



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Spare the Air – Cool the Climate ***A Blueprint for Clean Air and Climate*** ***Protection in the Bay Area***

Sonoma Regional Climate Protection Authority
Board of Directors Meeting

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Air District Climate Protection Team



Critical Challenges

Climate Change

- The greatest common global challenge
- The biggest threat to our environment, economy, health and quality of life

Health Inequities

- Equal access to healthy air is a fundamental right that still eludes many Bay Area residents

This Plan focuses on strategies that will help us meet both of these challenges



What Is This Plan?

Multi-pollutant plan to update 2010 Clean Air Plan

A comprehensive strategy of 85 measures to:

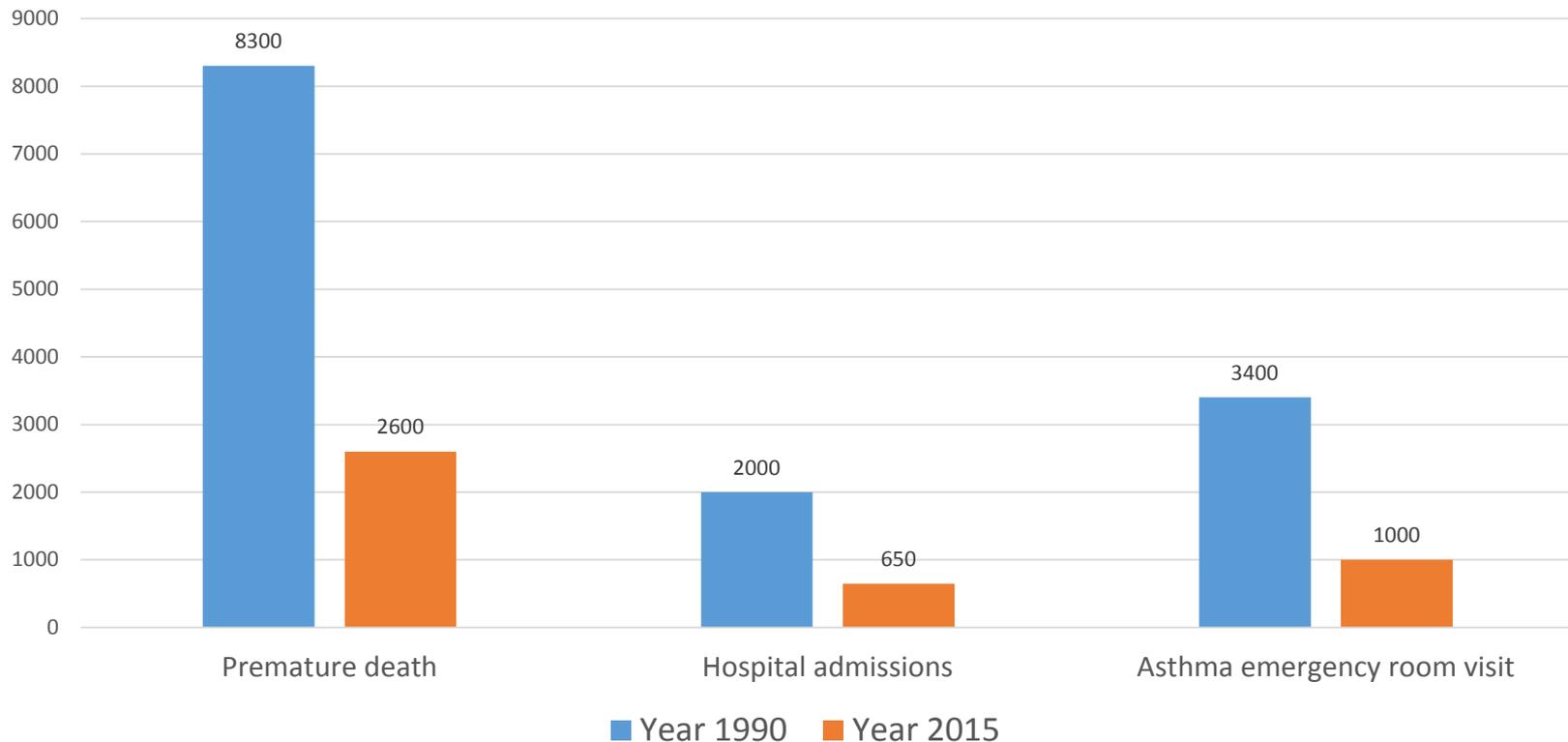
- reduce ozone and fine particles throughout the region
- reduce air toxics in impacted communities
- reduce GHGs toward long-range targets
 - 40% below 1990 levels by 2030
 - 80% below 1990 levels by 2050

