

# **2013 Update to AB 32 Scoping Plan**

**California Air Resources Board  
June/July 2013**

# Scoping Plan Overview

2013 Update to AB 32 Scoping Plan

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California Air Resources Board

# Overview

- Assembly Bill 32 Objectives and Provisions
- Elements of the 2013 Scoping Plan Update
- 2013 Scoping Plan Update Schedule
- Progress toward 2020 Goal
- Inventory Update
- Post 2020 Activities
- Critical Focus Area Discussions

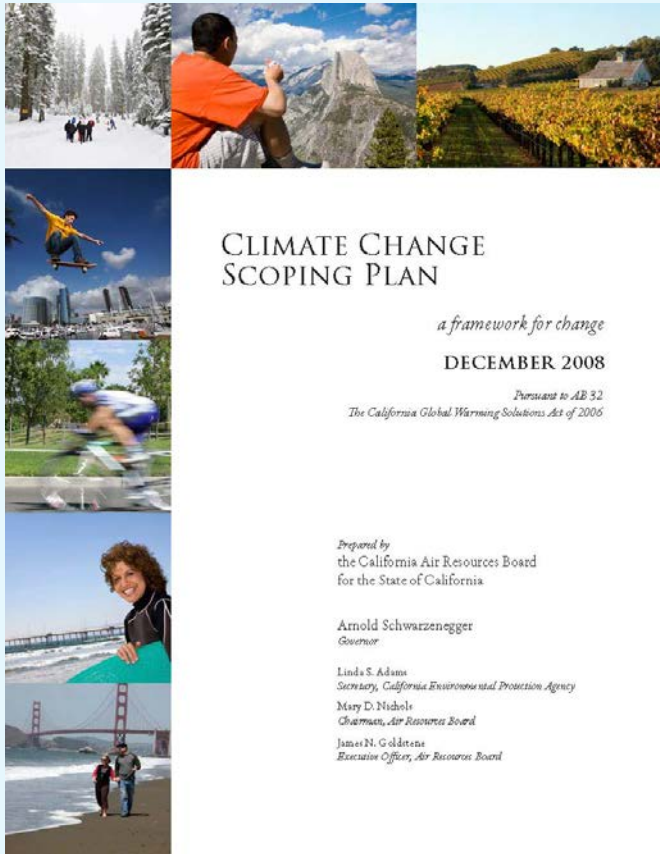
# AB 32 Objectives

- Develop a balanced approach to address climate change
- Improve air quality and public health
- Provide a consistent policy approach to drive investment in clean technology
- Provide a model for future national and international climate change efforts

# AB 32 Provisions

- Achieve 1990 emissions level by 2020
- Adopt greenhouse gas (GHG) emission reporting regulation
- Adopt discrete early action measures
- AB 32 Cost of Implementation Fee Regulation
- Collaborate with local, state and federal agencies, Western Climate Initiative, various advisory committees, and stakeholders
- Develop Scoping Plan and update it every five years
- Maintain and continue reductions in emissions of GHG beyond 2020

# 2008 Climate Change Scoping Plan



- Established new paradigm for climate mitigation
- First economy wide climate change plan
- Pioneered the concept of a market-based program supplemented with complementary measures
- Sector by sector approach
- Public outreach and education

# Elements of 2013 Scoping Plan Update

- Climate science update
- Progress toward 2020 goal
  - 2008 Scoping Plan achievements
  - Inventory update
  - Economic update
  - Co-benefits
- Potential targeted near term measures

## Elements of 2013 Scoping Plan Update (cont.)

- Post-2020 goals
  - 2050 Goal
  - Interim Progress Milestone
  - Coordination with Other Plans and Policies
  - Critical Focus Areas
  - Regional Overlay



# 2013 Scoping Plan Update Schedule

## Kickoff Workshop

- June 13

## Regional Workshops

- Diamond Bar (Los Angeles area) – June 26<sup>th</sup>
- Fresno – July 18<sup>th</sup>
- Bay Area – July 30<sup>th</sup>

