



10-Point Climate Action Work Program

Board of Directors April 2, 2014

Henry Hilken Director, Planning, Rules & Research



Air District Board Adopts Resolution November 6, 2013

- Sets regional GHG reduction goal: 80% below 1990 levels by 2050
- Initiates regional climate protection planning process (Clean Air Plan)
- Directs staff to develop a work program to guide efforts in the near-term

10-Point Work Program

Policy Approaches:

- Set GHG reduction goal and interim targets
- Develop Regional Climate Action Strategy
- Initiate Rule Development
- Launch Climate Change & Public Health Initiative
- Explore Bay Area's Energy Future

Assist Local Governments:

- Support and Enhance Local Action
- Report Progress to the Public

Technical Program:

- Update Inventorying & Forecasting
- Implement GHG Emissions Monitoring
- Expand Enforcement

Revisions to Work Program

Based on Feedback from Board

- Include interim and per capita targets
- Encourage economic approaches
- Work with ARB to potentially use Cap & Trade proceeds to support implementation
- Assess health impacts associated with black carbon
- Provide regular, consistent data to local governments
- Focus efforts on disadvantaged communities
- Work with a wide variety of stakeholders



Outreach: Meetings

Climate Protection Committee directs staff to continue robust outreach effort December 9, 2013

- Meetings in each of the 9 counties
- Region-wide public workshop
- Meetings with specific stakeholder groups:
 - 350 Bay Area
 - Bay Area Clean Water Agencies
 - CA Council for Env'l and Economic Balance (2 mtgs)
 - Regional agency planning staff
 - Silicon Valley Leadership Group

Outreach: Stakeholders

Stakeholder groups reached through meetings

Local governments
Regional agencies
Water agencies
Special districts
Public health officers
Transportation agencies

Business organizations
Land use planning orgs
Local energy agencies
Environmental organizations
Community-based orgs



Outreach: Results

Stakeholder Feedback - Major Themes

- Supportive comments on Draft Work Program
- Ideas for collaboration
- Desire for continued assistance to local govts (tools, best practices, convening, info-sharing)
- Importance of standardizing GHG data
- Suggestions for the 2015 Clean Air Plan



Outreach: Results

Suggestions for the 2015 Clean Air Plan

- Facilitate GHG reduction in permitting
- Continue supporting EVs and EV infrastructure
- Need more incentives and funding
- Regional rule-making could help implement local climate action plans
 - Green building requirements
 - Heat island mitigation strategies
 - Parking standards
 - Control of various types of polluting equipment

Revisions to Work Program

Based on Feedback from Stakeholders

- Emphasize working with stakeholders on GHG forecasts and interim targets
- Conduct a "robust public outreach effort" on the Clean Air Plan
- Under CAPCOA GHG Exchange, specify development of offset protocols that support local GHG reduction projects
- Include review of Air District's permitting program to facilitate GHG reductions

Estimated Resource Needs

- Much implementation will occur with existing staff
- Additional resources will be needed

Resource	Cost
Existing GHG Program (9 FTE)	\$1.4 million
New GHG Program – Reallocation (1 FTE)	\$160,000
New GHG Program – New Hires (4 FTE)	\$640,000
Total staff	\$2.2 million
Capital	\$360,000
Supplies & services	\$350,000



Next Steps

- Implement the 10-Point Work Program
- Prepare the 2015 Clean Air Plan and Regional Climate Protection Strategy
- Continue dialogue with stakeholders
- Update the Board

41.3

7.4

17.5

27.6



Recommendation

The Climate Protection Committee recommends Board of Directors approval of the proposed 10-Point Climate Action Work Program



Strategic Staffing Plan Update

Board of Directors Regular Meeting April 2, 2014

Jack P. Broadbent Executive Officer/APCO



Background

- Air District has remained mindful of resources as we weathered the economic recession
- Promoting from within, when possible, and providing enhanced training programs / leadership development program
- Maintained a stable vacancy rate over time
- Board has given direction to maintain sufficient service levels to meet legal mandates



Current Staffing Levels

Total Authorized	365
Current Level	310
Total Vacancies	55

Strategic Staffing Principles

- Ensure mandated programs are supported
- Hire for positions that will enhance operational efficiencies in the future
- Hire to advance policy direction from the Board
- Implement 10-Point Climate Action Work Plan
- Identify shared services efficiencies for upcoming move
- Continually evaluate priorities

