



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

HYBRID ENVIRONMENTAL JUSTICE ADVISORY GROUP

Advisory Group Members

Veronica Padilla-Campos, Advisory Group Chair
Chair Vanessa Delgado
Supervisor Curt Hagman

Elizabeth Alcantar
Manuel Arredondo
Pamela Atcity
Angelica Balderas
Dr. Lawrence Beeson
Suzanne Bilodeau
Ada Briceño
Paul Choe
Kerry Doi
Dr. Afif El-Hasan

Mary Figueroa
Angela Garcia
Kareem Gongora
Ana Gonzalez
Lisa Hart
Dr. Jill Johnston
Edward Marquez
Donald Smith
Rafael Yanez

A meeting of the South Coast Air Quality Management District Environmental Justice Advisory Group will be held at **12:00 PM on Friday, February 28, 2025** through a hybrid format of in-person attendance in Conference Room CC-2 at the South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, and remote attendance via videoconferencing and by telephone.

TELECONFERENCE LOCATIONS

Chair Vanessa Delgado
944 S. Greenwood Ave.
Montebello, CA 90640

Please refer to South Coast AQMD's website for information regarding the format of the meeting, updates if the meeting is changed to a full remote via webcast format, and details on how to participate:

<http://www.aqmd.gov/home/news-events/meeting-agendas-minutes>

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION AT BOTTOM OF AGENDA

Join Zoom Webinar Meeting - from PC or Laptop

<https://scaqmd.zoom.us/j/93205196343>

Zoom Webinar ID: 932 0519 6343 (applies to all)

Teleconference Dial In

+1 669 900 6833

AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't Code Section 54954.3(a)). If you wish to speak, raise your hand on Zoom or press Star 9 if participating by telephone. All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes total for all items on the agenda.

CALL TO ORDER

- **Roll Call**
- **Opening Remarks**

ACTION ITEMS (Item 1 and 2):

1. **Approval of November 14, 2024, Meeting Minutes**
(Motion Required)
[Attachment 1]

Veronica Padilla-Campos
Advisory Group Chair

2. **Review of Follow-Up/Action Items**
Staff will review the follow-up/action items identified in the November 14, 2024, meeting.
(No Motion Required)

Lisa Tanaka
*Deputy Executive Officer,
Legislative, Public Affairs & Media*

DISCUSSION ITEMS (Item 3 and 4):

3. **Progress in Reducing NOx and PM Emissions**
Staff will provide an overview of progress in reducing emissions, discuss key regulations and programs, and explore the future outlook based on control strategies.
(No Motion Required)
[Attachment 2]

Eric Praske
*Program Supervisor,
Planning, Rule Development and
Implementation*

4. **Overview on Permitting Crematories**
Staff will provide an overview on the permitting process for crematories.
(No Motion Required)
[Attachment 3]

Jason Aspell
*Deputy Executive Officer,
Engineering & Permitting*

OTHER MATTERS:

5. **Member Updates/Other Business**
Any member of this body, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't Code Section 54954.2)

All

6. Public Comment

All

Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3. At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the body's authority that is not on the agenda. Speakers may be limited to three (3) minutes.

7. Next Meeting Date – Friday, May 23, 2025 at 12 p.m.

ADJOURNMENT

Document Availability

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the body after the agenda is posted, are available by contacting Kajeja Shenghur at (909) 396-2532, or send the request to kshenghur@aqmd.gov.

Americans with Disabilities Act and Language Accessibility

Disability and language-related accommodations can be requested to allow participation in the Environmental Justice Advisory Group meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to South Coast AQMD. Please contact Kajeja Shenghur at (909) 396-2532, from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to kshenghur@aqmd.gov.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION

Instructions for Participating in a Virtual Meeting as an Attendee

As an attendee, you will have the opportunity to virtually raise your hand and provide public comment.

Before joining the call, please silence your other communication devices such as your cell or desk phone. This will prevent any feedback or interruptions during the meeting.