## Preliminary draft Scoping Plan Update

- Late Summer

## Board Considers

- November 21-22

# Environmental Justice Committee

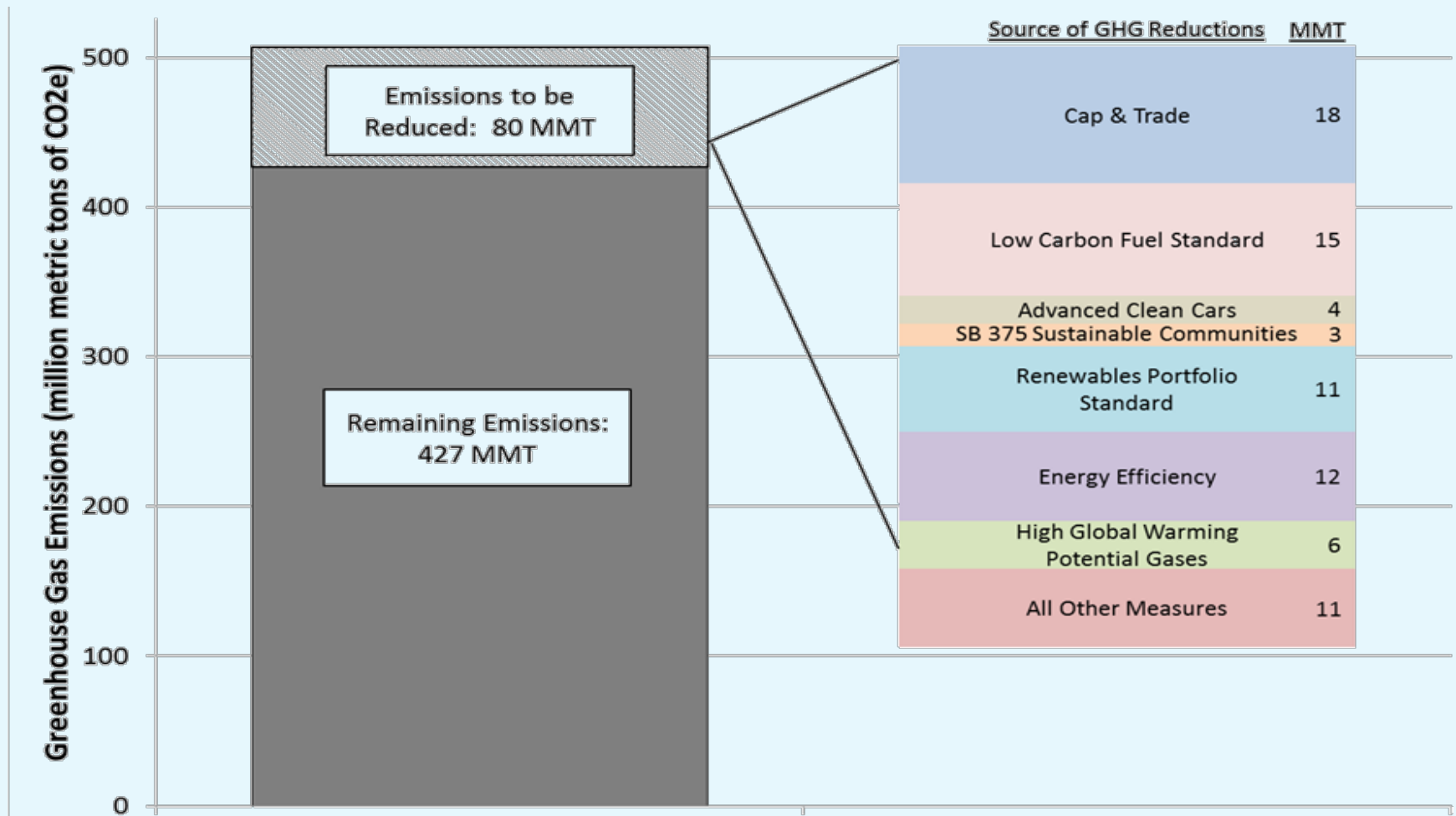
- ARB required to consult with EJAC on Scoping Plan
- Formed by Board in 2007 for 2008 Scoping Plan
- Re-convened by Board for 2013 Scoping Plan Update
- First meeting June 18th in Sacramento