Staffing Considerations

- Reviewed the Agency from the ground up
- Executive Management Input
- Evaluated needs to meet our goals and decided to fill 15 vacancies

Filling Vacancies in FYE 2015

Division	Title
Planning	Rule Development Manager
Planning	Senior Advanced Projects Advisor
Technical	Administrative Secretary
Technical	Air Quality Instrument Specialist
Compliance & Enforcement	Air Quality Inspector (5)
Compliance & Enforcement	Secretary
Administration	Human Resources Analyst
Engineering	Air Quality Engineering Manager
Engineering	Senior Air Quality Engineer
Information Services	Information Services Manager
Information Services	Air Quality Instrument Specialist

Climate Program Staffing

- Implementation of the Air District's 10-Point Climate Action Work Plan
- The Air District's ground breaking GHG Fee will be modified in FYE 2015 Budget
 - An increase of 4.6 cents per ton of GHG
- 4 Positions
 - Planning (2)
 - Inspection (1)
 - Technical (1)

Staffing Levels in FYE 2015

Climate Program Positions	4
All Other Positions	325
Total Budgeted Positions	329



Next Steps

- 10-Point Climate Action Work Plan Implementation
- Continue Cost Recovery Efforts
- Look ahead at Shared-Services savings opportunities at Regional Headquarters
- Continue to evaluate positions as they become vacant



Overview of the 2013-14 Winter Spare the Air Season

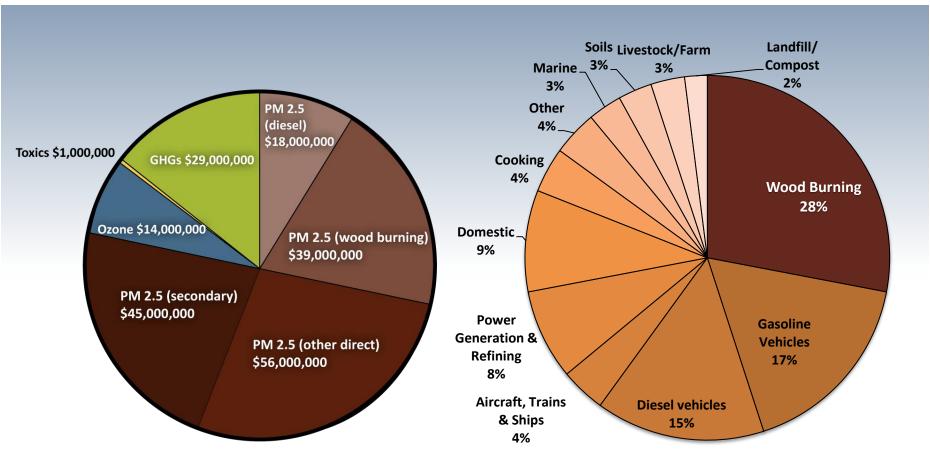


Eric Stevenson, Technical Services Director - Wayne Kino Director of Compliance and Enforcement - Lisa Fasano, Communications Officer

