

UPDATE ON CARB ACTIVITIES

MEETING WITH THE CALIFORNIA DESERT AIR WORKING GROUP

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Executive Officer
California Air Resources Board

November 7, 2018

Outline

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- CARB Priorities
- Community Air Protection Program
- Progress on Air Quality and Climate
- Rulemaking Activities
- Expanded Funding
- Looking Forward

CARB Priorities

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- Establishing a community-focused framework for air protection
- Meeting California's air quality and climate goals
- Plans for cleaner transportation and low-carbon fuels
- Transforming the freight system and reducing localized health impacts



AB 617

Community Air Protection Program

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- Groundbreaking approach for improving air quality
- Establishes community-focused framework
 - Enhanced community level information
 - Community-specific emission reduction programs
 - Emphasis on community participation
 - Focus on early actions
- CARB established the Office of Community Air Protection specifically to address these needs

AB 617 Program Elements

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PARTNERSHIPS
WITH COMMUNITIES



NEW STATEWIDE
STRATEGIES TO
REDUCE EMISSIONS



TARGETED
COMMUNITY
CLEAN AIR PLANS



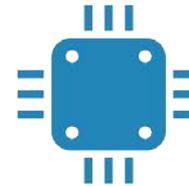
METRICS
TO TRACK &
REPORT PROGRESS



COLLABORATIONS
WITH LAND USE
& TRANSPORTATION
AGENCIES



CLEAN TECHNOLOGY
INCENTIVE INVESTMENTS



EXPANDED
AIR MONITORING



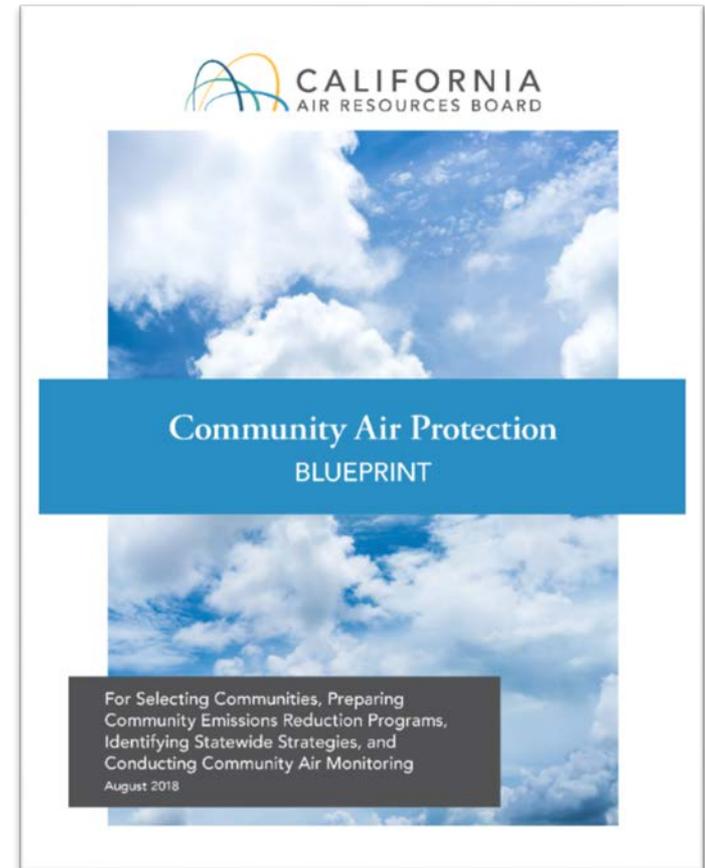
IMPROVED
DATA
ACCESSIBILITY

Blueprint

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Defines statewide strategies and sets requirements for:

- Public engagement and community partnerships
- Selecting communities
- Conducting community air monitoring
- Developing community emissions reduction programs



New Actions to Help Communities Statewide

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NEW REGULATIONS

Set new requirements for clean air technologies, coupled with enhanced enforcement tools.

NEW INCENTIVE GRANT FUNDING

Help purchase cleaner vehicles and equipment in heavily impacted communities.

NEW EXPOSURE REDUCTION RESOURCES AND TOOLS

Work with land use and transportation planning agencies to develop strategies to reduce emissions and exposure.