Please note: During the meeting, all participants will be placed on mute by the host. You will not be able to mute or unmute your lines manually.

After each agenda item, the Chair will announce public comment.

A countdown timer will be displayed on the screen for each public comment.

If interpretation is needed, more time will be allotted.

Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.

Directions for Video ZOOM on a DESKTOP/LAPTOP:

- If you would like to make a public comment, please click on the “Raise Hand” button on the bottom of the screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for Video Zoom on a SMARTPHONE:

- If you would like to make a public comment, please click on the “Raise Hand” button on the bottom of your screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for TELEPHONE line only:

- If you would like to make public comment, please dial *9 on your keypad to signal that you would like to comment.



South Coast Air Quality Management District



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MEETING OF THE ENVIRONMENTAL JUSTICE ADVISORY GROUP THURSDAY, NOVEMBER 14, 2024 MEETING MINUTES

Board Members Present:

Veronica Padilla-Campos, Advisory Group Chair
Supervisor Curt Hagman

Members Present:

Manuel Arredondo
Pamela Atcitty
Angelica Balderas
Dr. Lawrence Beeson
Ada Briceño
Paul Choe
Kerry Doi
Dr. Afif El-Hasan
Kareem Gongora
Ana Gonzalez
Lisa Hart
Donald Smith
Rafael Yanez

Members Absent:

Senator Vanessa Delgado (Ret.), Chair (Board Member)
Mayor José Luis Solache
Elizabeth Alcantar
Suzanne Bilodeau
Mary Figueroa
Angela Garcia
Dr. Jill Johnston
Humberto Lugo
Edward Marquez
Oscar Rodriguez

South Coast AQMD Staff:

Susan Nakamura, Chief Operating Officer
Lisa Tanaka, Deputy Executive Officer, Legislative, Public Affairs & Media
Josephine Lee, Sr. Deputy District Counsel, Legal
Alicia Lizarraga, Sr. Public Affairs Manager, Legislative, Public Affairs & Media
Phillip Crabbe, Sr. Public Affairs Manager, Legislative, Public Affairs, & Media

Michael Morris, Planning & Rules Manager, Planning, Rule Development and Implementation
Evangelina Barrera, Sr. Public Affairs Officer, Legislative, Public Affairs & Media
Brisa Lopez, Administrative Assistant I, Legislative, Public Affairs & Media

Call to Order/Opening Remarks

Advisory Group Chair Veronica Padilla-Campos called the meeting to order at 12:05 p.m., and roll call was taken.

Agenda Item #1: Approval of the Meeting Minutes for February 23, 2024, May 24, 2024, and August 30, 2024; and Agenda Item #3: Goals and Objectives

Ana Gonzalez moved to approve the meeting minutes from February 23, 2024, May 24, 2024, and August 30, 2024, and the Goals and Objectives in one motion. Manuel Arredondo seconded the motion. Motion passed.

Ayes: Advisory Group Chair Padilla-Campos, Supervisor Hagman, Arredondo, Atcitty, Balderas, Beeson, Briceño, Choe, Doi, Gongora, Gonzalez, Hart, and Rodriguez.

Absent: Solache, Alcantar, Bilodeau, El-Hasan, Figueroa, Garcia, Johnson, Lugo, Marquez, Smith, and Yanez.

For more information, refer to [Webcast](#) beginning at 30:14.

Agenda Item #2: Review of Follow-Up/Action Items

1. Members requested an update on Rule 1135 as a future agenda item.

The item was included in the agenda.

2. Members requested update on Assembly Bill (AB) 98, regarding warehouses.

The item was included in the agenda.

For more information, refer to [Webcast](#) beginning at 09:39.

Agenda Item #4: Update on Assembly Bill (AB) 98: Planning and zoning: logistics use: truck routes.

