

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





## **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

## The Air District's Response

#### We're launching a critical region-wide effort

- We are committed to providing leadership and taking aggressive action
- We have designed a Plan that enables the Air District to support and accelerate the efforts of other critical actors:

Local governments

Technology innovators

Community & advocacy orgs.

Households

**Business & industry** 

Research/Academia

State Agencies/ARB

**Individuals** 

- We hold ourselves accountable
  - We are responsible for implementing this Plan
  - Staff will report to the Board on our progress annually

### What Is This Plan?

Multi-pollutant plan to update 2010 Clean Air Plan

A comprehensive strategy of 85 measures to:

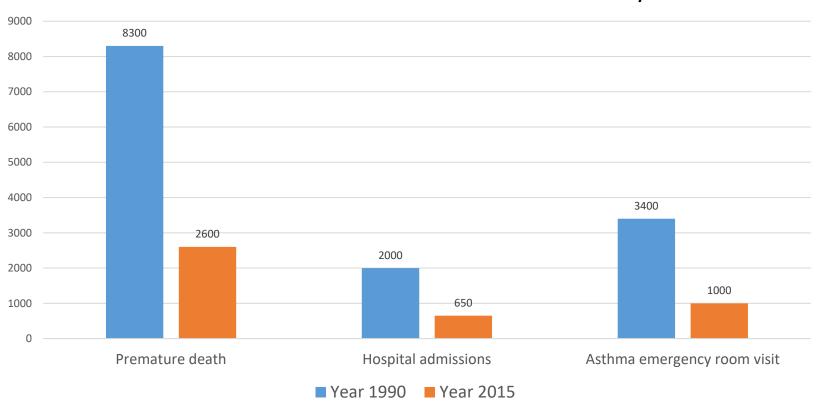
- reduce ozone and fine particles throughout the region
- reduce air toxics in impacted communities
- reduce GHGs toward long-range targets
  - → 40% below 1990 levels by 2030
  - → 80% below 1990 levels by 2050

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

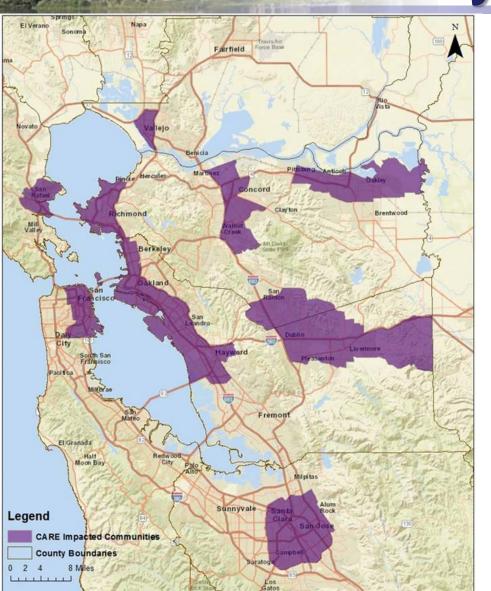
## **Better Air Quality** → **Public Health Benefits**

- 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



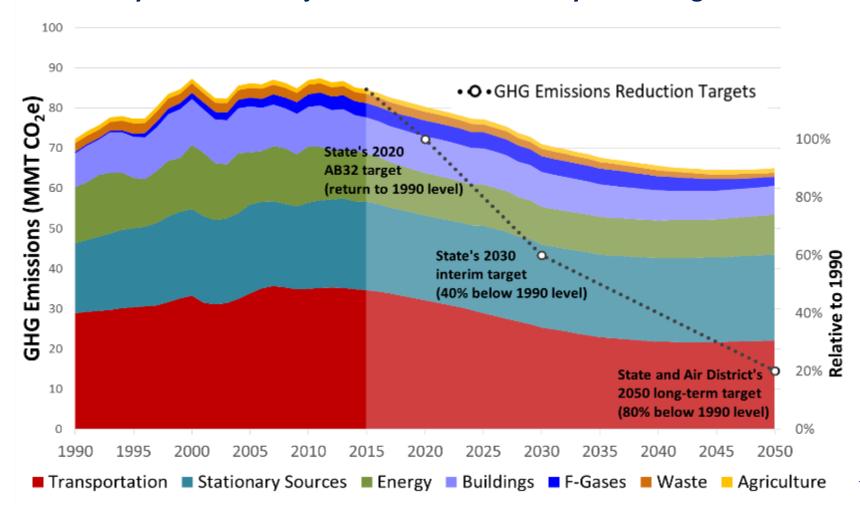
CARE Program identifies Bay Area communities most impacted by air pollution

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

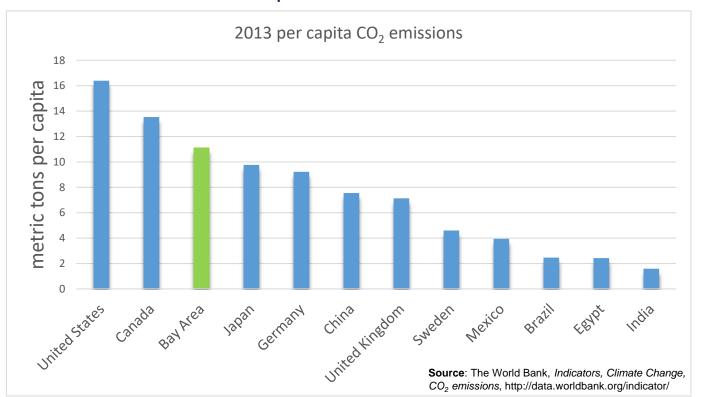
#### **Bay Area GHG Projections to 2050 with Key State Programs**



