



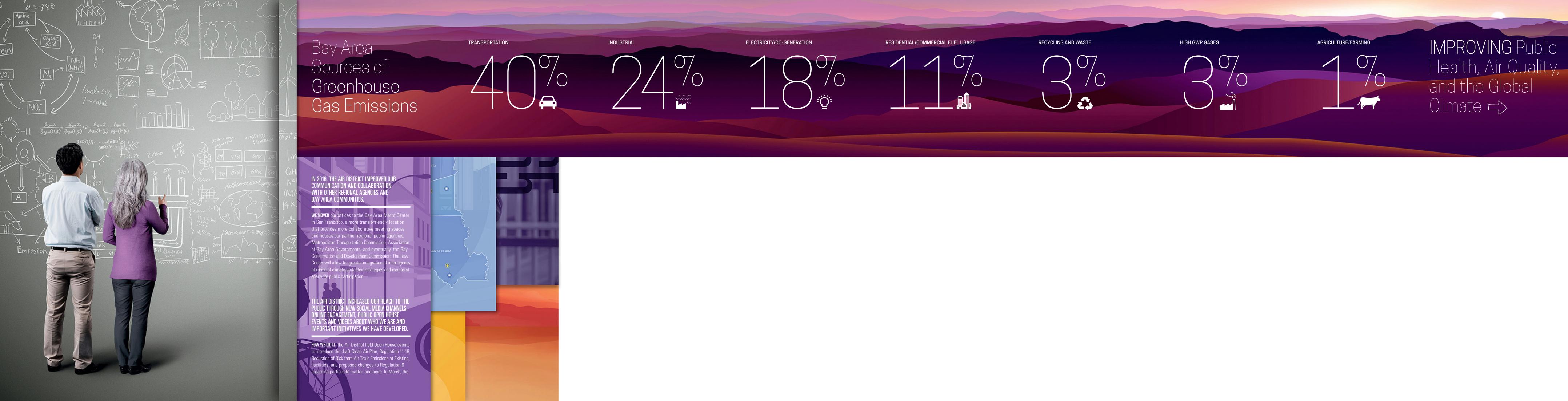
IMPROVING Public Health, Air Quality, and the Global Climate (2)

IN 2016, THE AIR DISTRICT IMPROVED OUR COMMUNICATION AND COLLABORATION WITH OTHER REGIONAL AGENCIES AND BAY AREA COMMUNITIES.

WE MOVED our offices to the Bay Area Metro Center in San Francisco, a more transit-friendly location that provides more collaborative meeting spaces and houses our partner regional public agencies, Metropolitan Transportation Commission, Association of Bay Area Governments, and eventually, the Bay Conservation and Development Commission. The new Center will allow for greater integration of inter-agency planning of climate protection strategies and increased space for public participation.

THE AIR DISTRICT INCREASED OUR REACH TO THE PUBLIC THROUGH NEW SOCIAL MEDIA CHANNELS, ONLINE ENGAGEMENT, PUBLIC OPEN HOUSE EVENTS AND VIDEOS ABOUT WHO WE ARE AND IMPORTANT INITIATIVES WE HAVE DEVELOPED.

HOW WE DID IT—the Air District held Open House events to introduce the draft Clean Air Plan, Regulation 11-18, Reduction of Risk from Air Toxic Emissions at Existing Facilities, and proposed changes to Regulation 6 regarding particulate matter, and more. In March, the



Climate =>

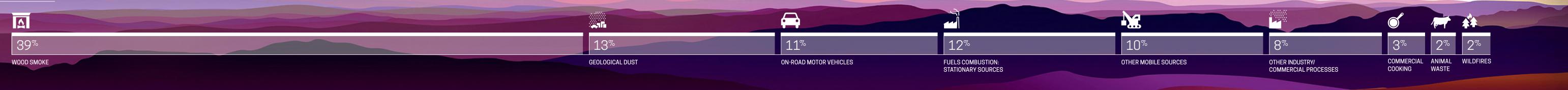
Winter Sources

of Bay Area Fine Particulate Pollution (2016)

Summer Sources

ON-ROAD MOTOR VEHICLES

of Bay Area Ozone-Forming Pollutants (2016)

