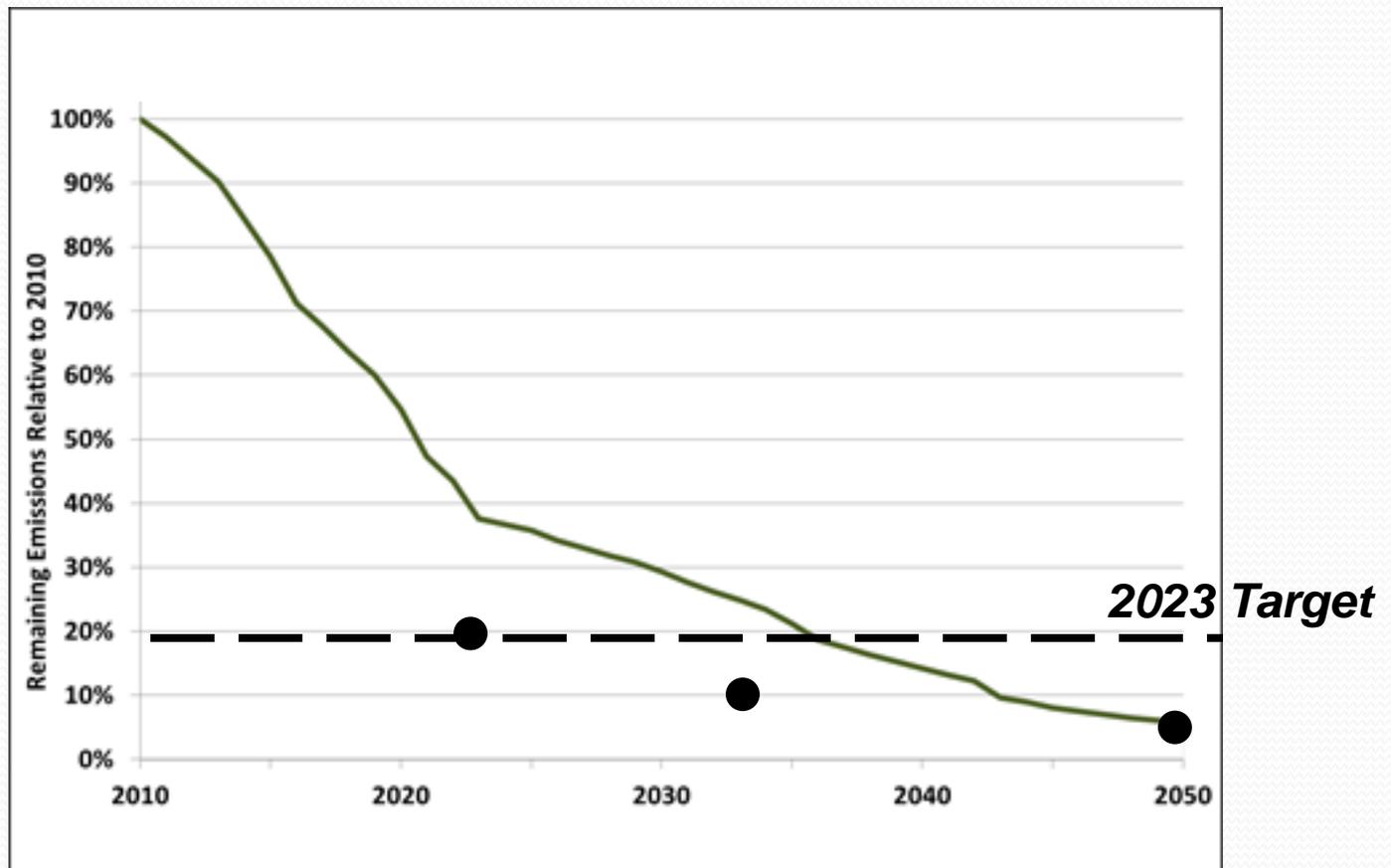
# Truck GHG Emissions

Statewide GHG Emissions, Heavy Duty Trucks

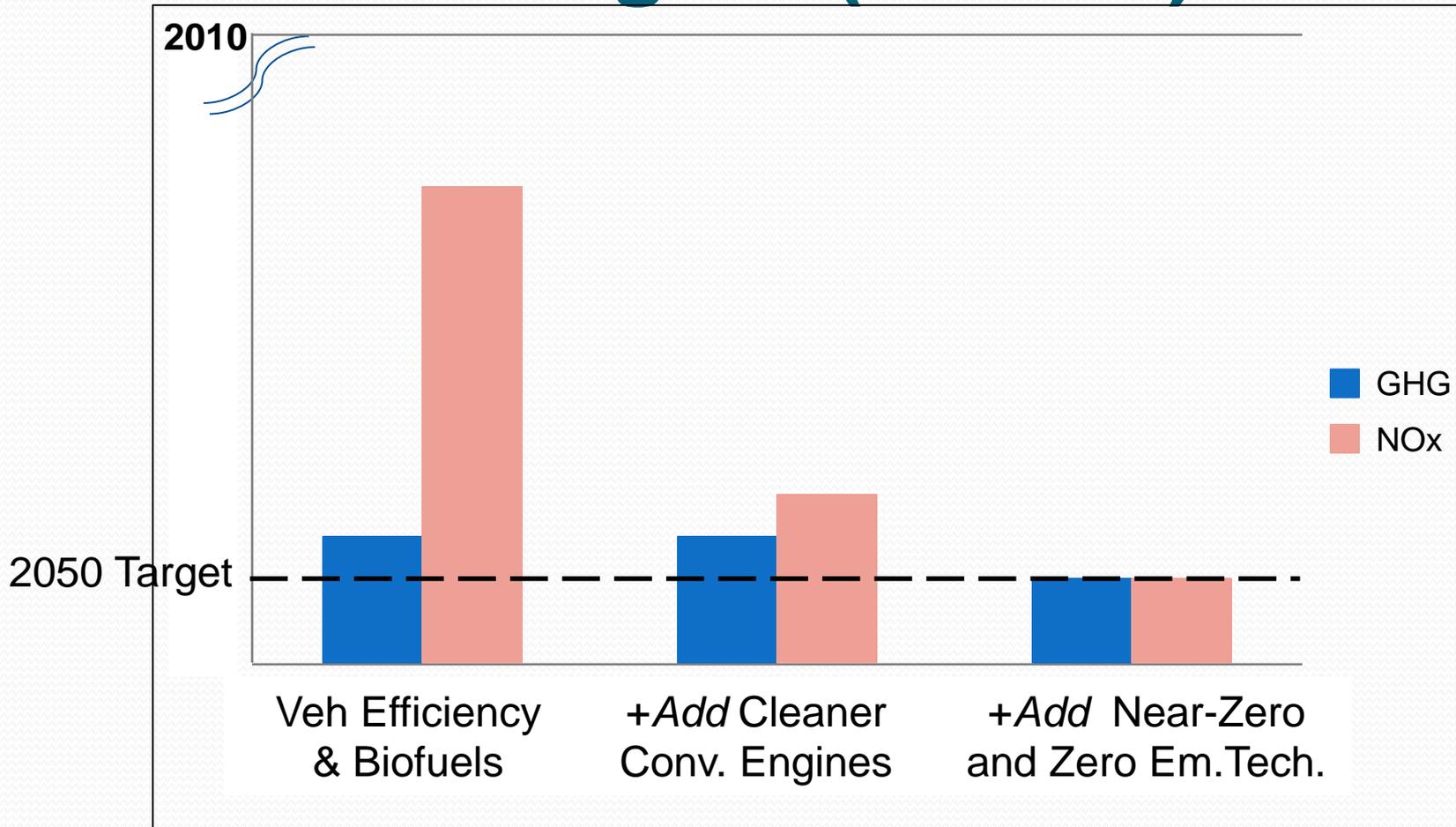


# Truck NOx Emissions

## South Coast NOx Emissions, Heavy Duty Trucks

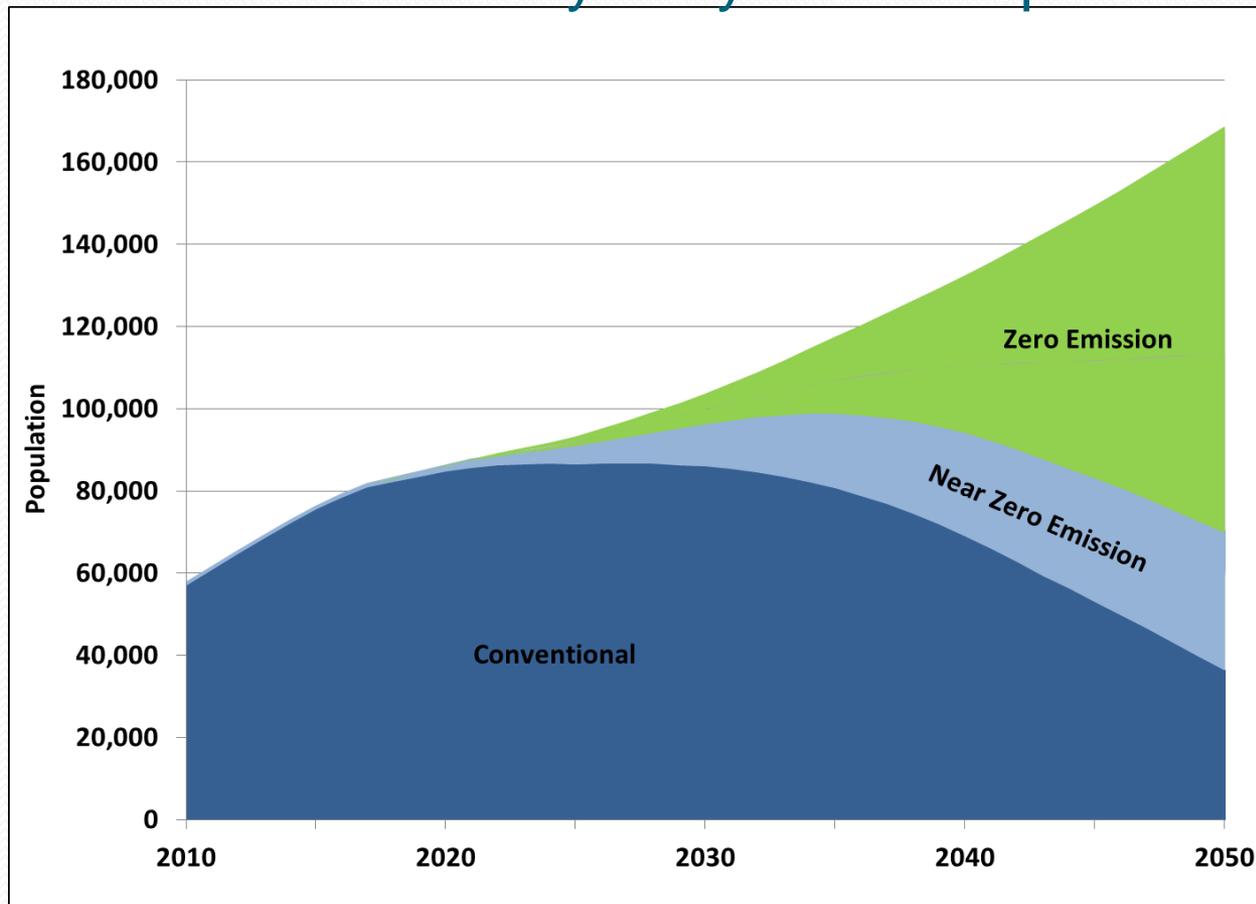