This Plan lays out a Bold Vision for a future Bay Area with a thriving economy, truly equitable access to healthy air, and a healthy, secure environment

Better Air Quality → Public Health Benefits

- Key health effects have been reduced more than three-fold since 1990
- Better air quality has increased average Bay Area life expectancy by ~ one year

Estimated Annual Cases from Air Pollution in Bay Area





Healthy Air for All Bay Area Residents



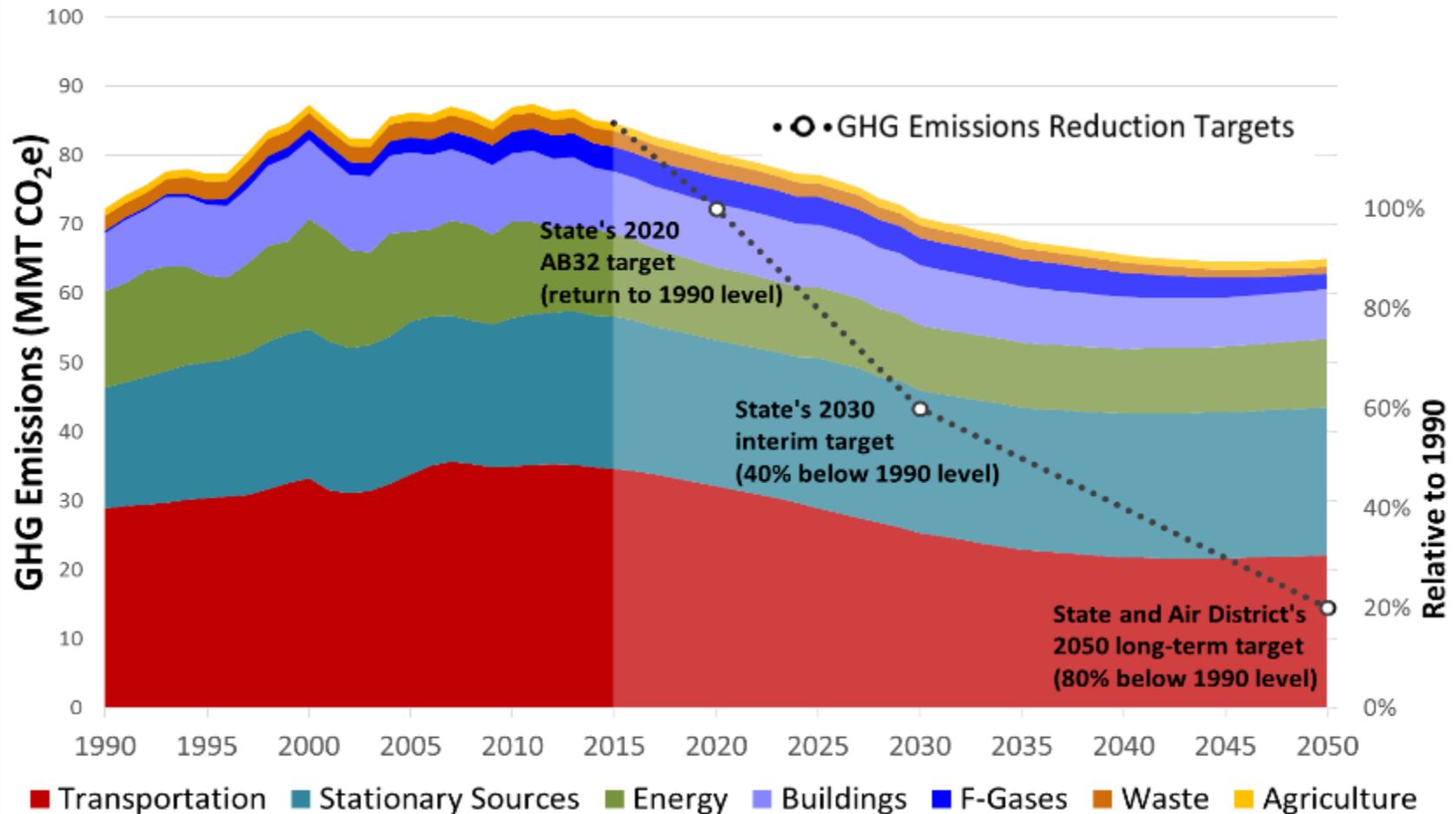
CARE Program identifies Bay Area communities most impacted by air pollution