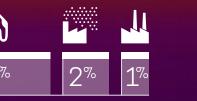














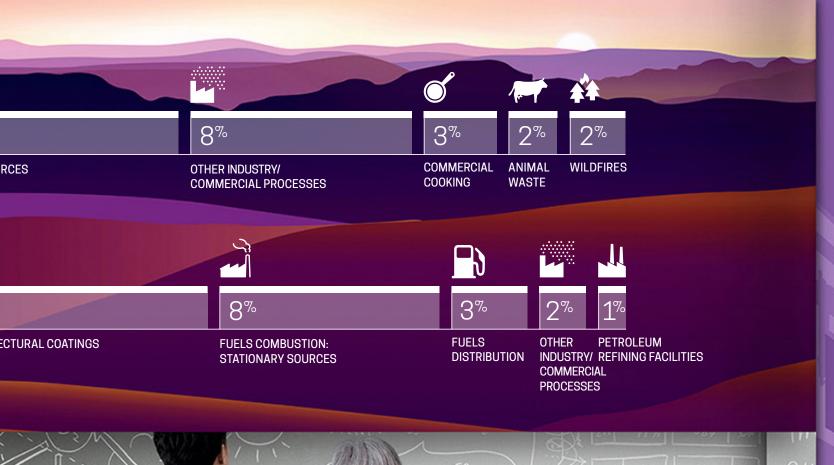


IN 2016, THE AIR DISTRICT IMPROVED O

A. B. Ballani

ATIVES WE HAVE DEVELOPED

HOW WE DID IT—the Air District held Open House events to introduce the draft Clean Air Plan, Regulation 11-18, regarding particulate matter, and more. In March, the





WORKING TOGETHER FOR CLEAN AIR AND CLIMATE PROTECTION

IN 2016, THE AIR DISTRICT IMPROVED OUR COMMUNICATION AND COLLABORATION WITH OTHER REGIONAL AGENCIES AND BAY AREA COMMUNITIES.

0

WE MOVED our offices to the Bay Area Metro Center in San Francisco, a more transit-friendly location that provides more collaborative meeting spaces and houses our partner regional public agencies, Metropolitan Transportation Commission, Association of Bay Area Governments, and eventually, the Bay Conservation and Development Commission. The new Center will allow for greater integration of inter-agency planning of climate protection strategies and increased space for public participation.

THE AIR DISTRICT INCREASED OUR REACH TO THE PUBLIC THROUGH NEW SOCIAL MEDIA CHANNELS, ONLINE ENGAGEMENT, PUBLIC OPEN HOUSE EVENTS AND VIDEOS ABOUT WHO WE ARE AND IMPORTANT INITIATIVES WE HAVE DEVELOPED.

HOW WE DID IT—the Air District held Open House events to introduce the draft Clean Air Plan, Regulation 11-18, Reduction of Risk from Air Toxic Emissions at Existing Facilities, and proposed changes to Regulation 6 regarding particulate matter, and more. In March, the



Air District launched a new online civic engagement tool, Open Air Forum, that offers the public a new way to review and provide feedback on specific Air District topics, documents and rules. And the Air District expanded our presence on social media launching Facebook, Twitter, Instagram and YouTube sites with regular postings on Air District programs, initiatives, weather and air quality conditions.

IN LATE 2016, THE AIR DISTRICT PUBLISHED THE DRAFT CLEAN AIR PLAN, SPARE THE AIR, COOL THE CLIMATE, A CALL TO ACTION THAT WILL LEAD THE REGION TOWARD A POST-CARBON ECONOMY BY 2050.

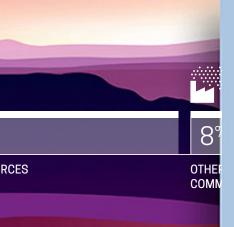
This bold Plan includes a long-range carbon-free vision for the Bay Area. The Plan serves as a call to action—for the Air District, Bay Area businesses and residents—to lead the region toward a post-carbon economy and a clean air future. *Spare the Air, Cool the Climate* can be reviewed at: www.baaqmd.gov/cleanairplan.

New rules that further reduce emissions from refineries were adopted by the Air District's Board of Directors.

