



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Climate Protection Program Staffing & Activities

Climate Protection Committee
March 19, 2015

Jean Roggenkamp
Deputy Air Pollution Control Officer



Climate Program Major Accomplishments

- \$7 million in grants for local climate protection
 - Jump-started local climate action plan development
 - Funded important game-changers:
 - BerkeleyFirst (Property-Assessed Clean Energy Programs)
 - Marin Clean Energy (Community Choice Aggregation)
 - \$4 million to local energy efficiency and renewables
- First GHG permit fee in nation
- First CEQA GHG thresholds & guidelines
- Regional summits on climate action
- Comprehensive support for local climate planning



Climate Program Major Accomplishments

- Support for local climate action planning
 - Funding for 20 local climate planning efforts
 - County-based trainings on GHG inventories
 - Guidance, data provision, technical assistance
 - Review and consultation on draft plans
 - Assistance in securing funding from state and federal agencies to implement plans

- Results: 58 adopted climate action plans – more than any other metropolitan area in the country



Climate Program Staffing

Increasing Staffing to Meet Demands of Growing Climate Program

- New Climate Protection Section
 - In Planning & Climate Protection Division
 - Manager + 7 staff
 - Planners, Engineers and AQ Specialists
- Interdisciplinary staff will coordinate with multiple Divisions/Sections to implement 10-Point Climate Work Program and other initiatives



Moving Forward

The Regional Climate Protection Strategy: A New Planning Approach for the Air District

- Focus on long-range goal (80% below 1990 by 2050)
- Economic sector-based GHG analysis
 - In-depth look at Bay Area GHG emissions and trends
 - Broad exploration of GHG reduction opportunities
 - Collaboration with board range of expert stakeholders
 - Align Air District priorities with AB 32 Scoping Plan
- Long range strategic planning
 - Identify GHG emission reduction strategies
 - Identify appropriate roles for Air District



Moving Forward

Climate Initiatives

- Initial Rule-making
 - Reduce black carbon from back-up generators
 - Reduce methane from capped oil and gas wells
 - Reduce methane from landfills, composting
- Further assistance to local governments
 - Connecting Cap & Trade funds with local climate action plan implementation efforts
 - Support EV planning and infrastructure
 - Off-site mitigation opportunities through the CAPCOA GHG Reduction Exchange
- Methane measurements inform inventory, rule-making
- Coordinate w/state & regional agencies (AB 32, SCS)



Update on

ARB's Climate Change Programs

BAAQMD CPC Meeting – March 19, 2015

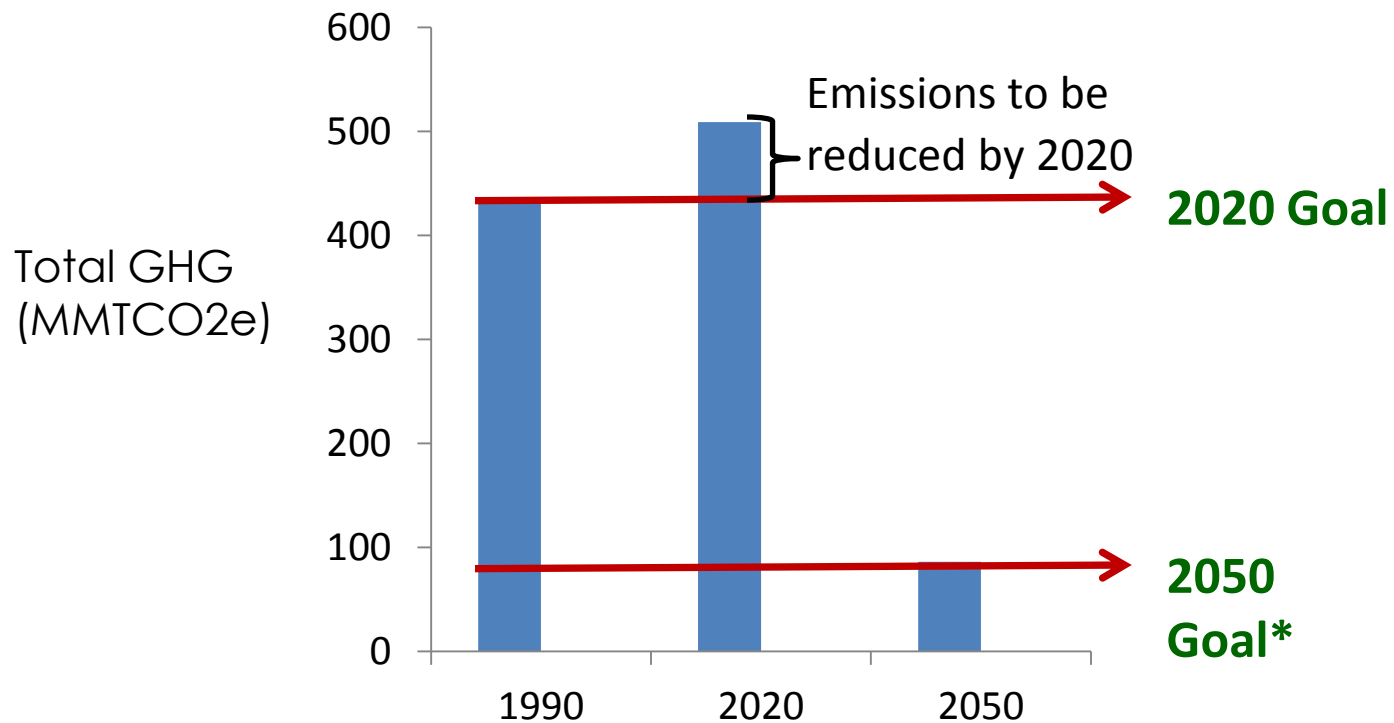
California Environmental Protection Agency