Year One Communities

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- Initial communities serve as statewide models
- Mix of communities representing different regions and sources
- Community Steering Committees will guide process



Forming Community Partnerships

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- Establish community steering committees
 - Community emissions reduction programs
 - Community air monitoring
- Collaborative effort involving air districts and community members
- Bring in local agencies, schools, health departments, and academics

Community Air Monitoring

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- Deploy community air monitoring systems in identified communities
- District and community-led activities
- Develop tools for enhanced accessibility of air quality data

Community Emissions Reduction Programs

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- Emission reduction measures
- Emission reduction targets
- Implementation schedule
- Enforcement plan

Best Available Retrofit Control Technology Implementation

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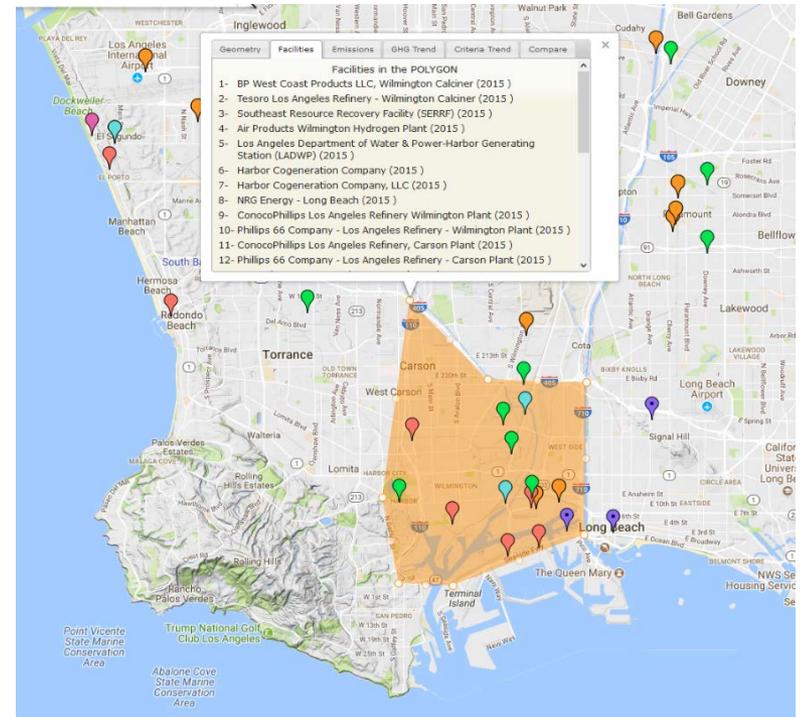
- Adopt expedited schedule for BARCT by January 2019
- Implementation by December 2023
- Support for State Strategy
- Maintain technology clearinghouse



Enhanced Emissions Reporting

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- Establish consistent statewide annual reporting system for point sources
- Support enhanced tracking and accessibility of emissions data
- Make data available through CARB's Pollution Mapping Tool