- Regulation 9, Rule 14 reduces sulfur dioxide emissions from coke calcining—the largest Bay Area source. Regulation 12, Rule 15—a first-of-its-kind requirement—improves emissions tracking at refineries and enables the Air District to track those emissions when operational changes are made, while also allowing the agency to provide more information to the public.
- The Air District also published draft Regulation 11, Rule 18 designed to incorporate the latest public health guidelines and reduce health risk to residents from toxic air contaminants emitted by facilities in the Bay Area. The new rule would reduce toxic emissions from a wide range of facilities.



BAY AREA PERMITTED FACILITIES	
	82
	10,581
NEW PERMIT APPLICATIONS	
	77



ECTURAL COATINGS

Emission

LEADING THE WAY WAS OUR FOCUS IN 2016, A TRANSFORMATIONAL YEAR

WE CONTINUE TO MAKE PROGRESS IN OUR EFFORTS TO DELIVER CLEAN AIR AND DEVELOP EFFECTIVE CLIMATE INITIATIVES.

After nearly 50 years on Ellis Street, the Air District joined forces with our regional partner agencies, the Metropolitan Transportation Commission and the Association of Bay Area Governments, ing together to the Bay Area Metro Center in San Francisco. The location provides easier access by transit, opportunities for greater collaboration with both the public and partner agencies, and is a gold LEED-certified building.

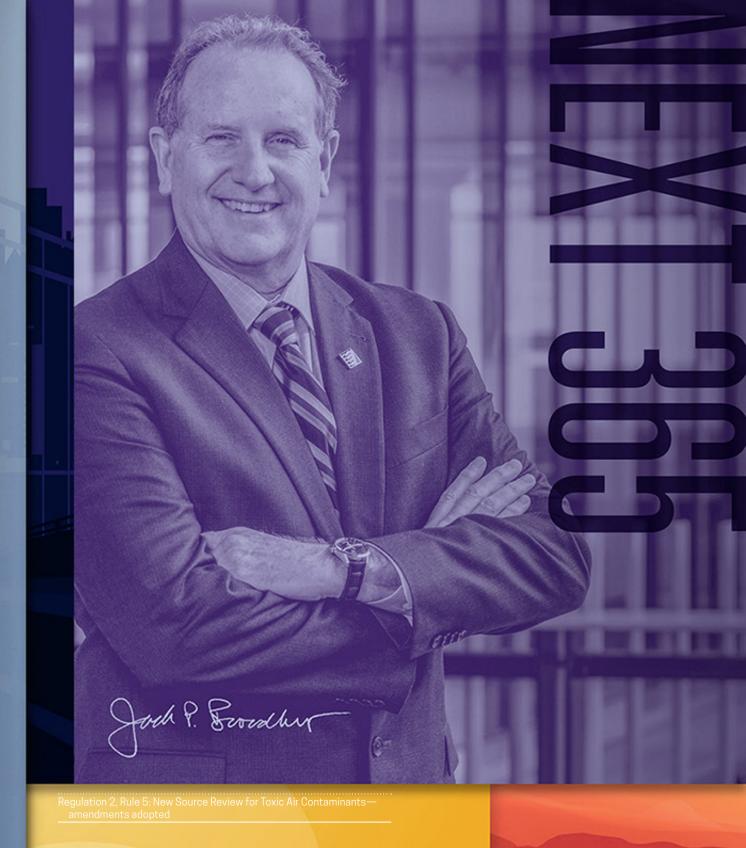
ADVANCED REGULATIONS

Rule 2-5 was amended to incorporate the latest public health guidelines and toxic air contaminant trigger levels in relation to toxic emissions from new sources. A second rule, Rule 9-13 established limits of toxic air contaminants, nitrogen oxides and particulate matter from Portland Cement facilities. These two rules will continue to curb air emissions from sources that impact localized

CHANGES IN THE AIR

The Air District provided funding to over 1,000 Bay Area residents to upgrade from a wood burning fireplace to cleaner heating options, contributed to the expansion of electric vehicle infrastructure, and published the *Planning Healthy Places Guidebook*—a roadmap to reduce traffic emissions. We expanded our monitoring network adding a new near-roadway air monitoring site, and a greenhouse gas monitoring network.