Phillip Crabbe, Sr. Public Affairs Manager, Legislative, Public Affairs, & Media, provided an update on AB 98: Planning and zoning: logistics use: truck routes. Supervisor Curt Hagman asked if there was consideration of any legal action due to the lack of funding to proceed. Mr. Crabbe said he was not aware of any legal action on this matter.

Ms. Gonzalez asked whether South Coast AQMD could allocate some Indirect Source Rule (ISR) funds to complete the report given that South Coast AQMD already has data, and whether it would be possible to work with the state legislature to request matching funds. Ian MacMillan, Assistant Deputy Executive Officer, Planning, Rule Development and Implementation, stated that it is unknown if the penalty fees would be enough to cover the cost of implementing the bill and conducting the study.

For more information, refer to [Webcast](#) beginning at 10:23.

Agenda Item #5: Update on Rule 1135: Emissions of Oxides of Nitrogen from Electricity Generating Facilities

Michael Morris, Planning & Rules Manager, Planning, Rule Development and Implementation, presented an overview and update on Rule 1135: Emissions of Oxides of Nitrogen from Electricity Generating Facilities.

Rafael Yanez asked whether wind technology has been studied. Mr. Morris confirmed that wind patterns have been studied. Advisory Group Chair Padilla-Campos inquired when the land at Middle Ranch would be available for use. Mr. Morris indicated that Middle Ranch is available with restrictions and the operator is looking at that option. Angie Balderas inquired whether solar technology was going to be used at Middle Ranch. Mr. Morris responded that renewable energy sources are preferred.

For more information, refer to [Webcast](#) beginning at 32:57.

Agenda Item #6: 2025 Meeting Schedule

Alicia Lizarraga, Senior Public Affairs Manager, Legislative, Public Affairs, & Media, provided an update on the meeting schedule for 2025 which will be provided to EJAG Members. The next meeting is scheduled for February 28, 2025.

For more information, refer to [Webcast](#) beginning at 53:12.

Agenda Item #7: Member Updates/Other Business

Ms. Gonzalez requested a presentation on the permitting process for crematoriums. She also requested an update on rulemaking related to Ports.

Action Item: Provide presentation on the permitting process for crematoriums.

Susan Nakamura, Chief Operating Officer, stated that updates on the Port ISR cannot be provided at EJAG due to potential Brown Act conflicts. Ms. Nakamura requested staff to send EJAG members the date for future Port Working Group meeting.

Action Item: Send EJAG members date of Port Working Group meeting.

Kerry Doi requested a presentation on ozone and PM2.5 emission reductions.

Action Item: Provide presentation on ozone and PM2.5 emission reductions.

For more information, refer to [Webcast](#) beginning at .

Agenda Item #8: Public Comment

No public comment.

Agenda Item #9: Next Meeting Date

The next regular EJAG meeting date is February 28, 2025.

Adjournment

Advisory Group Chair Veronica Padilla-Campos adjourned the meeting at 12:57 p.m.



Progress in Reducing NOx and PM Emissions

Environmental Justice Advisory Group Meeting

Eric Praske
Program Supervisor
State Implementation Plan Development

1

1

Outline



Ozone and PM2.5 production, health effects, and trends



NOx and PM2.5 emission changes over the past two decades



Significant regulations and programs that reduced emissions over the past two decades



Overview of the 2022 AQMP NOx control strategy to meet the 2015 ozone standard

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Our Challenge



Los Angeles c. 1950

Our region has historically suffered from some of the worst air quality in the United States

We have made significant progress, but still suffer from poor air quality

- Worst ozone (smog) in the nation
- Among the worst fine particulate matter (PM2.5)