## **Bay Area Action is Important**

#### The Bay Area is....

- The 21<sup>st</sup>-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



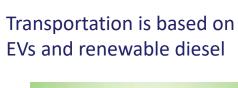
Half of all trips are via transit, biking or walking



Buildings are fossil-fuel free



Oil companies become part of the solution





Organics are put to use





It sets us on a path to 2050 by laying out specific actions the Air District will take over the next 3-5 years

Using all available tools: rules, grants & incentives, partnerships, local gov't collaboration, community engagement, research

#### Priorities in the Plan:

- Reduce emissions of criteria pollutants and toxic air contaminants from all sources
- Reduce emissions of "super-GHGs" such as methane
- Reduce fossil fuel combustion
- Improve efficiency/reduce demand for fossil fuels
- Decarbonize the energy system/increase renewable energy

## Getting There: The Control Strategy

- A near-term strategy for reducing criteria pollutants, air toxics and GHGs
- 85 distinct measures to reduce emissions...

#### Across all economic sectors:

Stationary Sources (40) Waste (4)

Transportation (23) Water (2)

Energy (2) Agriculture (4)

Buildings (4) Natural & Working Lands (3)

Super-GHGs (3)

#### Using many different tools\*:

Rule-making (49) Outreach/Ed (23)

Funding (28) Advocacy (14)

Model Policies (28)

\*Some measures use multiple tools



#### **Near-term Priority**:

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

#### Innovation:

Develop region-wide rulemaking 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			

# Getting There: The Control Strategy

Support local gov't efforts to achieve low carbon buildings, renewable energy, trip reduction and zero waste goals through:

- \$4.5 million grant program in FY2017/18 budget
  - Focus on innovation, replicability, co-benefits and leadership
- Technology Implementation Office
- Support for Community Choice Energy programs
- Guidance, model ordinances, best practices, tools, networking
- Model Solar Ordinance project









## Getting There: The Control Strategy

Aggressively target largest source of GHG, ozone precursor and PM emissions: TRANSPORTATION

- Continue to 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
- Continue to 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
- Work with MTC/ABAG/local governments to reduce VMT
  - Collaborate in developing Plan Bay Area
  - Continue funding for shuttle, rideshare and bike programs
  - Support development of strong local climate action plans

### **What This Plan Achieves**

Pollutant	Tons <sup>1</sup> Reduced	Annual Health Cost Savings	Equivalent Cars Removed
GHGs <sup>2</sup>	5.6 million/yr	\$350 million	1,000,000
Ozone (ROG, NOx)	20/day	\$736 million	2,000,000
PM <sub>2.5</sub>	3/day		

<sup>&</sup>lt;sup>1</sup> GHGs are in metric tons/year

#### Intangible, priceless benefits:

- Provide leadership
- Launch a region-wide discussion
- Stimulate engagement from all corners of the region
- Inspire hope in a challenging time

<sup>&</sup>lt;sup>2</sup> Based on 20-year GWP

## **A Community Plan**

#### This is a Plan "of the Community":

- Hundreds of individual experts and stakeholders have participated in development of this plan
- Demonstrated community buy-in and support
- Widespread public agency participation: MTC, ABAG, BARC, BCDC, local governments, state and federal agencies

It will take widespread collaboration and participation from the entire Bay Area community to make this Plan successful!





## Public Comment on the Draft Plan

370 individuals and organizations submitted comments that reflect excitement for the Plan and its Vision:

- Emphasis on the urgency of the goals and need for aggressive action
- Implementation suggestions: act quickly; ideas for partners; thoughts on prioritization and specific actions
- Ideas on how to maximize emission reductions from control measures
- Importance of coordinating with state, regional and local agencies

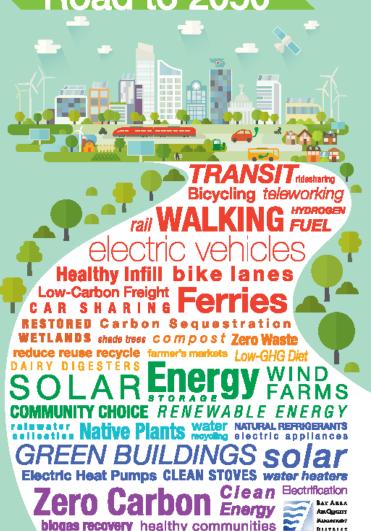


### Changes to the Plan

- Add \$4.5 million climate protection grant program and Technology Implementation Office
- Emphasize health and economic benefits of the Plan
- Make the Plan more accessible, understandable and actionable to the public
- Highlight importance of partnerships and collaborations with public agencies and stakeholders (including BARC)
- Update GHG emissions forecast
- Update control measure descriptions
- Acknowledge need to address economic transition issues such as workforce development

## **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



in this journey

### **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







#### Staff recommends that the Board of Directors:

- 1. Certify the *Final Program Environmental Impact Report;*
- 2. Adopt the Findings and Statement of Overriding Considerations set forth in the Final EIR
  - All feasible mitigation measures and project alternatives have been evaluated,
  - The air quality and climate benefits of the 2017 Plan outweigh the significant water supply impacts, and;

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3. Adopt the proposed 2017 Clean Air Plan entitled *Spare the Air, Cool the Climate*.