• The Air District also published draft Regulation 11, Rule 18 designed to incorporate the latest public health guidelines and reduce health risk to residents from toxic air contaminants emitted by facilities in the Bay Area. The new rule would reduce toxic emissions from a wide range of facilities.



BAY AREA PERMITTED FACILITIES	
	82
	10,581
NEW PERMIT APPLICATIONS	
	77
	1.140



8

OTHI COM

ECTURAL COATINGS



LETTER FROM THE EXECUTIVE

LEADING THE WAY WAS OUR FOCUS IN 2016, A TRANSFORMATIONAL YEAR FOR THE BAY AREA AIR DISTRICT.

WE CONTINUE TO MAKE PROGRESS IN OUR EFFORTS TO DELIVER CLEAN AIR AND DEVELOP EFFECTIVE CLIMATE INITIATIVES.

NEW REGINNING

After nearly 50 years on Ellis Street, the Air District joined forces with our regional partner agencies, the Metropolitan Transportation Commission and the Association of Bay Area Governments, moving together to the Bay Area Metro Center in San Francisco. The location provides easier access by transit, opportunities for greater collaboration with both the public and partner agencies, and is a gold LEED-certified building.

ADVANCED REGULATIONS

Rule 2-5 was amended to incorporate the latest public health guidelines and toxic air contaminant trigger levels in relation to toxic emissions from new sources. A second rule, Rule 9-13 established limits of toxic air contaminants, nitrogen oxides and particulate matter from Portland Cement facilities. These two rules will continue to curb air emissions from sources that impact localized regions in the Bay Area.

CHANGES IN THE AIR

The Air District provided funding to over 1,000 Bay Area residents to upgrade from a wood burning fireplace to cleaner heating options, contributed to the expansion of electric vehicle infrastructure, and published the *Planning Healthy Places Guidebook*—a roadmap to reduce traffic emissions. We expanded our monitoring network adding a new near-roadway air monitoring site, and a greenhouse gas monitoring network

The Bay Area will continue to lead the nation in innovative, effective climate initiatives even in the absence of science-based policies at the national level. We recently released our vision to improve air quality and reduce climate impacts, our Clean Air Plan, *Spare the Air, Cool the Climate*. Through this ambitious plan, we will tackle climate change head on—Bay Area residents expect nothing less

Jack P. Broadbent

Executive Officer

Air Pollution Control Office

 The Air District also published draft Regulation 11, Rule 18 designed to incorporate the latest public health guidelines and reduce health risk to residents from toxic air contaminants emitted by facilities in the Bay Area. The new rule would reduce toxic emissions from a wide range of facilities.

WOOD SMOKE REDUCTION GRANTS

The Air District provided funding to help Bay Area homeowners and landlords replace their wood-burning heating device with a qualifying electric heat pump or natural gas or propane fueled device, or to decommission their fireplace. Additional funds were provided to low-income residents, those in high wood smoke areas, and households whose wood-burning device is their sole source of heat.

ELECTRIC VEHICLE INFRASTRUCTURE

\$4.26 million in funds were awarded for 624 new plug-in electric vehicle charging stations (ports) for cities in the nine counties of the Bay Area.

PLANNING HEALTHY PLACES GUIDEBOOK

Planning Healthy Places is a guidebook for local land use planners, elected officials, developers, community groups, public health advocates and those interested in integrating land use, air quality and public health. Initiatives that support these efforts are vital to help reduce traffic and greenhouse gas emissions. Livable, walkable neighborhoods help minimize residential exposure to air pollution and promote clean, healthy air for all Bay Area residents. The document identifies feasible and effective "best practices" for minimizing air pollution exposure and emissions in communities. The guidebook also provides an online mapping tool identifying locations that have the potential to experience elevated levels of air pollution. Planning Healthy Places can be viewed at http://www.baaqmd.gov/planninghealthyplaces

CLIMATE FORWARD BAY AREA: A LEADERSHIP FORUM

The Air District hosted the two-day Climate Forward Forum in October 2016, which brought together technology, government, non-profit organizations and industry leaders to share ideas and approaches to reducing local greenhouse gases while maintaining economic viability. Topics included transportation alternatives, waste reduction, water use and featured a keynote address by Van Jones, *New York Times* best-selling author and CNN commentator. Videos of the three plenary round-table discussions and Van Jones' keynote address can be viewed at www.climateleadershipforum.org

GREENHOUSE GAS MEASUREMENT PROGRAM

Adding to the region's robust monitoring network, the Air District launched a system of fixed-site GHG monitors across the Bay Area and a mobile research van to provide more site-specific air quality and greenhouse gas measurements. The goal is to provide the scientific basis that supports rulemaking and GHG reduction policies in the Bay Area.