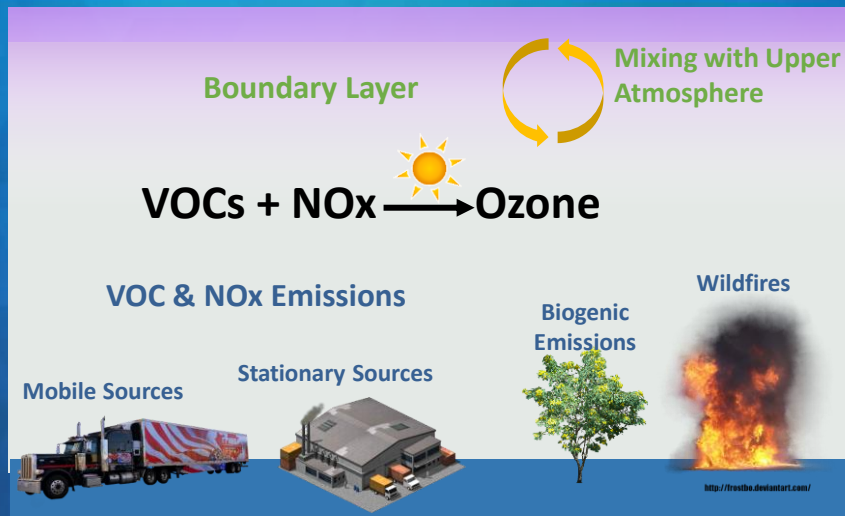


Los Angeles Recent Condition (2018)

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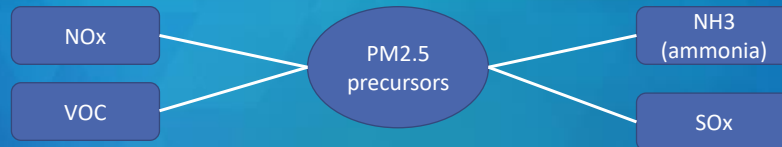
Ozone Formation



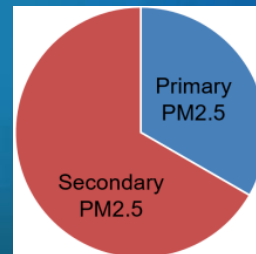
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PM2.5 Precursors and Composition



- PM2.5 is both directly emitted and formed secondarily via reactions of precursors in the atmosphere
- Approximately 1/3 of the PM2.5 in the Basin is directly emitted while the remainder is secondary
- NOx and VOCs contribute to both ozone and PM2.5 formation



South Coast Air Basin
PM2.5 Composition

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5

Ozone Health Effects

Health Impacts of Ozone Exposure



Coughing
and Sore
Throat



Aggravation of
Emphysema
and Chronic
Bronchitis



Increased
Susceptibility to
Infection



Airway Inflammation
and Damage



Asthma Attacks

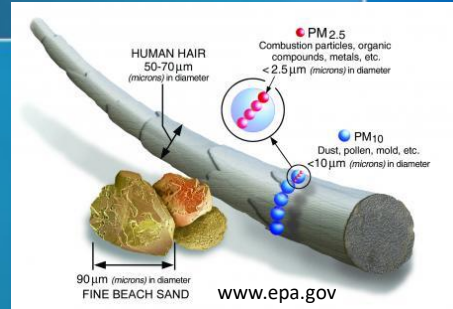
Short-term ozone exposure can cause **adverse health problems**, including damage to lungs and airways, increased respiratory inflammation, worsening asthma symptoms, changes in heart function, and in some cases premature death