# Opportunity to Address Multiple Pollutant Targets (Trucks)



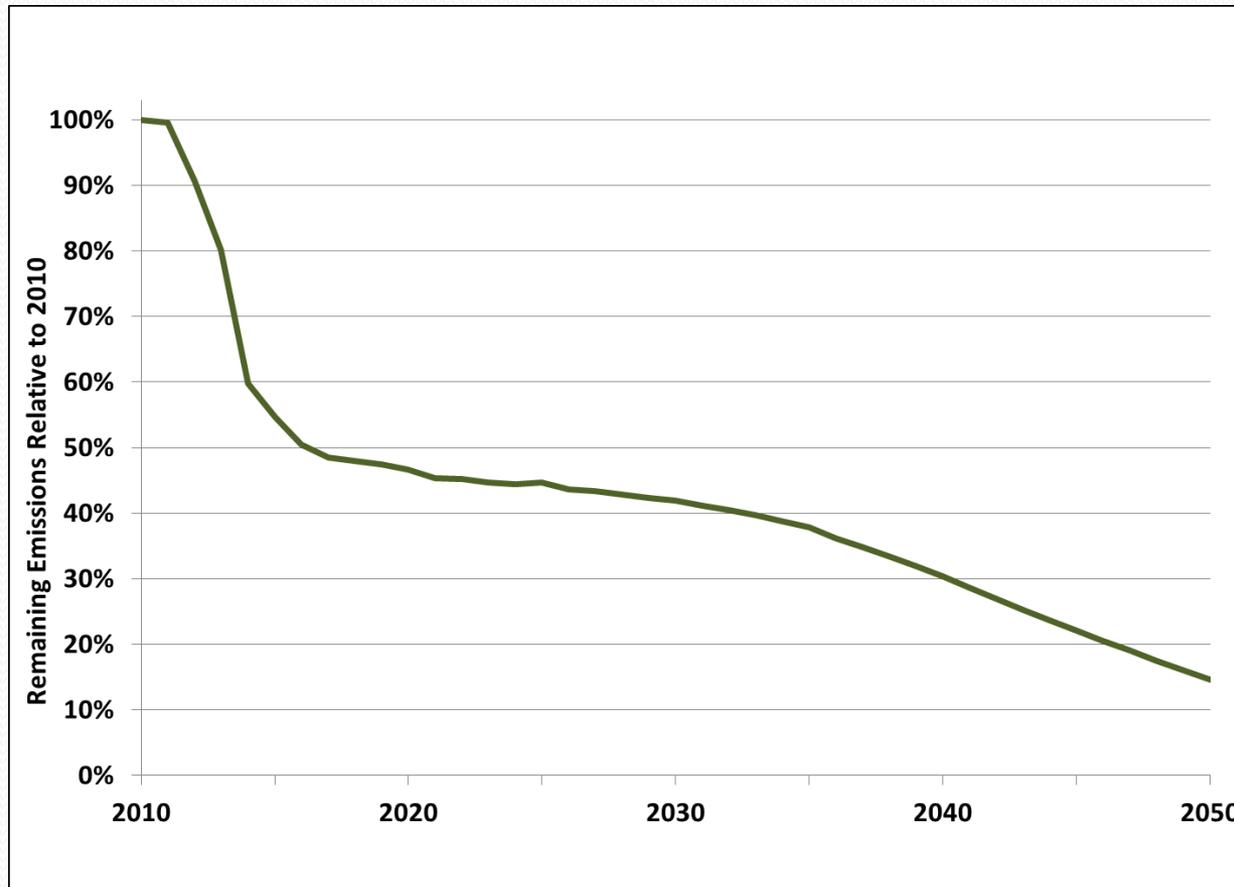
# Technology Transformation for Trucks

## South Coast Heavy Duty Truck Population



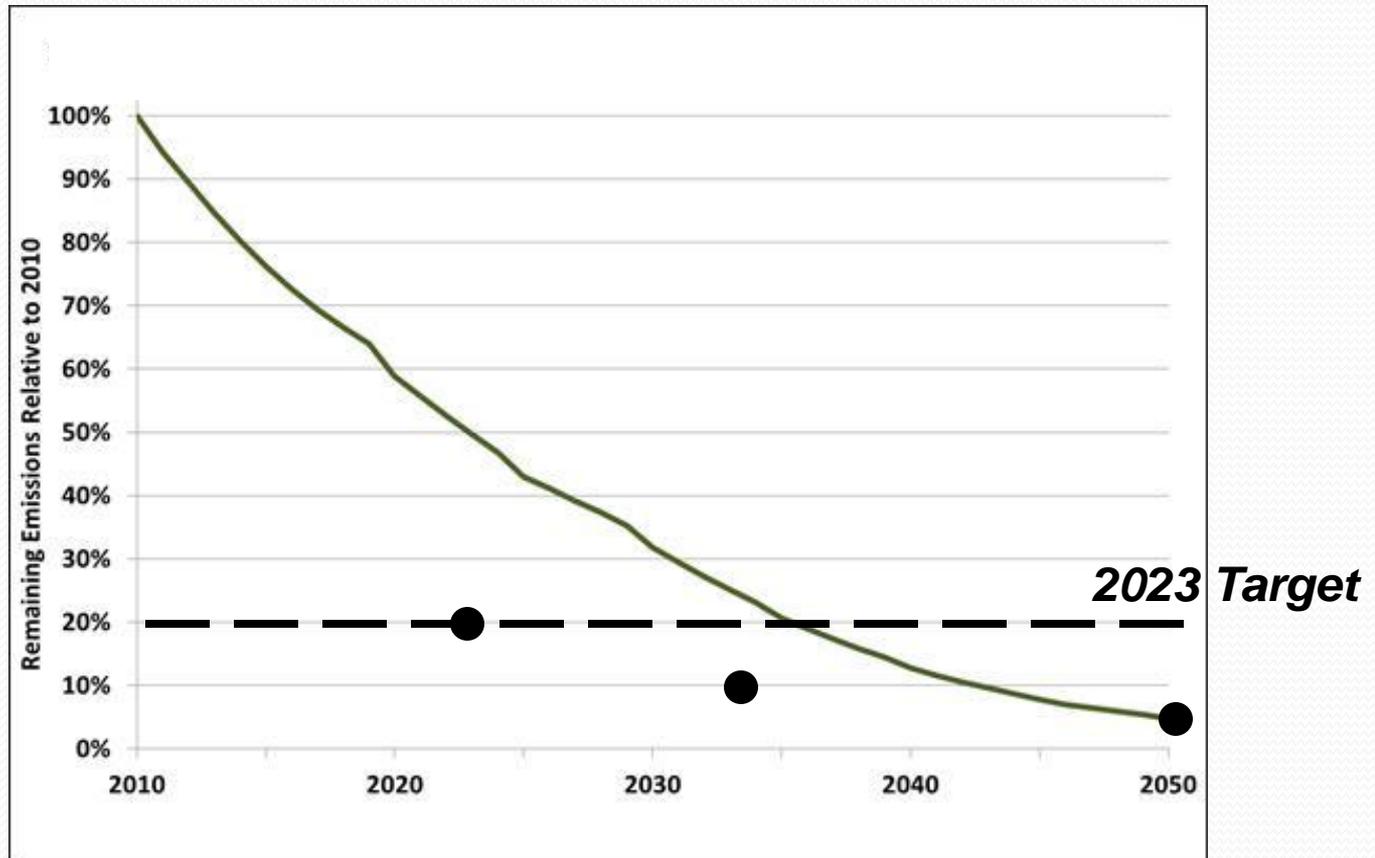
# Truck Diesel PM

South Coast PM<sub>2.5</sub> Tailpipe Emissions, Heavy Duty Trucks



# Car NOx Emissions

## South Coast NOx Emissions, Light Duty Vehicles



# Questions Moving Forward

- **How best to deploy technologies, fuels, and other strategies to meet both air quality and climate goals?**
- **How best to coordinate federal, state, and local activities to ensure success?**
- **What are the implications of air quality deadlines that precede greenhouse gas targets?**
- **What are the energy demands of air quality and climate strategies?**

# Next Steps

- **Workshops on Vision Framework**
- **Consideration of SIPs in 2012 & 2015**
- **Scoping Plan and Freight Transport Updates**