Regionally: *reduce ozone and PM emissions* to assure long-term compliance with air quality standards

Locally: *eliminate disparities* in local exposure to air pollution

Climate Challenge in the Bay Area

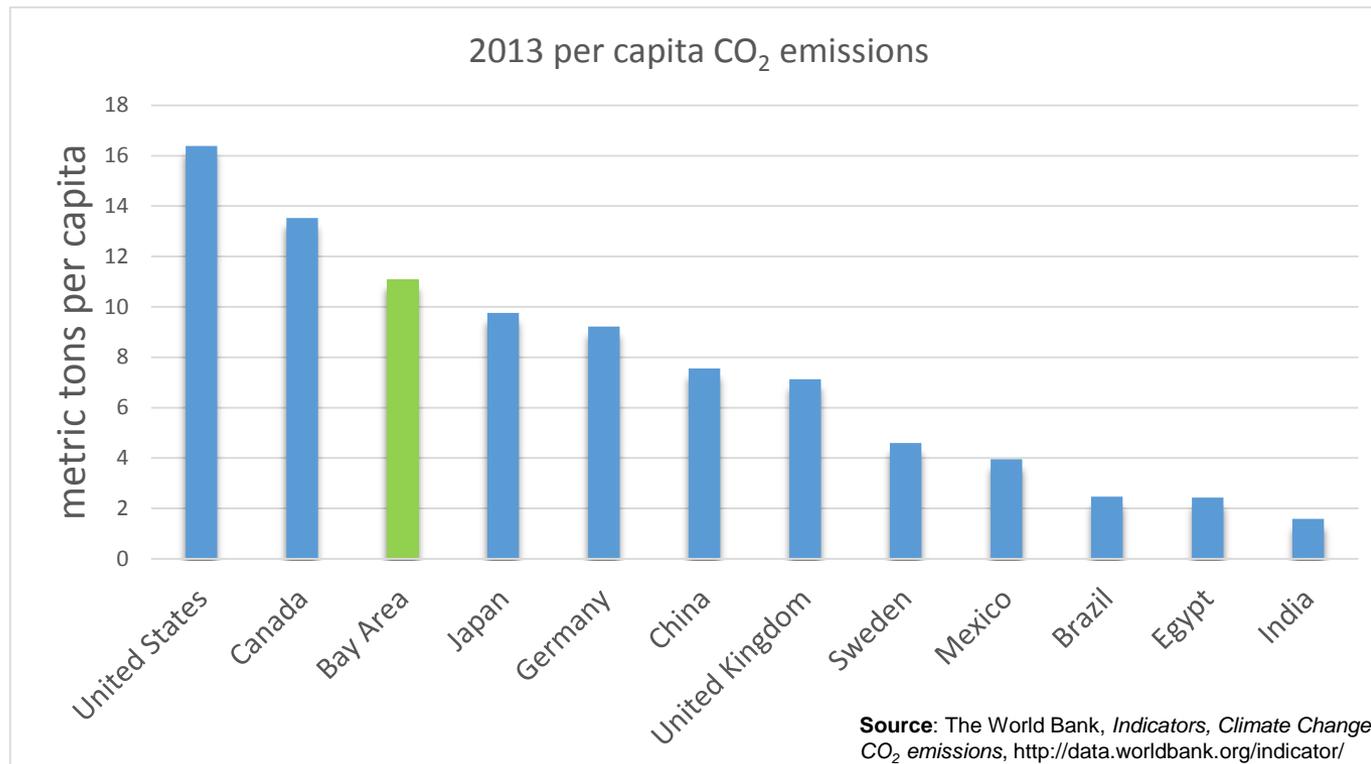
Bay Area GHG Projections to 2050 with Key State Programs