RECORD-BREAKING SUMMER SPARE THE AIR SEASON

The 2016 summer smog season marked a record-breaking number of Spare the Air Alerts called during a single season. The Air District called 27 alerts during the 2016 Spare the Air smog season, beating the previous record of 25 alerts set in 1996. A series of heat waves and smoke from wildfires, along with ever-increasing traffic, contributed to unhealthy air quality and led to the record number of alerts.

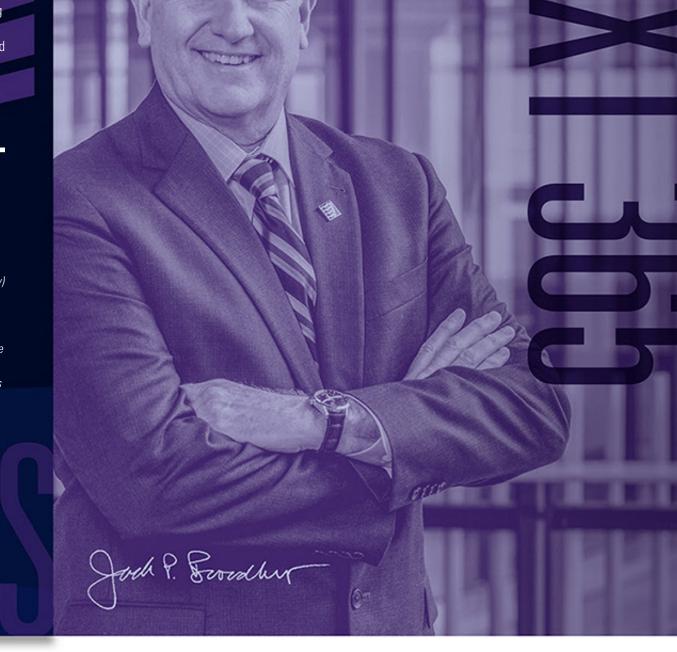
EXPANDED AIR MONITORING NETWORK

In 2016, a new near-roadway air monitoring station was opened at Aquatic Park in Berkeley, along I-80. Additionally, the Air District collaborated on several special studies, including:

- speciation of ultra-fine particulates (UC Davis)
- sensor networks (UC Berkeley)
- greenhouse gas measurements (Harvard)
- ground-level ozone monitoring (California Baseline Ozone Transport Study)

COMING IN 2017:

- a fourth near-roadway station along the I-580 corridor in Pleasanton
- a special monitoring station for toxics and black carbon in Pittsburg at the Los Medanos Community Health Care District facility
- community monitoring stations in support of the Air District's new refinery rules



amendments adopted

ERMITTING ACTIVIT

82
10,581
77
1,140

Grant and Incentive programs

CARL MOYER PROGRAM/MOBILE SOURCE INCENTIVE FUND (MSIF)—2016

Total Funds Awarded	\$11M
Number of Engines Covered by Grant Projects	121
Estimated Lifetime Emissions Reduction for the Projects Funded (tons)	
Reactive Organic Gases (ROG)	19
Oxides of Nitrogen (NO _x)	"258
Particulate Matter (PM ₁₀)	8
TOTAL	285

GOODS MOVEMENT PROGRAM—2016

Total Funds Awarded Number of Engines Covered by G Estimated Lifetime Emissions Refor the Projects Funded (tons)		\$27.6M 232
NO _X	The flat was a second	992 18
TOTAL		1.010

TFCA REGIONAL FUND GRANTS—2016

Total Funds Awarded	\$16.49M
Number of Engines Covered by Grant Projects	98
Estimated Lifetime Emissions Reduction for the Projects Funded (tons)	
ROG	51.59
NO _x	85.32
PM ₁₀	37.44
TOTAL TOTAL	174.35
Carbon Dioxide (CO ₂)	87,735.43