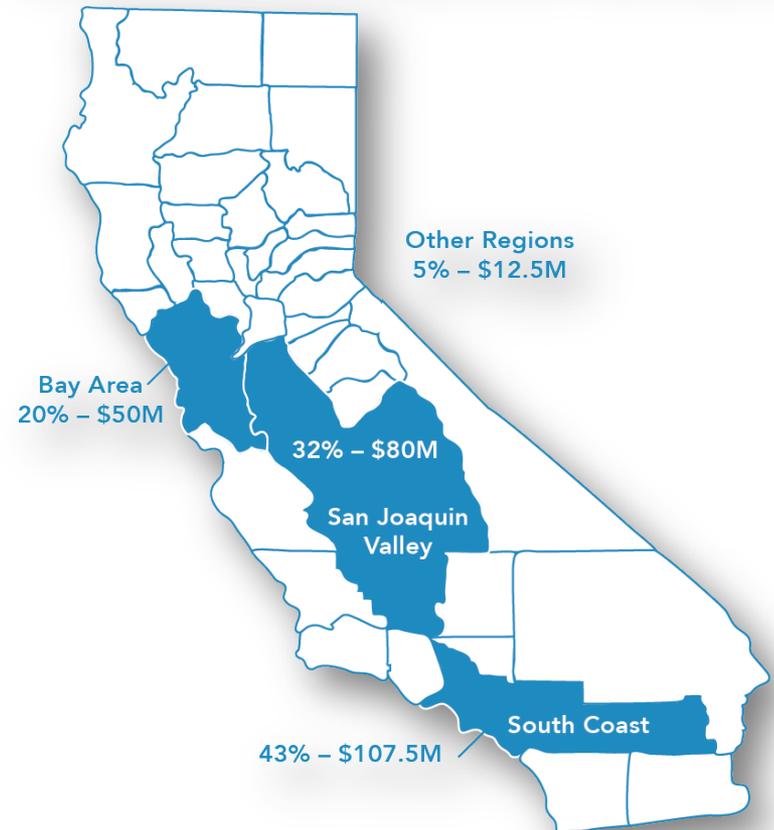


Early Action Incentive Funding

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- 2017-2018 State Budget
 - \$250 million in funding for early reductions from mobile sources
- 2018-2019 State Budget
 - Additional \$245 million in funding for both mobile and stationary sources
 - Projects must reflect community priorities

CLEAN TECHNOLOGY INCENTIVES – \$250 MILLION



Community Air Grants

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AB 617 Community Air Grant Recipients

May 2018



- \$10 million for 28 projects in year one
- New \$5 million solicitation this fiscal year
- Provide support for:
 - Community-operated air monitoring
 - Technical training and education
 - Action plans to reduce local toxic air pollution
 - Increasing residents' engagement

Upgrading CARB's Data Systems

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- Improved technology infrastructure to provide modern, effective data access to all stakeholders:
 - **Air Quality Monitoring** – AQ-View web portal for displaying real-time air quality monitoring data (July 2019)
 - **Technology Clearinghouse** - Provide information on existing and future control technologies and associated emissions limits (July 2019)
 - **Integrated Emission Inventory** – Enhanced data reporting and accessibility of all emissions data to inform plans and track progress (July 2020)

Looking Beyond the First Year

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- Ongoing work to implement near-term actions to help communities statewide

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- Initial communities will be models for action throughout California

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- Support community capacity building

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- Review progress periodically

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- Board consideration of additional communities