 **Air Resources Board**

AB 32 Requirements

- Achieve 1990 greenhouse gas (GHG) emissions level by 2020
- Continue GHG reductions beyond 2020
- Adopt GHG emissions reporting regulation
- Adopt discrete early action measures
- Develop Scoping Plan and update it every five years
- Authority to adopt a schedule of fees

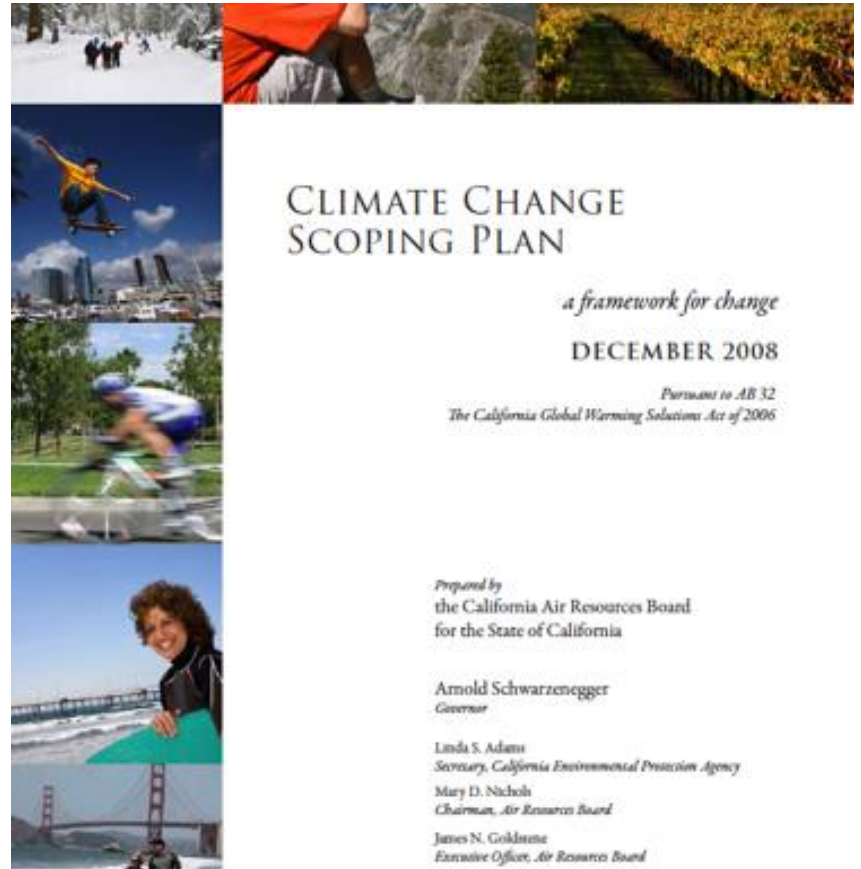
GHG Emissions Reduction Goals



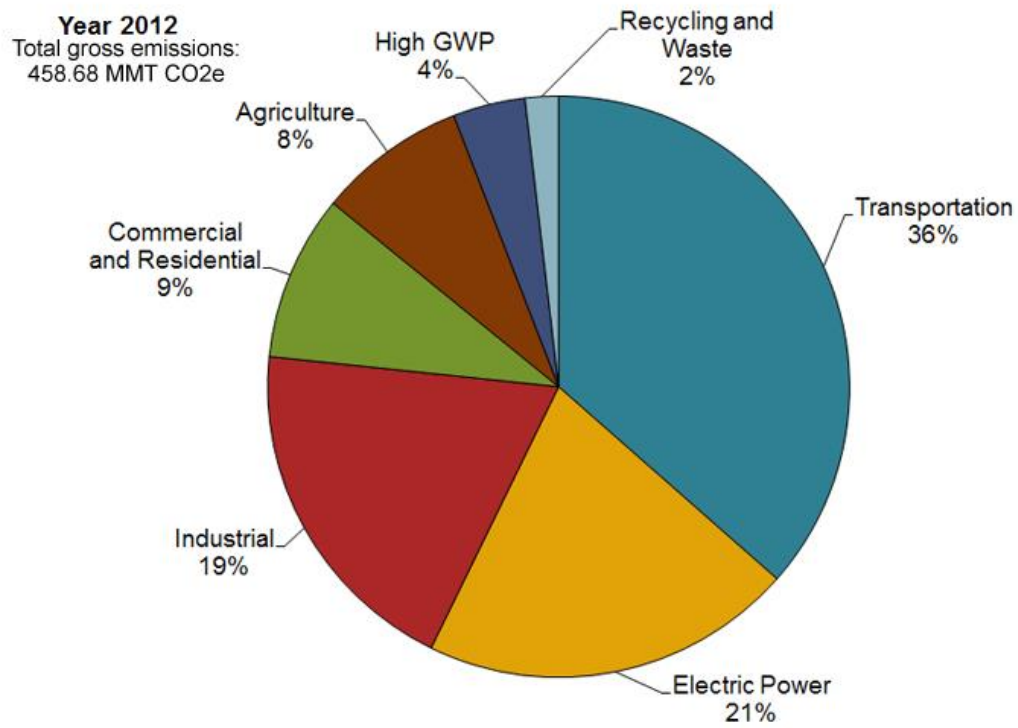
* Executive Orders S-3-05 and B-16-2012

Initial Scoping Plan

- Outlines State's strategy to achieve 2020 GHG limit
- Built on a balanced mix of strategies