# **Progress Toward 2020 Goal**



# 2008 Scoping Plan Achievements

## GHG Emissions and Reductions



# **2008 Scoping Plan Achievements**

## **Key ARB Measures**

- **Low Carbon Fuel Standard**
  - Requires a 10 percent reduction in carbon intensity of transportation fuels by 2020
- **Advanced Clean Cars**
  - Light-duty vehicles sold in 2025 will emit 75 percent less smog-forming pollution and 34 percent less GHG emissions
- **Cap-and-Trade Regulation**
  - Market-based regulatory program that reduces GHG emissions through a declining limit
- **SB 375 (Sustainable Communities Strategy)**
  - Integrated approach to regional transportation and land-use planning

# 2008 Scoping Plan Achievements

## Other ARB Measures

- Shore Power\*
- High Global Warming Potential Consumer Products\*
- Heavy-Duty Trucks\*
- Mobile Air Conditioners (“do-it-yourself” cans)\*
- Semiconductor Manufacturing\*
- SF6 Reductions from Non-Electrical sources\*
- Tire Pressure Regulation\*
- Landfill Methane Capture\*
- Energy Efficiency Audits for Industrial Sources
- SF6 Leak Reduction in Electrical Appliances
- Refrigerant Management Program

\* = Discrete Early Action Measure

# **2008 Scoping Plan Achievements**

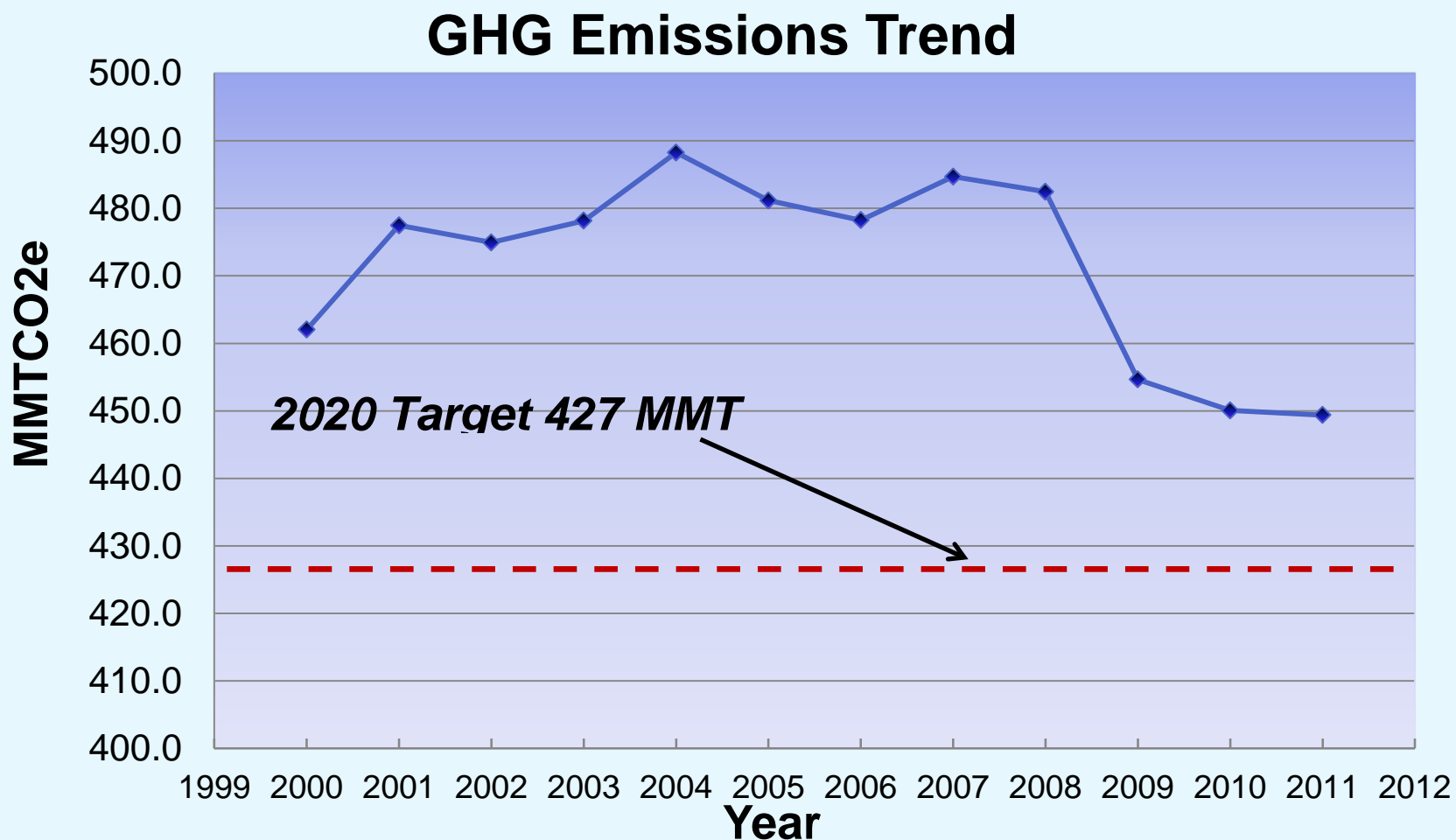
## **Other State Agency Measures**

- 33% Renewable Portfolio Standard
- Building and appliance energy efficiency standards
- California Solar Initiative
  - Solar hot water heaters
  - Million Solar Roofs
- Water Efficiency
- Mandatory Commercial Recycling
- High Speed Rail