LOWER EMISSION SCHOOL BUS PROGRAM—2016

Bus Replacements, R	etrofits, and	l CNG Tan	k Replacements
(MSIF funds)			

TOTAL FUNDS AWARDED	\$564,000
Number of Buses Awarded Grants	21

TFCA COUNTY PROGRAM MANAGER FUND GRANTS—FISCAL YEAR ENDING 2016

Total	Funds Awarded	\$9.29M
Numb	per of Projects/Programs Awarded Grants	50
	ated Lifetime Emissions Reduction e Projects Funded (tons)	
ROG		60.32
NO _x		52.77
PM ₁₀		41.11
TOTA	L PARTY	154.20
CO ₂		90,214

VEHICLE BUY BACK PROGRAM—2016

TOTAL FUNDS AWARDED		\$5.51
Number of Vehicles Scrapped in 2016	4	5,16

Legislation Summary

THE AIR DISTRICT CO-SPONSORED TWO BILLS THAT WERE PASSED INTO LAW THIS YEAR THAT WILL CONTRIBUTE TO THE REDUCTION OF VEHICLE EMISSIONS.

- SB 1128 (Glazer) removed the sunset on the region's commuter benefits program.
- SB 773 (Allen) directs University of California to study the issue of unregistered vehicles, and vehicles in California

Additionally, the Air District supported AB 1685 (Gomez), which increases penalties for vehicle manufacturers who fail to comply with California air quality requirements.

SB 32 (Pavley), supported by the Air District, was double joined to AB 197 (Garcia) and signed into law. SB 32 extends California's climate emissions limits beyond 2020, by codifying a 40 percent reduction below 1990 levels by 2030. AB 197 creates a Joint Legislative Committee on Climate Policies, adds two legislators to the ARB as non-voting members, makes ARB Board member terms six years, and puts a variety of new requirements on ARB, including prioritizing rules that directly reduce emissions at large stationary sources.

The Air District strongly supported AB 2292 (Gordon), which mandated improvements to CalEnviroscreen, which fails to identify many severely disadvantaged communities. That bill failed to pass the Appropriations Committee in its first house. The District had an "oppose unless amended" position on a related bill AB 1550 (Gomez), which increases reliance on CalEnviroscreen, by saying that all 25 percent of the cap-and-trade funds required to be spent to benefit disadvantaged communities must now be spent within these communities. AB 1550 was signed into law without amendment as part of a climate package.

The District also had a "support if amended" position on SB 1383 (Lara), due to our concern regarding CalEnviroscreen. The bill was amended to address our concerns and codifies emissions reduction targets for short-lived climate pollutants, specifically methane, hydrofluorocarbons and black carbon.

Several other bills supported by the Air District did not become law. Three measures would have increased funding for emissions cleanup technology at ports. Another, SB 1441 (Leno) would have ended the practice of allowing utilities to bill customers for natural gas leaks.

> Rule 18 designed to incorporate the latest public health guidelines and reduce health risk to residents from toxic air contaminants emitted by facilities in the Bay Area. The new rule would reduce toxic emissions from a wide range of facilities.

• The Air District also published draft Regulation 11,

2016 by

33%
6%

65%

OZONE	
PARTICULATE MATTER	

BAY AREA PERMITTED FACILITIES	
	82
	10,581
NEW PERMIT APPLICATIONS	
	77

REPORT SMOKING VEHICLES 800.EXHAUST (394.2878) www.SmokingVehicleHelp.org

877.4NO.BURN (466.2876)

www.facebook.com/sparetheaii www.twitter.com/@airdistrict







Legislation Summary

\$9.29M

60.32

52.77

41.11

154.20

90.214

\$5.5M 5,161 THE AIR DISTRICT CO-SPONSORED TWO BILLS THAT WERE PASSED INTO LAW THIS YEAR THAT WILL CONTRIBUTE TO THE REDUCTION OF VEHICLE EMISSIONS.

- SB 1128 (Glazer) removed the sunset on the region's commuter benefits program.
- SB 773 (Allen) directs University of California to study the issue of unregistered vehicles, and vehicles in California with out-of-state plates.

Additionally, the Air District supported AB 1685 (Gomez), which increases penalties for vehicle manufacturers who fail to comply with California air quality requirements.