GHG Emissions by Sector



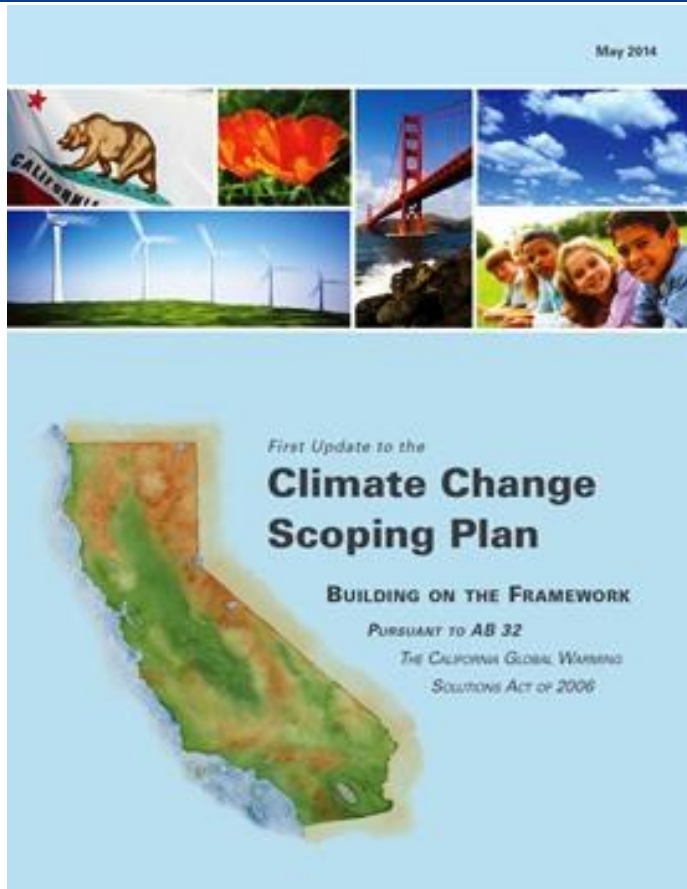
Initial Scoping Plan – Key Measures

- Advanced Clean Cars
- SB 375 (Sustainable Communities Strategy)
- Low Carbon Fuel Standard
- 33% Renewable Portfolio Standard
- Building and Appliance Energy Efficiency Standards
- Refrigerant Management Program
- Mandatory Commercial Recycling
- Cap-and-Trade Regulation

Cap-and-Trade Program

- “Cap” limits total GHG emissions, regulated entities “trade” (buy and sell) allowances
- Cap-and-Trade Covers:
 - Electricity generation and imports
 - Large industrial sources
 - Residential and commercial use of natural gas (began 1/1/15)
 - Transportation fuels (began 1/1/15)
- ARB is partnering with air districts on Adaptive Management Program to evaluate Cap-and-Trade program impacts on covered stationary source emissions in communities
- Auction proceeds to be spent to further the purposes of AB 32
 - Per Senate Bill 535, EJ communities will benefit directly from Cap-and-Trade auction proceeds

Scoping Plan Update



- First update approved in May 2014
- Affirms California is on track to meet 2020 goal
- Underscores need to accelerate GHG reductions
- Recommends establishing mid-term Statewide GHG emissions reduction target
- Identifies recommended actions, lead agencies, and due dates for nine key sectors

Governor's Climate Goals

- New goals set in State of the State Address
- By 2030:
 - Increase renewable electricity by 50 percent
 - Double energy efficiency of existing buildings and make heating fuels cleaner
 - Reduce petroleum use in cars and trucks by 50 percent
 - Reduce methane, black carbon, and other potent pollutants (short-lived climate pollutants)
 - Increase carbon sequestration in farms and rangelands, forests and wetlands

Local Government Actions for Climate Change

- As detailed in the Scoping Plan Update, local governments have initiated efforts to reduce GHG emissions by:
 - Upgrading vehicle fleets
 - Retrofitting government buildings and streetlights
 - Purchasing greener products
 - Implementing waste-reduction policies
 - Adopting more sustainable codes, standards, and general plan improvements to reduce GHG emissions
 - Implementing SB 375 (Sustainable Communities Strategy)

Cool California



- Online Resource
- Local Government Toolkit
- Climate Action Planning Guidance and Tools
- Recently released tools:
 - Vehicle Miles Traveled Impact Tool
 - Land Use and Residential Energy Tool

BAAQMD's Climate Initiatives

- For a decade, BAAQMD has shown leadership with climate-related initiatives

Recent Efforts:

- Adoption of GHG reduction goals, Regional Climate Protection Strategy, and 10-Point Climate Action Work Program
- Regional Initiatives
 - Spare the Air
 - Vital Signs – Innovative monitoring website

BAAQMD's Climate Initiatives

- Plug-in Electric Vehicle Rebate Program
 - Information clearinghouse providing information about plug-in electric vehicles
- Commuter Benefits Program
 - Requires employers with 50 or more full-time employees to provide commuter benefits to employees
- BAAQMD Community Portal website
 - Community actions/participation
 - Community Public Comment Opportunities
- Assisting with implementation of ARB's Refrigerant Management Program to mitigate high-global warming GHG emissions from large commercial & industrial refrigeration systems

Opportunities for Local and Regional Action



Opportunities for Local and Regional Action

- Transportation
 - Clean vehicle incentives
 - Clean vehicle infrastructure
 - Biofuel incentives
 - Sustainable Communities
- Energy
 - Local building codes
 - Energy efficiency programs
 - Water conservation efficiency
 - Renewable energy incentives
 - Fuel cell deployment
- Commercial Refrigeration
 - Incentivize adoption of low-GWP Refrigerant Systems
- Recycling and Waste
 - Capture waste methane for renewable fuel