Bay Area Action is Important

The Bay Area is....

- The 21st-largest economy in the world
- The US metropolitan region with the most purchasing power
- A major global contributor to climate change
- A leader whose example is followed



A Bold Vision for 2050

- ✓ Reduce GHG emissions over 80%
- ✓ Eliminate disparities in health risk from air pollution



Power supply is nearly 100% renewable



Buildings are fossil-fuel free

Transportation is based on EVs and renewable diesel



Organics are put to use



Half of all trips are via transit, biking or walking



Oil companies become part of the solution





Priorities

Actions the Air District will take over the next 3-5 years

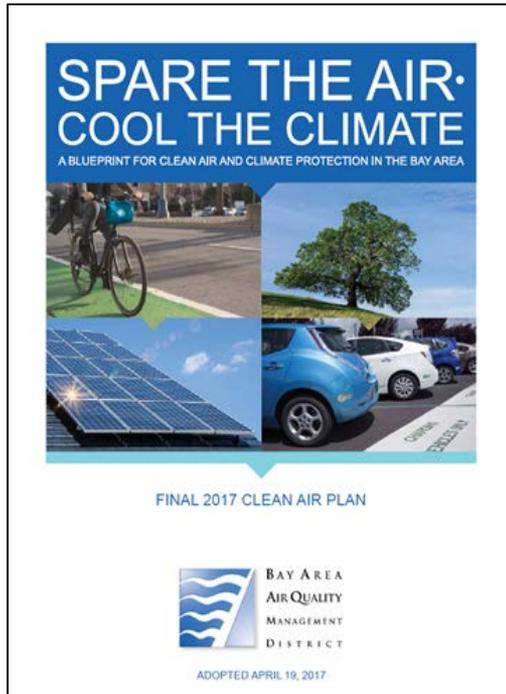
Key objectives:

- Reduce criteria pollutants, toxic air contaminants from all sources
- Reduce “super-GHGs”
- Reduce fossil fuel combustion
- Increase efficiency / reduce demand for fossil fuels
- Decarbonize the energy system / increase renewable energy

Tools:



Getting There: The Control Strategy



Economic Sector	No. of Measures	No. of Actions
Agriculture	4	22
Buildings	4	23
Energy	2	14
Natural & Working Lands	3	14
Super-GHGs	3	27
Stationary Sources	40	82
Transportation	23	77
Waste	4	15
Water	2	8
	85	282



Getting There: The Control Strategy

Near-term Priority:

Limit GHGs, criteria pollutants and toxics from refineries and other large stationary sources

Innovation:

Develop region-wide rule-making approach to reduce risk and emissions from many sources comprehensively

CM #	2017 Control Measures
SS 20	Toxics Risk Cap (Rule 11-18)
SS 11	Refinery Emissions Cap (Rule 12-16)
SS 31, 35, 36, 37	Particulate Matter (Rule 6, 6-1, 6-6, 6-7, 6-8)
SS 13	Oil and Gas Production (Rule 8-37)
SS 12	Refinery Carbon Intensity Limits (Reg. 13-1)
SS 9, 17	GHG BACT and Crude Slate in Permits (Rule 2-1, 2-2)
SS 16	Basin-Wide Methane Strategy