SB 32 (Pavley), supported by the Air District, was double joined to AB 197 (Garcia) and signed into law. SB 32 extends California's climate emissions limits beyond 2020, by codifying a 40 percent reduction below 1990 levels by 2030. AB 197 creates a Joint Legislative Committee on Climate Policies, adds two legislators to the ARB as non-voting members, makes ARB Board member terms six years, and puts a variety of new requirements on ARB, including prioritizing rules that directly reduce emissions at large stationary sources.

The Air District strongly supported AB 2292 (Gordon), which mandated improvements to CalEnviroscreen, which fails to identify many severely disadvantaged communities. That bill failed to pass the Appropriations Committee in its first house. The District had an "oppose unless amended" position on a related bill AB 1550 (Gomez), which increases reliance on CalEnviroscreen, by saying that all 25 percent of the cap-and-trade funds required to be spent to benefit disadvantaged communities must now be spent within these communities. AB 1550 was signed into law without amendment as part of a climate package.

The District also had a "support if amended" position on SB 1383 (Lara), due to our concern regarding CalEnviroscreen. The bill was amended to address our concerns and codifies emissions reduction targets for short-lived climate pollutants, specifically methane, hydrofluorocarbons and black carbon.

Several other bills supported by the Air District did not become law. Three measures would have increased funding for emissions cleanup technology at ports. Another, SB 1441 (Leno) would have ended the practice of allowing utilities to bill customers for natural gas leaks.



 The Air District also published draft Regulation 11, Rule 18 designed to incorporate the latest public health guidelines and reduce health risk to residents from toxic air contaminants emitted by facilities in the Bay Area. The new rule would reduce toxic emissions from a wide range of facilities.

$2016\,by$

33%
6%

65%

PARTICULATE MATTER	

BAY AREA PERMITTED FACILITIES	
	82
	10,581
NEW PERMIT APPLICATIONS	
	77

REPORT SMOKING VEHICLES 800.EXHAUST (394.2878)

877.4NO.BURN (466.2876)









Legislatic Summary

THE AIR DISTRICT CO-SPONS THAT WILL CONTRIBUTE TO

SB 1128 (Glazer) removed the s

\$9.29M

60.32

52.77

41.11

154.20

90.214

\$5.5M 5,161 SB 773 (Allen) directs University with out-of-state plates.

Additionally, the Air District su who fail to comply with Califor

SB 32 (Pavley), supported by the extends California's climate em by 2030. AB 197 creates a Join as non-voting members, makes ARB, including prioritizing rules

The Air District strongly support fails to identify many severely of in its first house. The District h which increases reliance on C to be spent to benefit disadvar signed into law without amend

The District also had a "suppo CalEnviroscreen. The bill was for short-lived climate polluta

Several other bills supported by funding for emissions cleanup allowing utilities to bill custom



HEALTH RISK ASSESSMENTS

Diesel Engines	153
Gasoline Dispensing	
	55
TOTAL	228

COMPLIANCE AND ENFORCEMENT ACTIVITY

2016 COMPLIANCE INSPECTIONS	
Source Inspections	
Air Pollution Complaints (Excluding Smoking	
Gasoline-Dispensing Facility Inspections	
Asbestos Inspections	3,08
Reportable Compliance Activities	40
Diesel Compliance and Grant Inspections	3,20
TOTAL	22,23
2016 CIVIL PENALTIES AND VIOLATIONS	
Civil Penalties	\$6,112,93
Violations Resolved with Penalties	44

AIR POLLUTION COMPLAINT CATEGORIES

Odor	43.3%	4,570
Wood Smoke	20.9%	2,205
Smoking Vehicle	29.7%	3,136
Dust	3.0%	316
Asbestos	1.2%	124
Miscellaneous Categories (including Smoke, Outdoor Burning and Gas Stations)	1.9%	199
TOTAL COMPLAINTS		10,550

SOURCE TEST ACTIVITY

Refinery Source Tests	141
Compliance Rate	99.3%
Title V Facility Source Tests (Excluding Refineries)	48
Compliance Rate	91.7%
General Compliance Tests	273
Compliance Rate	95.6%
Gasoline Dispensing Facilities	153
Compliance Rate	56.2%
Other Miscellaneous Source Tests	14,119
Compliance Rate	99.9%
TOTAL SOURCE TESTS	14,734
TOTAL VIOLATIONS	105
COMPLIANCE RATE	99.3%