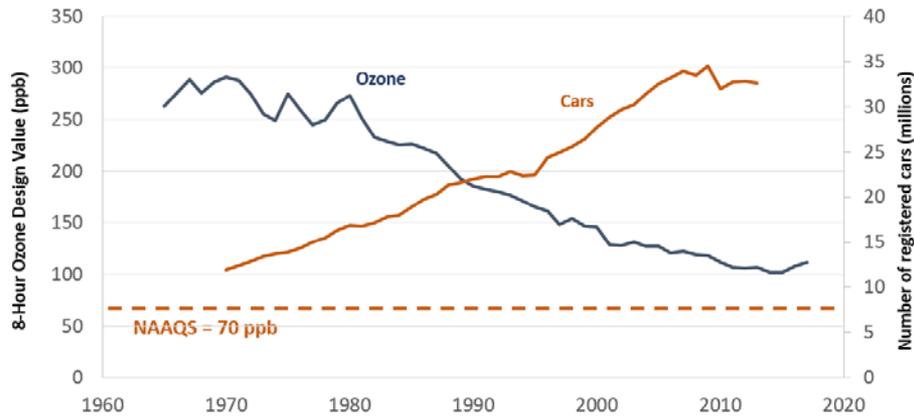
Air Quality and Climate

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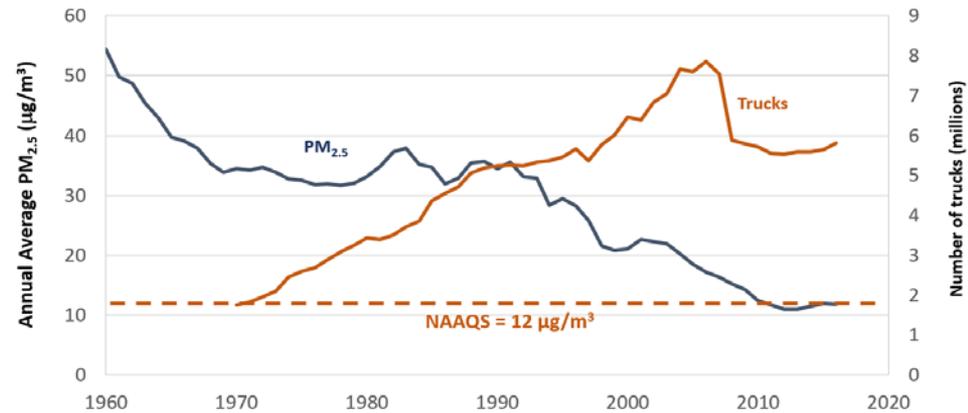