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PM2.5 Health Effects

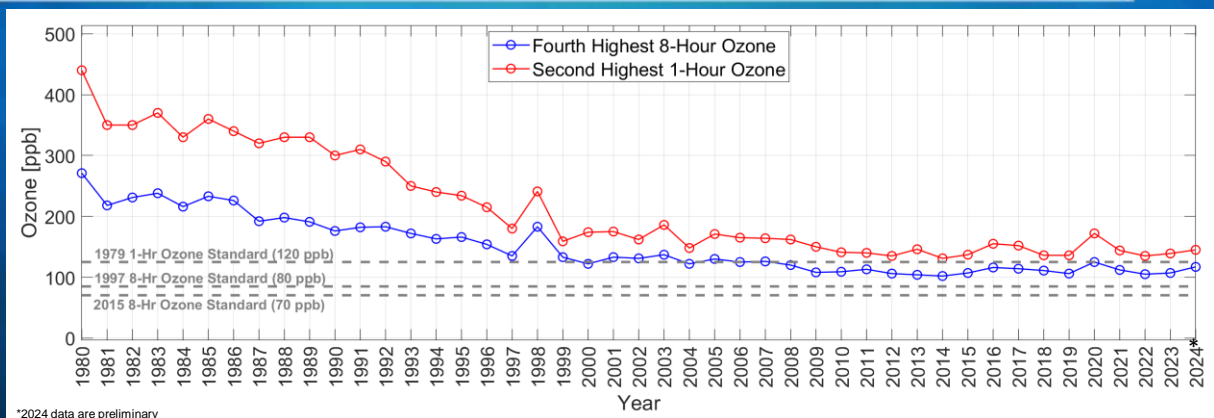
- PM2.5 is particulate matter less than 2.5 μm in diameter
- Linked to adverse cardiovascular and respiratory health effects including premature death, asthma, and lung cancer
- Evidence suggests link to metabolic system, nervous system, cognition, and reproductive and developmental effects
- Exposure to PM2.5 drives majority of public health costs due to air pollution in our region



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South Coast Ozone Air Quality Progress



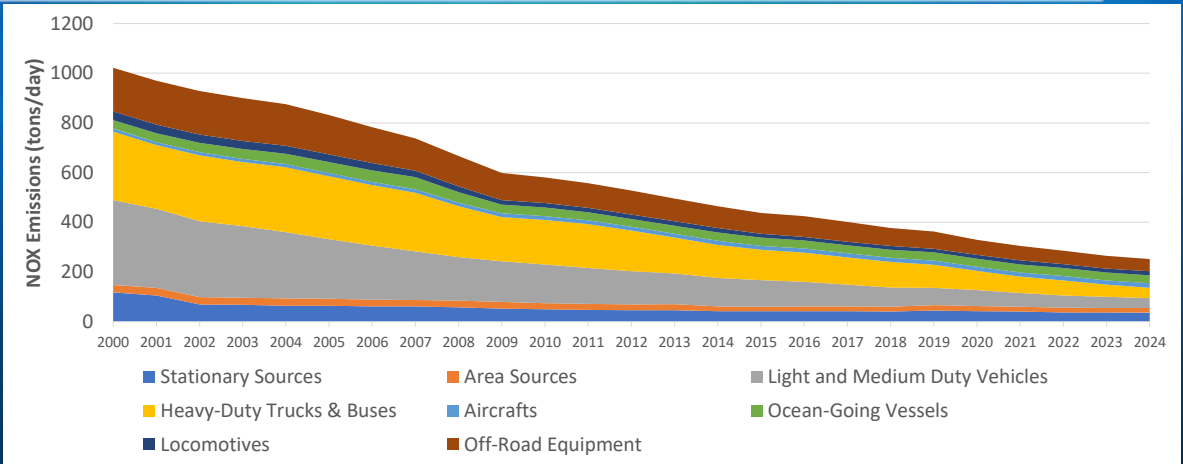
*2024 data are preliminary

- Overall air quality has dramatically improved
- High ozone in recent years was due to adverse meteorology. Continued emission reductions will improve ozone

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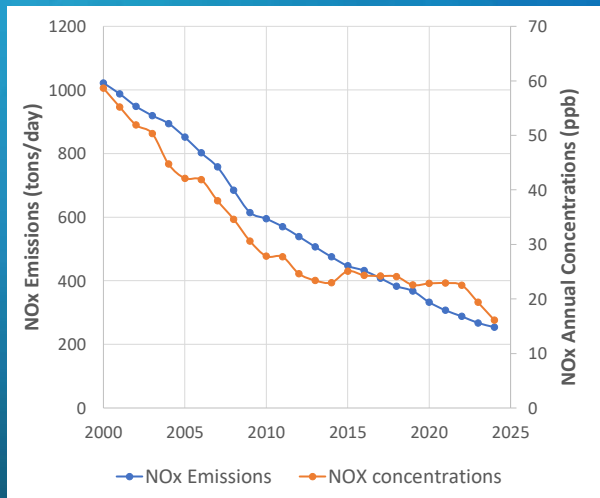
NOx Emission Changes