April 2, 2014 Meeting of the Board of Directors



PM_{2.5} Reduction Benefits



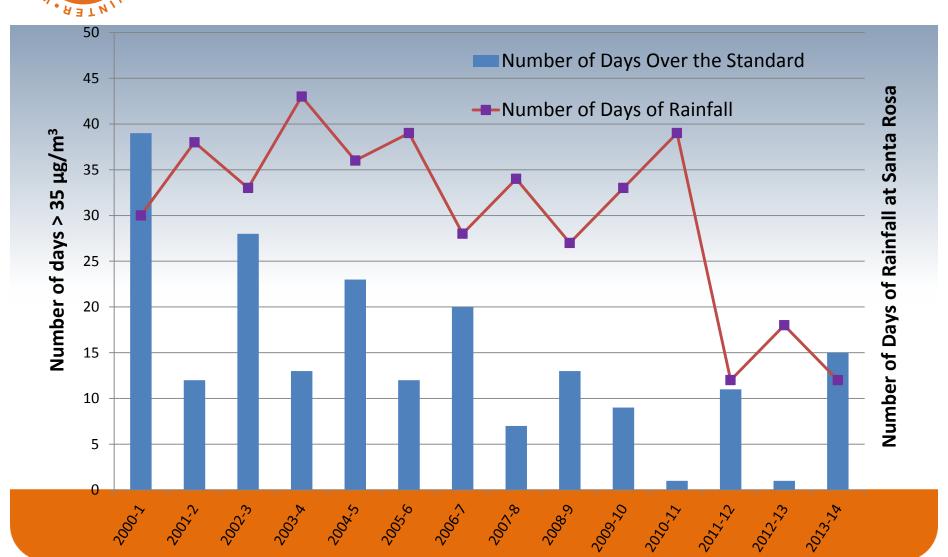


Winter PM_{2.5} Seasons

Year	Days > 35 µg/m³	Winter Spare the Air Alerts
2011/2012	11	15
2012/2013	1	10
2013/2014	15	30



Meteorology & Progress



Highest Air Quality Readings – November 2013 – February 2014

	November 2013						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
					21.5	15.7 ²	
13.8	10.0	10.4	16.7 ⁶	19.0	16.5 *	16.0 9	
39.0	33.3	20.2	13.6	19.3	16.8	14.5	
18.7	11.1	11.3	8.8	11.9	13.6	21.0	
31.7	29.9	27.2 26	40.1	34.6	24.9 ²⁹	29.7 30	

	December 2013						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
1	2	3	4	5	6	7	
28.4	17.4	12.7	15.8	28.9	28.2	18.0	
22.0	21.0 ⁹	23.5 10	27.7 11	35.1 12	32.7 13	38.0	
38.7 15	40.2 16	57.7	38.7 18	11.1	16.6	25.7	
35.8	39.3 ²³	32.2 ²⁴	36.5 ²⁵	28.0 26	34.3 ²⁷	28.7	
18.6 ²⁹	44.4	45.9					

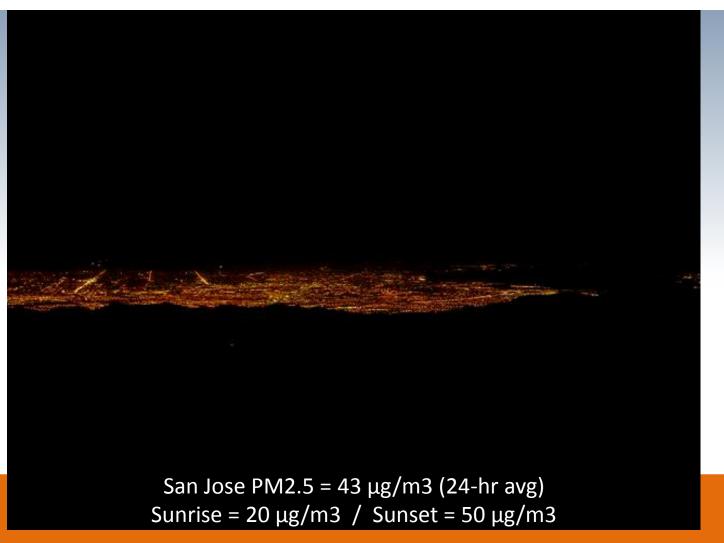
January 2014						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			60.4	37.4	32.6	26.5
22.0	31.8	33.3	24.1 ⁸	16.4 9	21.6	22.3
12.1	12.1	20.4	23.2	23.4	33.8	29.7 18
27.2 19	27.3	23.6	19.9	32.8	42.9	27.3
17.8	16.5	12.7	9.3	11.0	11.9	

February 2014						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						15.9
10.9	11.6 ³	15.2	13.3	16.8 ⁶	11.8	7.3 *
9.3	9.0	13.6	14.2	12.8	10.2	11.1
11.5	13.3	13.2	10.5	10.5	12.6	14.8
13.8	14.3	15.2	12.8	11.7	9.5	-

Note: The data listed above is preliminary and represents the highest air quality index readings in the region for each day.