# Inventory Update

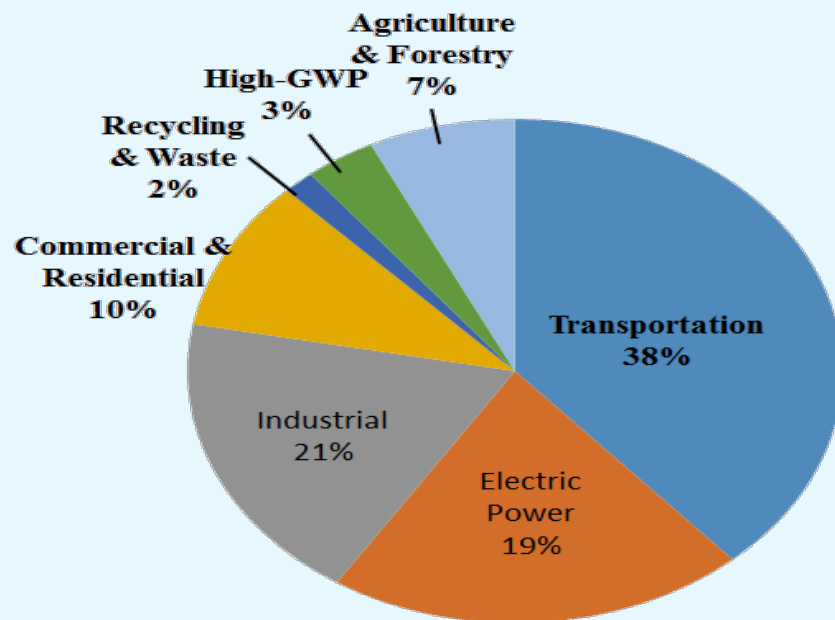


# CA GHG Emissions 2000-2011



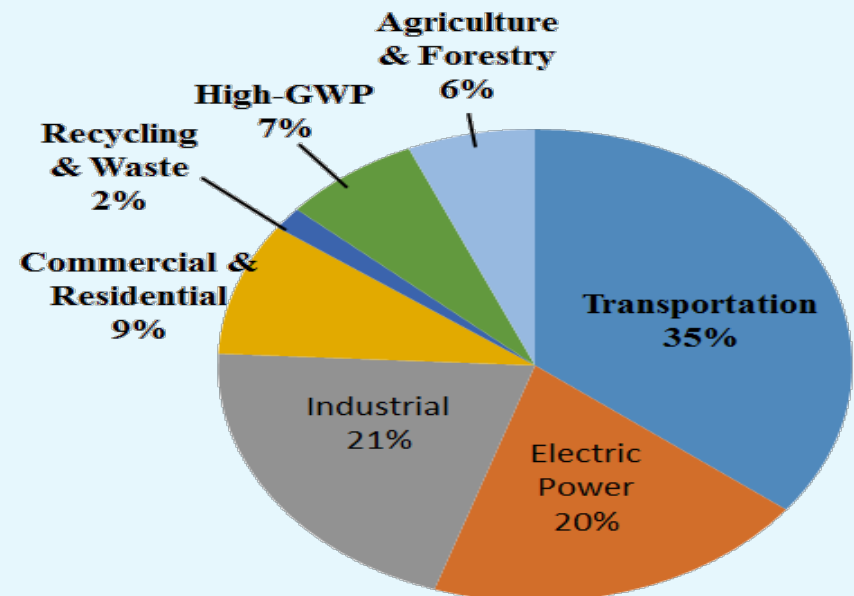
# California Greenhouse Gas Emissions By Sector

**Year 2011**



**449**  
**MMTCO<sub>2</sub>e**

**Year 2020**



**427**  
**MMTCO<sub>2</sub>e**

# **Post-2020 Activities**

# Coordination with Other Plans and Policies

- Governor's Environmental Goals and Policies
- Climate Adaptation Strategies
- 2013 Zero Emission Vehicle Plan
- State Implementation Plan
- Vision 2050
- Sustainable Communities Strategies
- Sustainable Freight Strategy
- Integrated Energy Policy
- Department of Water Resources Climate Action Plan
- Caltrans Blueprint

# Elements of Post 2020 Strategy

- Focus Areas
  - Energy (generation, transmission, and efficiency)
  - Transportation (fuels, infrastructure, and land use)
  - Agriculture
  - Water
  - Waste
  - Natural and Working Lands
- Sectors are unique and overlap one another
- Sectors may have competing objectives
- Role of Cap-and-Trade post-2020

# Cap-and-Trade Post 2020

- ARB envisions Cap-and-Trade continuing beyond 2020
- Cap-and-Trade is an important part of Post-2020 climate change strategy
- Program specifics including the cap level must be defined considering many factors
  - Complementary policies
  - Uncapped sector measures
  - Long term climate change goals