Five Decades of Air Quality Successes

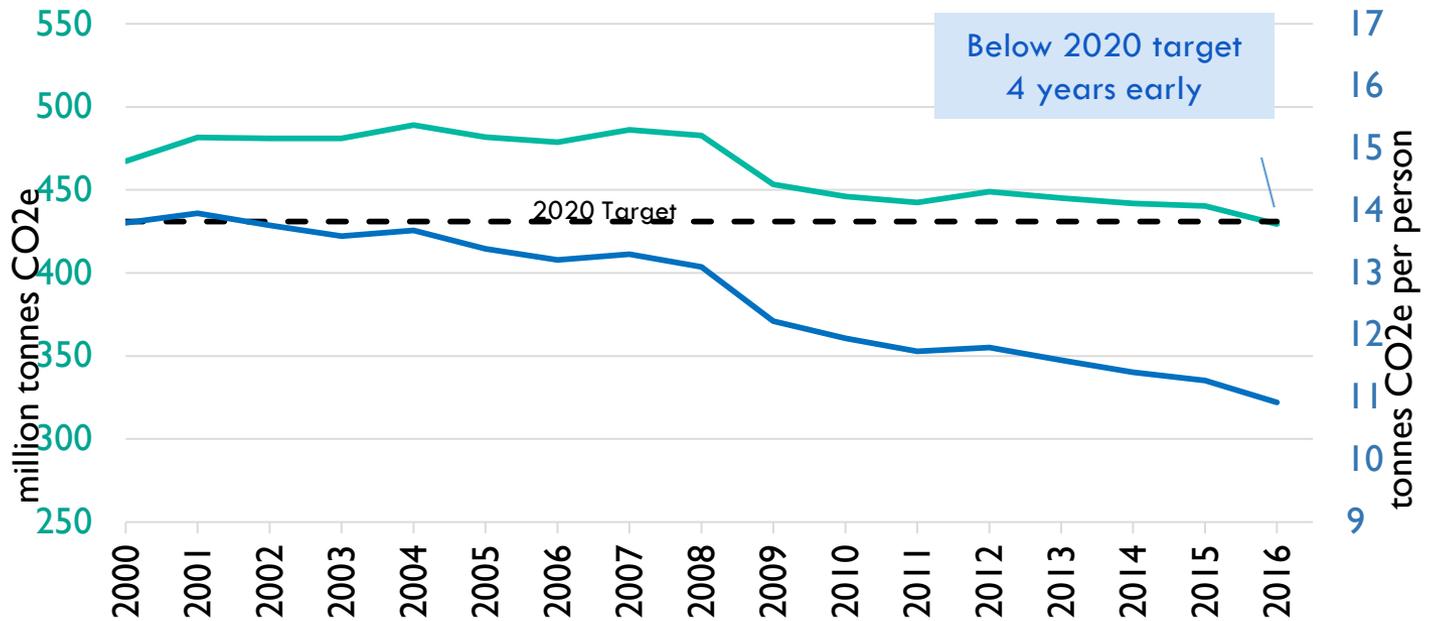
Ozone in Los Angeles



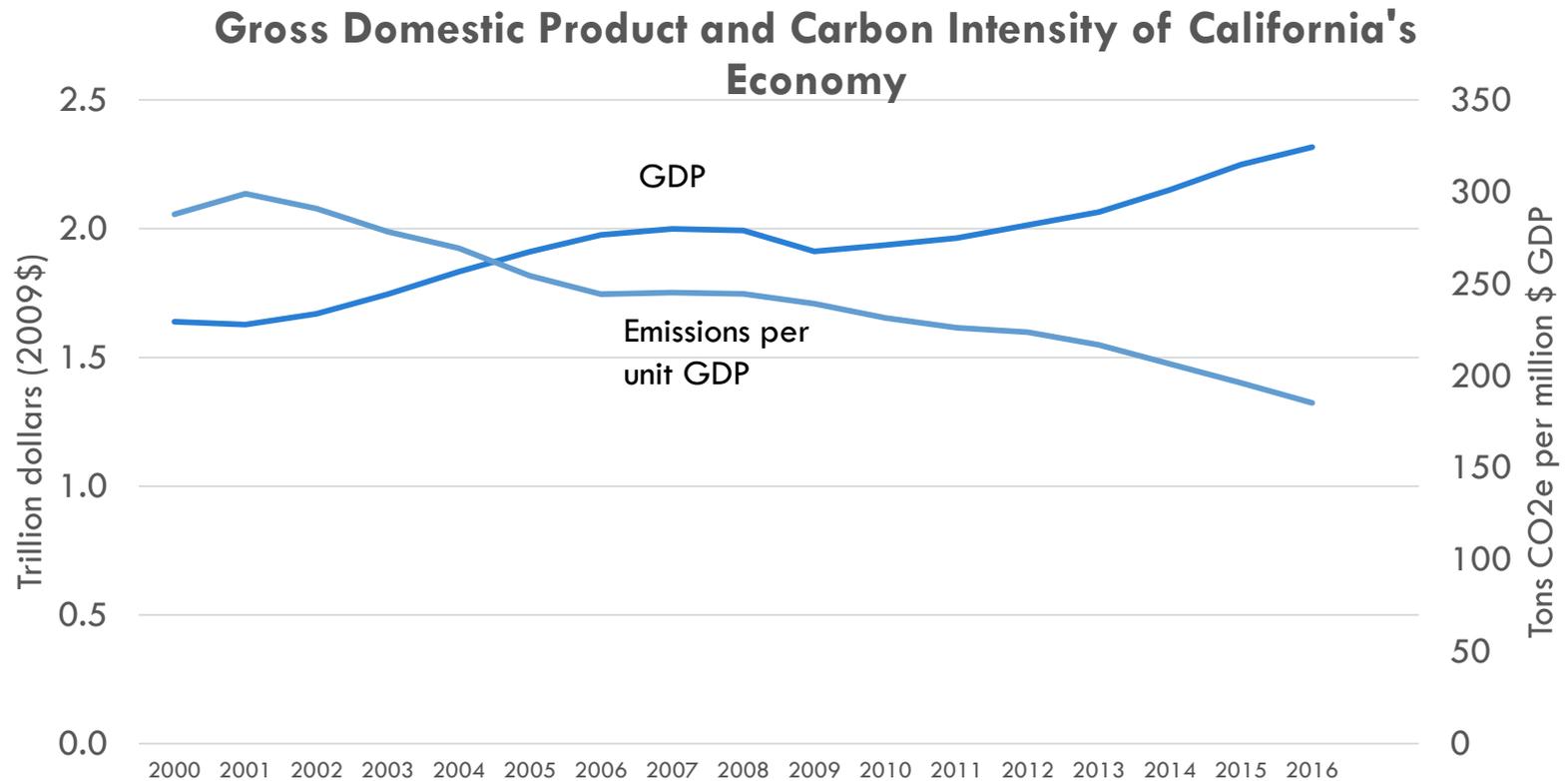
Fine Particles (PM_{2.5}) in Los Angeles