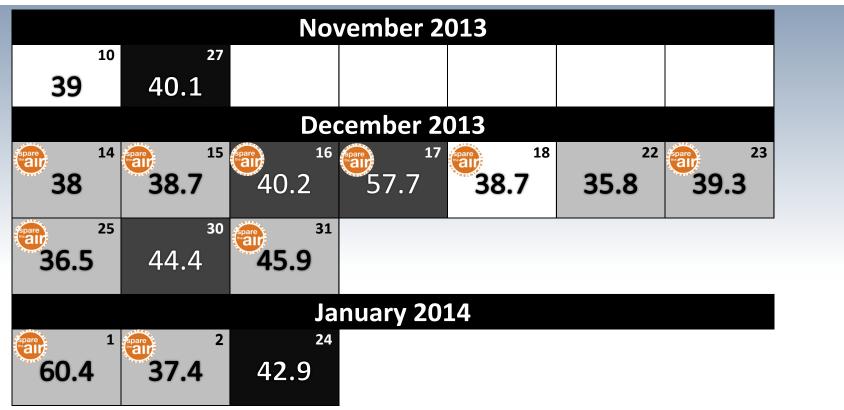


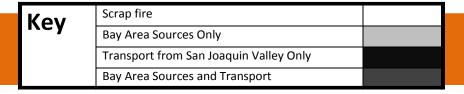
Regional PM Movement





Regional Contributions







Local Lessons

Santa Rosa

- Sampling performed at 6 locations to determine variability
- One fireplace or wood stove can impact small areas not measured on Regional instruments
- San Geronimo Valley
 - Concentrations above the standard are likely to be almost entirely caused by wood smoke
 - Smoke impacts other locations



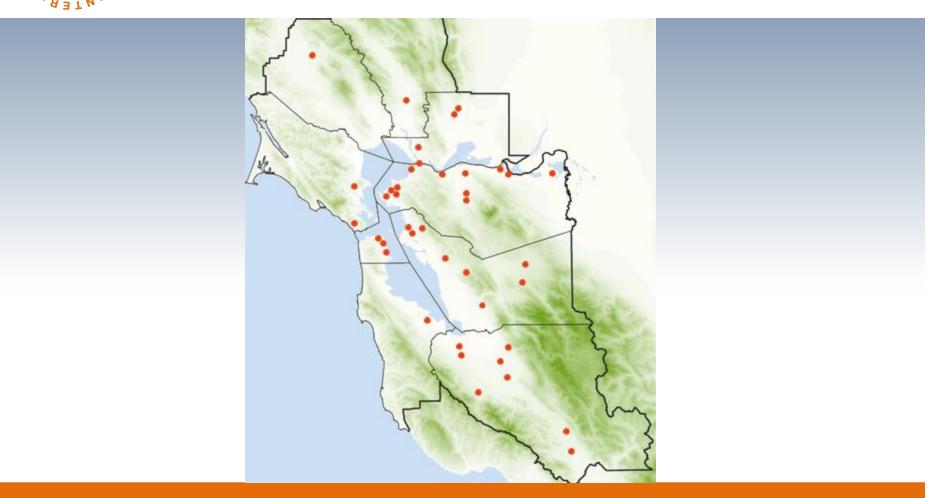
Air Monitoring Network

Locations must meet EPA regulations





Air Monitoring Network





Wood Smoke Enforcement

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
WSTA Alerts	11	7	4	15	10	30
PM _{2.5} Excesses	13	9	1	11	1	15
Complaints	1,500	2,355	1,373	3,777	2,316	5,091
Info Packets	1,550	10,270	592	11,476	3,720	1,768
Violations	255	319	61	359	178	267
Exemptions	0	44	49	76	91	150 + 27 Seasonal



Enforcement Highlights

- Violations: 267
 - 253 1st NOV Wood Smoke Awareness Course or \$100 penalty
 - 14 2nd or 3rd NOV \$500 (increased with additional NOVs)
 - 177 Total Exemptions 150 permanent, 27 non-functional heater
- Complaints: 5091
 - 60% on Spare the Air Days
 - 209 addresses with 5 or more complaints
 - 15 addresses with 20 or more complaints
 - 1 address with 43 complaints
 - 83 complaints by 1 person





Enforcement Practices

 Complaint information is used to determine patrols and to concentrate enforcement on

houses with multiple complaints

- Patrols deployment varied throughout the season
- Violations are documented and issued when discovered



Al igual que el humo de cigarrillo, el humo de leña puede ser dañino para sus pulmones.