# Questions/Comments

Scoping Plan Overview

# Regional Public Workshop

## 2013 Update to AB 32 Scoping Plan



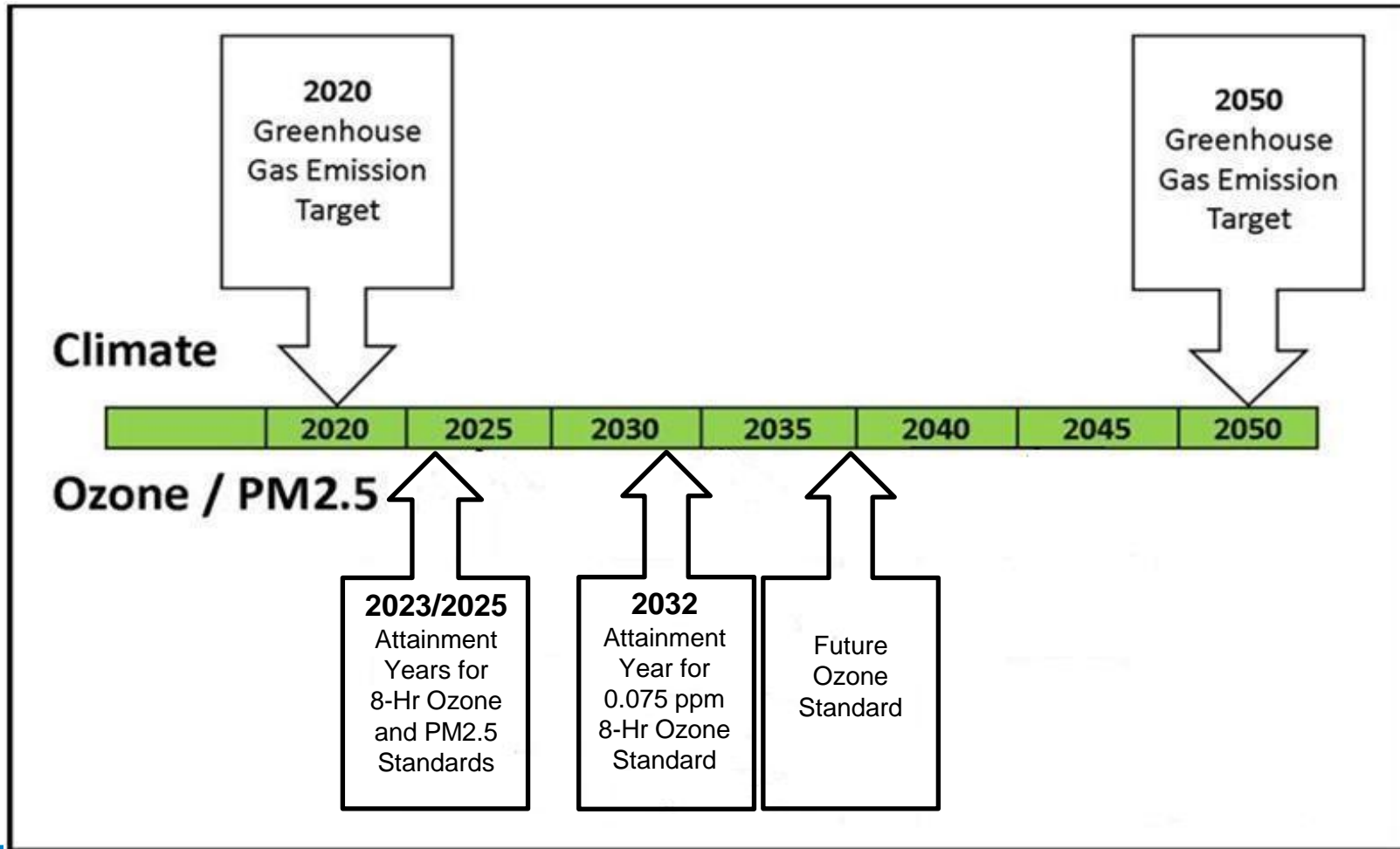