A Decade of Greenhouse Gas Success



California's Economy is Becoming Less Carbon Intensive

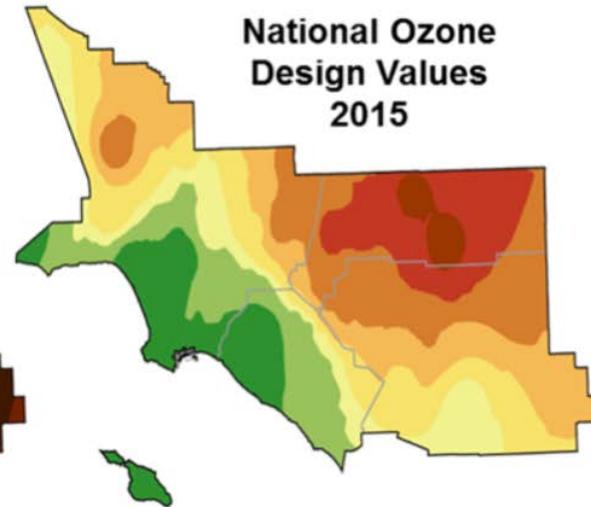
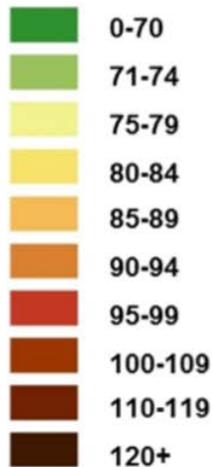


Air Quality Challenges Still Ahead

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South Coast Ozone Severity

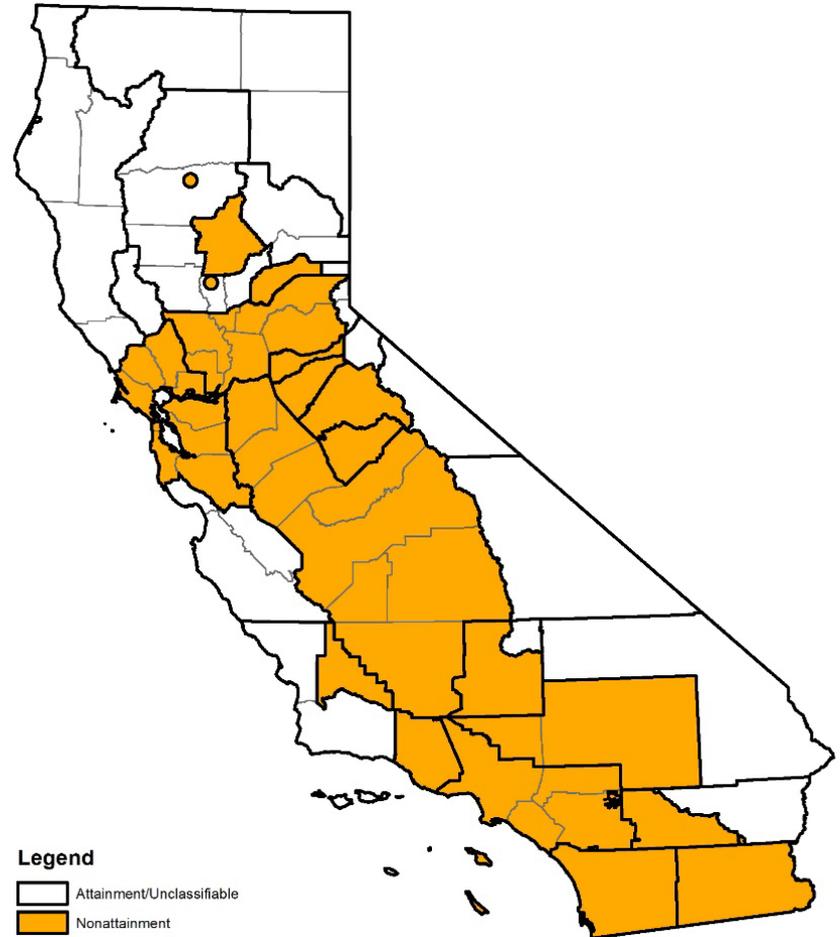
Design Value (ppb)