Antes de quemar leña, asegúrese que no esté prohibido. Llame at 877-466-2876 SpareTheAirNow.org

Like cigarette smoke, wood smoke can be harmful to your lungs.



TODAY IS A

SPARE THE AIR DAY.

Like cigarette smoke, wood smoke can be

harmful to your lungs.

Check before you burn.

1-877-4NO-BURN SpareTheAir.org

Like cigarette smoke, wood smoke can be harmful to his lunas

就像香煙釋放的煙霧一 樣,木材燃燒的煙霧也會 損害你的肺部。



LING GIYAIGUE

smoke, wood

smoke can

be harmful to his lungs.

Wood fires are the number one

cause of winter air pollution in

這樣做是否合法。



Check before you burn. 1-877-4N0-BURN

SpareTheAir.org



Regional Outreach

- 205,227 calls to
 1-877-4NO-BURN
- 100,000 subscribers to email Air Alerts
- 19,000 subscribers to phone Air Alerts
- 24,000 iPhone & Android app downloads
- **5,172** news stories
- 1,787 homes reached door-to-door





SAN FRANCISCO

NBC #

CO. - 1

Media Coverage

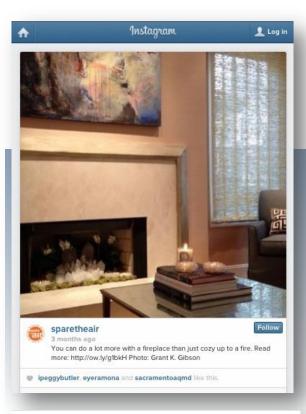
NO WOOD BURNING

TV coverage on ABC 7

during Weather segment



Spare the Air Season Report



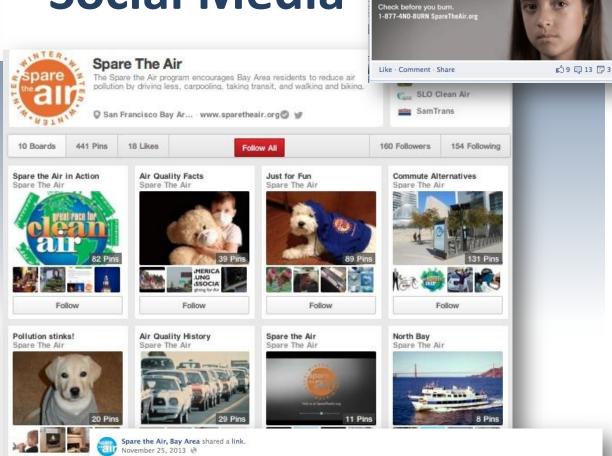


Following

A winter @SparetheAir alert is in effect now & has been issued again for TUE. Air quality remains poor. pic.twitter.com/nNW5QUUbbm



Social Media



ANOTHER WINTER SPARE THE AIR ALERT: The Air District is issuing the season's second Winter Spare the Air Alert for Tuesday, November 26, which bans the burning of wood, manufactured fire logs or any other solid fuel both indoors and outdoors for 24 hours. Homes without permanently installed heating, where woodstoves or fireplaces are the only source of heat, are exempt. For more information, please visit http://bit.ly/6pNwIU



Spare the Air - Winter

www.sparetheair.org

The Winter Spare the Air program notifies Bay Area residents when fine particulate, or soot, levels are anticipated to be unhealthy.

Spare the Air, Bay Area changed their cover photo.

Like cigarette smoke, wood smoke can be harmful to her lungs.



Results

- 30% of Bay Area households reduced wood burning
- 65% had heard, read or seen media stories about Winter Spare the Air
- Following alert, 44% of respondents were aware that Winter Spare the Air alert called
- 66% of respondents aware Air District prohibits wood burning on certain days
- Support for Wood Burning program increasing & remains strong at 75%



Lessons Learned this Season

- Need to work with stakeholders and develop resources to change out wood burning devices
 - Local governments
 - Partner with PG&E
- Explore amendments to Rule:
 - Exemptions
 - Opacity
- Continue to enhance outreach to change behaviors



Statewide Issues

- Transport between air basins
 - Wood Burning
 - Ag burning
 - Feedlots
- Drought concerns
 - Increased potential for wildfires



Dead trees can increase wood scavenging