Emissions based on the inventory from the recent PM2.5 Plan adopted in 2024:
[https://www.aqmd.gov/home/air-quality/air-quality-management-plans/other-state-implementation-plan-\(sip\)-revisions/2012-annual-pm2-5-plan](https://www.aqmd.gov/home/air-quality/air-quality-management-plans/other-state-implementation-plan-(sip)-revisions/2012-annual-pm2-5-plan)

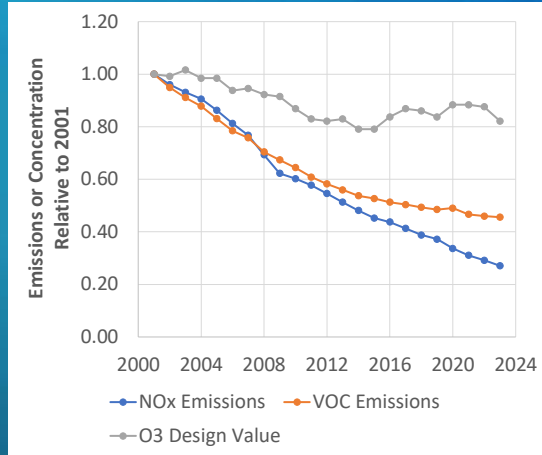
NOx Emissions and Concentrations

- Decline in NOx concentrations generally follows the decrease in NOx emissions over the last 3 decades



Ozone Concentrations and Precursors

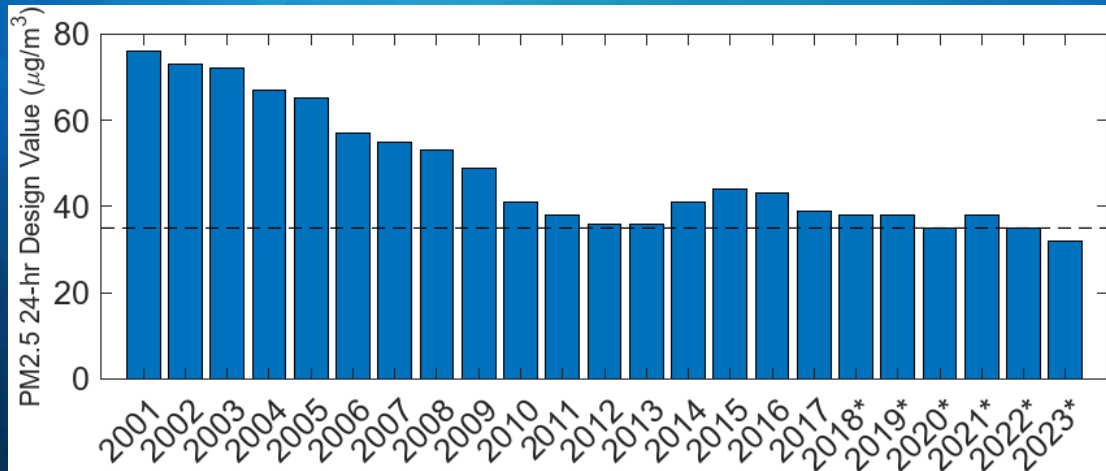
- Emissions of ozone precursor emissions have been decreased by more than 50% since 2001
- Ozone concentrations have not declined as fast, due to complex ozone chemistry and adverse meteorology
- Modeling analyses suggest that we need to continue reducing NOx emissions drastically to bring ozone concentrations down