SIP Planning Efforts for New Ozone Standard

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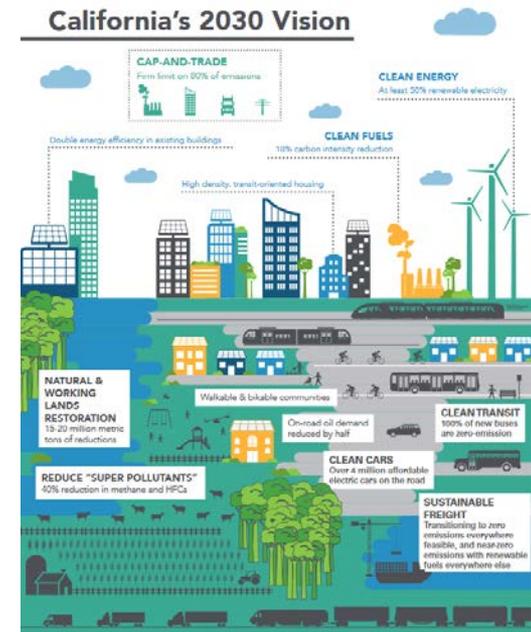
- EPA designated areas as nonattainment for the 70 ppb 8-hour ozone standard
- 19 nonattainment areas total in California
- SIPs due in 2020 and 2021



Forging Ahead on Meeting Climate Goals

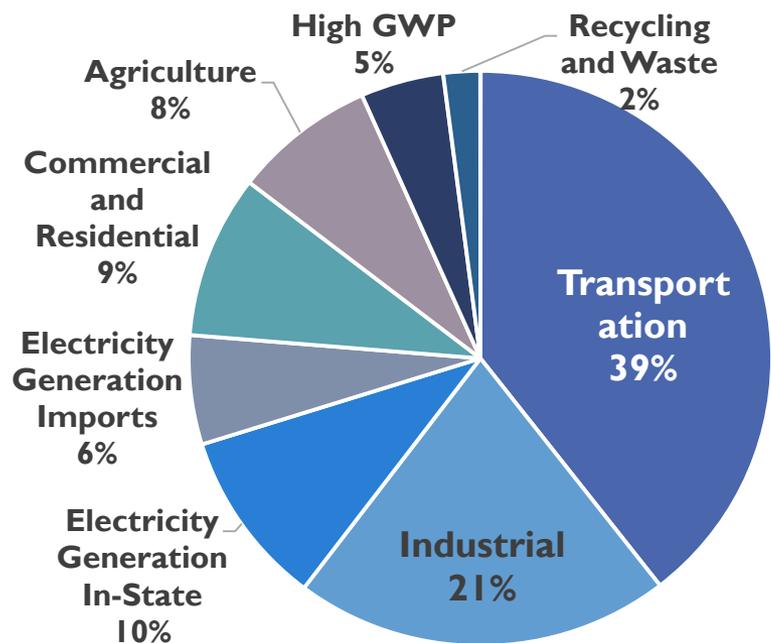
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- Implement the Scoping Plan
 - Cap-and-Trade Program – amend to conform to AB 398
 - Low Carbon Fuel Standard – increase stringency
 - SB 350 Integrated Resource Plans for the Electricity Sector
 - Natural & Working Lands: implementation plan, inventory, and projections
- Short-Lived Climate Pollutant (SLCP)
- Update SB 375 regional GHG targets



Transportation Remains a Key Focus

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2016 Total CA Emissions: 429.4 MMTCO₂e

California is home to

NEARLY **50%**
OF THE ZEVs
IN THE U.S.



 **40%**
OF NORTH AMERICAN
CLEAN FUEL
INVESTMENTS

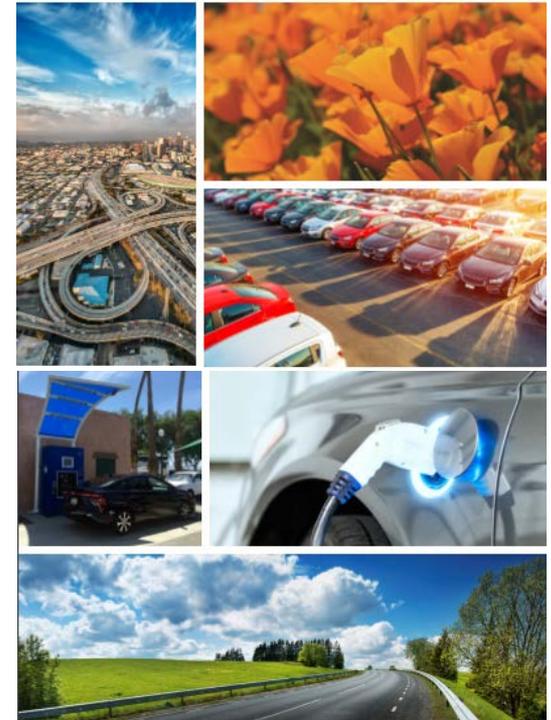
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90% OF TOTAL U.S. INVESTMENT IN
CLEAN TRANSPORTATION