LABORATORY

PM*	2,981
Toxics	702
Source-oriented analyses	165
nteragency projects	13
TOTAL	2,981

Rex Sanders Administrative Resources

Engineering and Information Technology

Pete Sanchez

ENGINEERING SERVICES

REPORT SMOKING VEHICLES

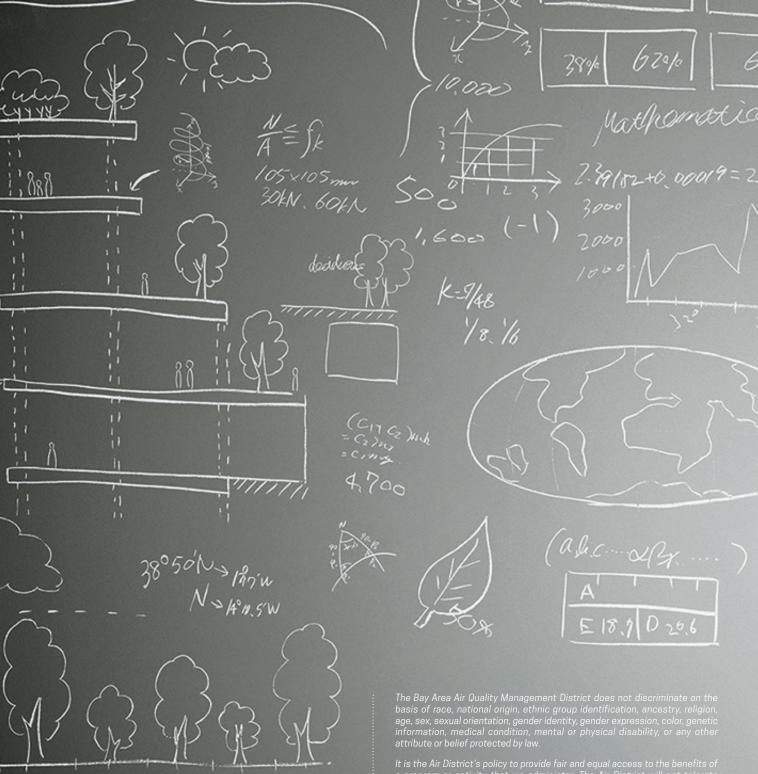
877.4NO.BURN (466.2876)













BAY AREA AIR QUALITY
MANAGEMENT DISTRICT

Bay Area Air Quality Management District 375 Beale St., San Francisco, CA 94105 415.749.5000 www.baaqmd.gov

CONTRIBUTORS

Communications Officer: Lisa Fasano Communications Manager: Kristine Roselius Editor: Tina Landis Design/Production: Curran & Connors, Inc. Photography: Sharon Beals

It is the Air District's policy to provide fair and equal access to the benefits of a program or activity that we administer. The Air District will not tolerate discrimination against any person(s) seeking to participate in, or receive the benefits of, any program or activity offered or conducted by us. Members of the public who believe they or others were unlawfully denied full and equal access to an Air District program or activity may file a discrimination complaint with us under this policy. This non-discrimination policy also applies to other people or entities affiliated with the Air District, including contractors or grantees that we utilize to provide benefits and services to members of the public.

Auxiliary aids and services including, for example, qualified interpreters and/or listening devices to individuals who are deaf or hard of hearing, and to other individuals as necessary to ensure effective communication or an equal opportunity to participate fully in the benefits, activities, programs and services will be provided by the Air District in a timely manner and in such a way as to protect the privacy and independence of the individual. Please contact the Non-Discrimination Coordinator identified below at least three days in advance of a meeting so that arrangements can be made accordingly.

If you believe discrimination has occurred with respect to one of our programs or activities, you may contact the Non-Discrimination Coordinator identified below or visit our website at www.baaqmd.gov/accessibility to learn how and where to file a complaint of discrimination.

Questions regarding this policy should be directed to the Air District Non-Discrimination Coordinator, Rex Sanders, at 415.749.4951 or by email at