South Coast  
Air Quality Management District



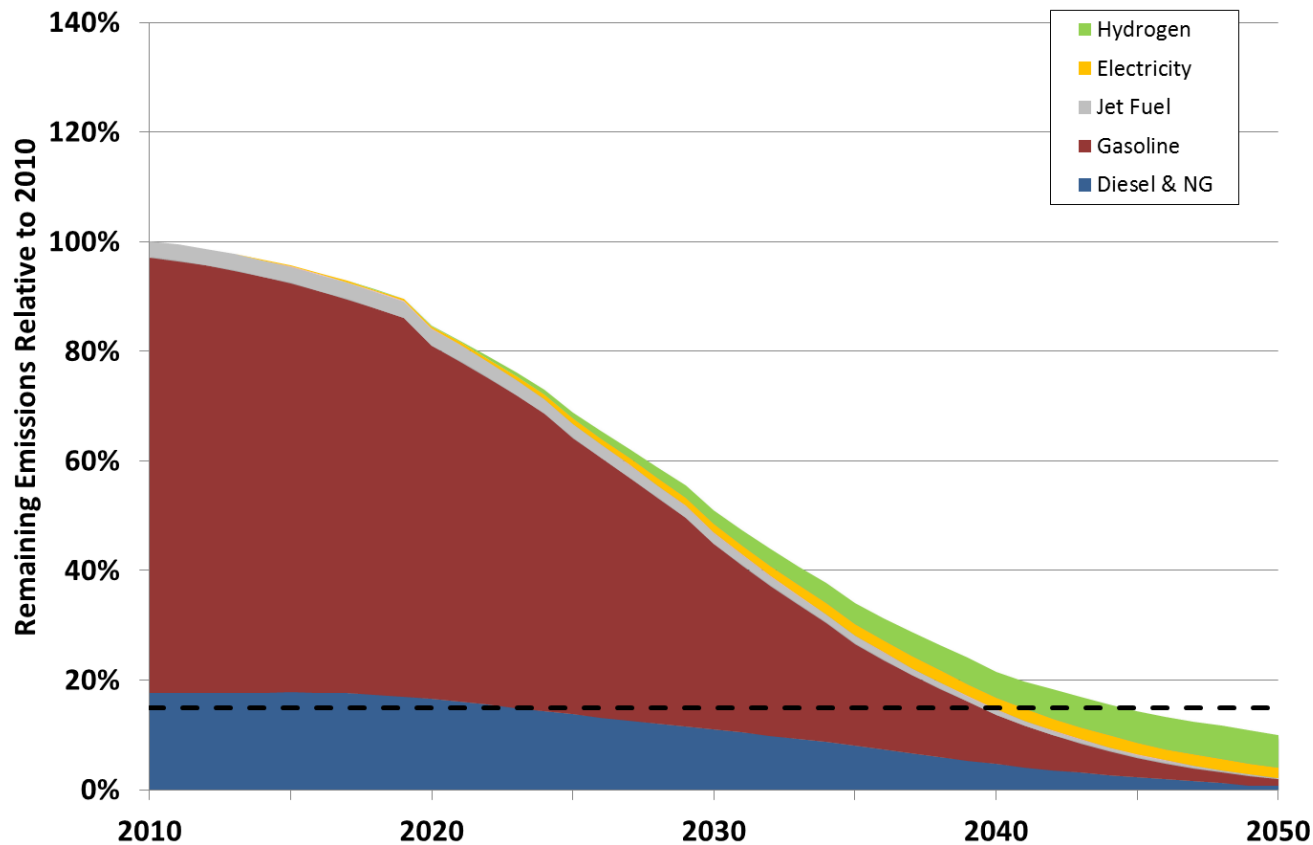
Southern California  
Association of Governments