Moving Ahead With Cleaner Vehicles and Low-Carbon Fuels

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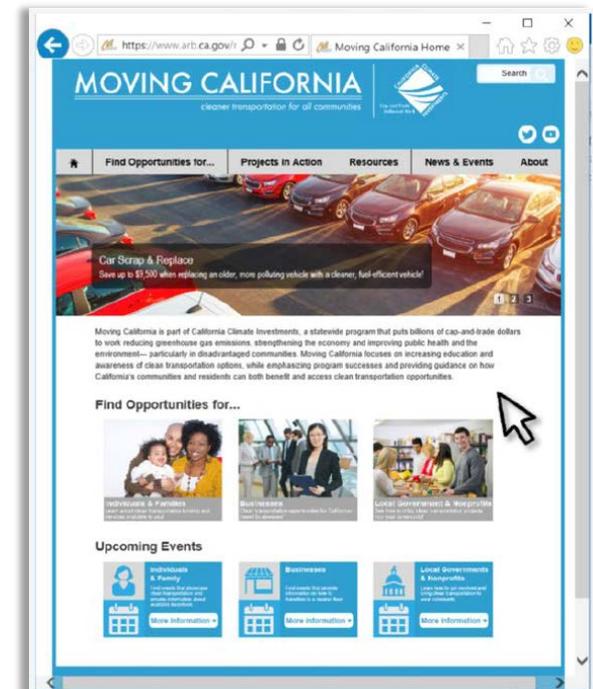
- Advanced Clean Cars II Regulation
- ZEV infrastructure
- Outreach and education for zero-emission-vehicle (ZEV) buyers
- Low Carbon Fuel Standard (LCFS)
- Low-NOx Heavy Duty Regulation
- Heavy Duty I/M
- Proposed Zero-Emission Heavy Duty Vehicle Regulations
- Ongoing investigation and enforcement



Expanded Funding

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- More than \$6.1 Billion California Climate Investments to date
- \$663 Million for advanced technology vehicles and freight equipment
- \$2.5 Million Funded for Supplemental Environmental projects
- \$295 Million in AB 617 funding for both stationary and mobile sources
- New 'Moving California' website highlights funding opportunities



Safeguarding California's Progress

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- Litigation and administrative advocacy to defend major federal initiatives
 - Federal Vehicle Programs
 - Clean Power Plan
 - Federal Ozone Standards
 - Methane Standards for Oil and Gas



Coordination with U.S. EPA

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- EPA Region 9
 - Working with local office on SIP issues
 - Providing information for SIP approvals
 - Effective collaboration ensures Clean Air Act process works
- EPA Headquarters
 - Addressing national rulemakings that are less health protective
 - Addressing EPA proposal on Advanced Clean Cars to withdraw California's waiver

Key Upcoming Board Items

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- November 2018
 - Scoping Plan Implementation Update
 - Natural Working Lands Implementation Plan Update
 - Tropical Forestry Standard
 - Climate Change Investment Plan Update
- December 2018/January 2019
 - Final hearing for amendments to Cap-and-Trade and Mandatory GHG Reporting
 - Proposed amendment for the reporting of criteria air pollutants and toxic air contaminants
 - Innovative clean transit
 - San Joaquin Valley PM2.5 SIP

Looking Forward

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- Continue increased community-focused efforts
- Expand air quality monitoring and emissions reporting efforts
- Continue integrated approach for achieving California's air quality and climate goals
- Develop and implement key strategies defined in this year's plans
- Work closely with our partners



CALIFORNIA
AIR RESOURCES BOARD