CM #	2018 Control Measures
SS 5, 6, 7	Refinery Sulfur Emissions (Rule 9-1)
SS 22	Stationary Gas Turbines (Rule 9-9)
SS 19	Portland Cement (Rule 9-13)
SS 1	Fluid Catalytic Cracking in Refineries (Rule 6-5 Phase 2)
SS 15	Natural Gas Processing and Distribution
SS 40	Odors
WA 1, 2	Landfills and Composting Operations



Early Implementation: Funding

Launch New Funding Initiatives

- Implement \$4.5 million grant program
 - Assess opportunities to fund Clean Air Plan control measure implementation
 - Develop strategic funding strategy
 - Meet with local govts, community organizations and other funders to identify needs and opportunities
- Launch Technology Implementation Office
 - Hire Technology Implementation Officer and staff
 - Create advisory group
 - Undertake comprehensive review of stationary source GHG reduction technologies
 - Host Technology Forum (4th Quarter 2017)



Early Implementation: Funding

Sustain and Expand Existing Programs

- Incentivize electric vehicles (EVs) & EV infrastructure
 - \$17+ million awarded since 2010 for on-road vehicles and charging
 - \$42 million awarded since 2010 for off-road electrification (CalTrain, shore power)
 - \$5 million currently available through the 2017 *Charge!* Program
 - Bay Area goals: 110,000 EVs by 2020, 247,000 EVs by 2025
- Reduce diesel and black carbon emissions
 - ~\$150 million awarded since 2012 to reduce emissions from trucks, school buses, marine vessels, locomotives and off-road equipment
 - Over \$20 million anticipated annually to reduce diesel emissions
- Work with MTC/ABAG/local governments to reduce VMT
 - Launched \$5 million 2017 Bicycle Facilities Grant Program
 - Collaborate in developing *Plan Bay Area*
 - Support development of strong local climate action plans

Areas of Collaboration with Local Governments

Low Carbon Buildings:



- Model ordinances
- Best practices
- Pilot new technologies

Renewable Energy:



- Support CCEs
- Model ordinances
- Finance technology

Land Use and Trip Reduction:



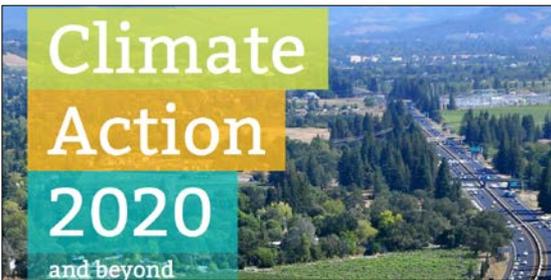
- Grant funding
- CEQA guidance
- Best practices

Organics:

- Best practices
- Facility siting & permitting



Climate Planning:



- GHG inventory data
- Tools & guidance
- Convenings
- Information-sharing



Early Implementation: Local Governments

Many of the societal changes necessary to achieve our goals will occur at the community level.

➤ **Air District's role – accelerate local implementation with early actions:**

- Decarbonizing energy – collaboration with CCEs
 - Feasibility study for 100% renewable default product
- Adopting ordinances and best practices
 - Model Solar Ordinance Project (with BARC, ABAG/BayREN)
 - Webinar series for local govt best practices
- Launched VMT tool with MTC as first step to creating data portal for local govt staff
- Updating CEQA guidance and thresholds



A Community Plan

Partners are critical to informing and participating in the implementation process

- Local governments
- State and regional agencies
- Industry/energy providers
- Community organizations
- Business networks
- Climate protection groups
- Schools and youth organizations
- Air District resource teams



An Unprecedented Journey

Road to 2050



We are embarking on an unprecedented journey to lead the Bay Area to a better future

Every household, business, organization and individual has tremendous power to make a difference



Bay Area Leadership

We have all the elements of success:

- Support at the State level
- Dedicated elected officials
- The most committed populace
- A culture of innovation
- A progressive business community
- A vast network of dedicated community organizations



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7.4

**Our Plan provides the blueprint for the first steps
in this journey**

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