# Air Quality Attainment Dates/ Climate Goals

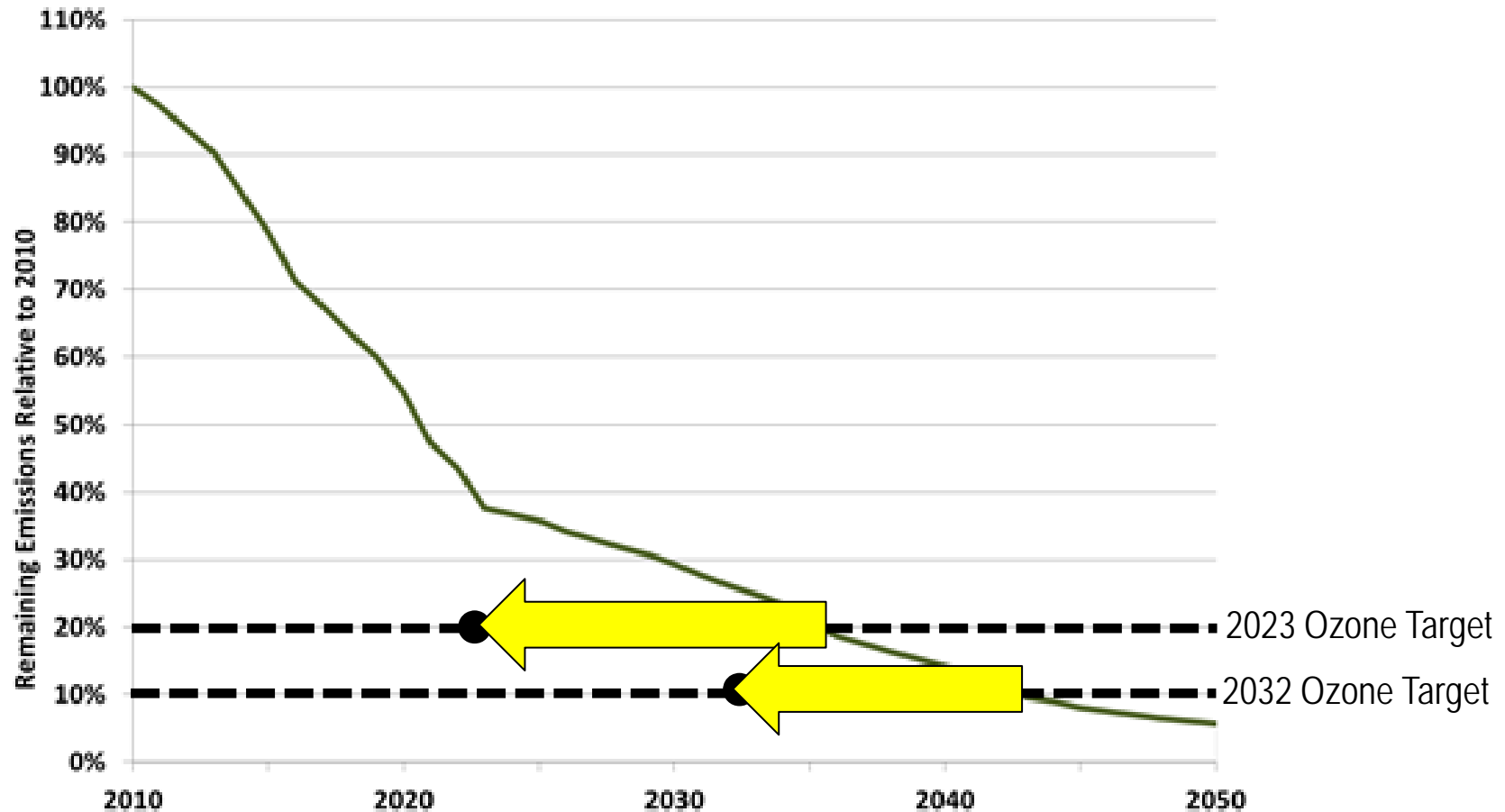


# A Vision for Clean Air: Statewide CO2 Emissions from All Sectors



# Examples Illustrating Process

## *Heavy-Duty Truck Scenario – South Coast NO<sub>x</sub> Emissions*



# 2015 Air Quality Management Plan

- Primary Focus - 2008 8-Hr Ozone Attainment (by 2032)
- Consistency with Attainment of 1997 8-Hr Ozone Attainment and Recent 1-Hr Ozone Attainment Demonstration
- Maximize Co-Benefits with GHG Reductions
- Focus on Mobile Source NOx Reductions
- VOC Reductions Still Needed to Ensure All Subregions in Attainment (Air Toxics Co-Benefits)
- Linkages to Energy and Climate Goals



South Coast  
Air Quality Management District

California Environmental Protection Agency  
 **Air Resources Board**



Southern California  
Association of Governments

# Coordinated Air Quality and Climate Planning: *Key Concepts*

- Need for Technology Transformation
- Early Actions
- Cleaner Combustion
- Multiple Strategies
- Federal Action
- Efficiency Gains
- Energy Transformation



# Regional Public Workshop

## 2013 Update to AB 32 Scoping Plan

June 26, 2013



# Regional Public Workshop: 2013 Update to AB 32 Scoping Plan

## *SCAG 2012-2035 RTP/SCS*

- 2012-2035 RTP/SCS
  - Meets transportation conformity & exceeds GHG targets
  - Bottoms up process integrating land use & transportation
  - Sustainably accommodates future growth / high quality transit areas
  - Innovative transportation financing
  - Clean technology freight corridor



- Air Quality and Co-Benefit Outcomes
  - Exceeds SB375 per capita GHG reduction targets
  - Component of SIP commitments for health-based criteria pollutant standards
  - Positive outcomes: mobility, location efficiency, land consumption, energy, public health
  - Return on investment, job creation, household savings



- RTP/SCS Implementation Initiatives
  - Sustainability Call for Proposals
  - CEO Regional Sustainability Working Group
  - MOU with Los Angeles County Metro
  - Regional PEV Infrastructure Planning
  - Best Practices for Sustainable Development
  - Facilitate Local Implementation Tools

- Looking Ahead: 2016-2040 RTP/SCS
  - Bottoms up planning process
  - Enhanced technical tools for facilitating more effective scenario planning
  - Continued enhancement of performance measures
  - Collaboration with state and regional agencies

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