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11

24-hour PM2.5 Trend in the South Coast Air Basin

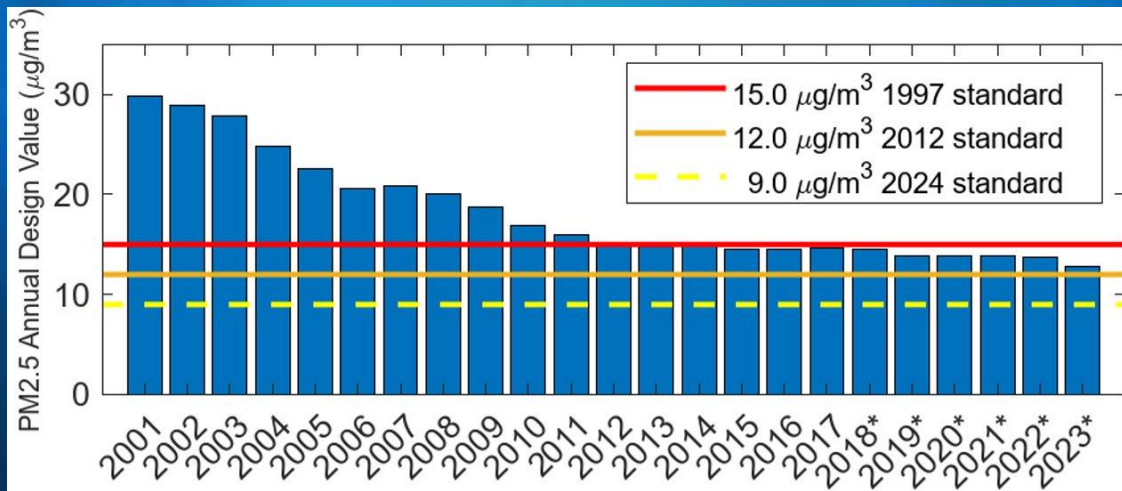


*Data likely to be approved as exceptional events by U.S. EPA were removed.

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Annual PM2.5 Trend in the South Coast Air Basin

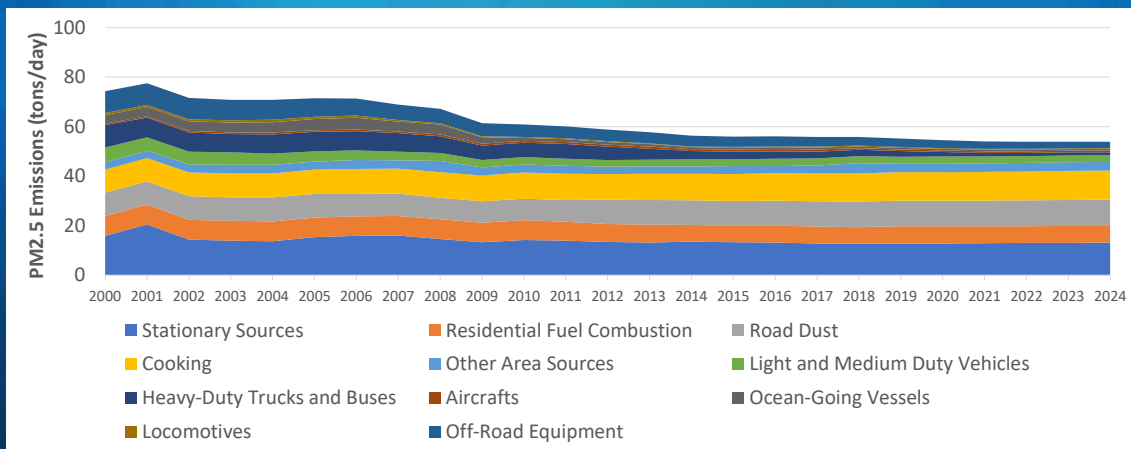


*Data likely to be approved as exceptional events by U.S. EPA were removed.

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Direct PM2.5 Emission Changes



Emissions based on the inventory from the recent PM2.5 Plan adopted in 2024:

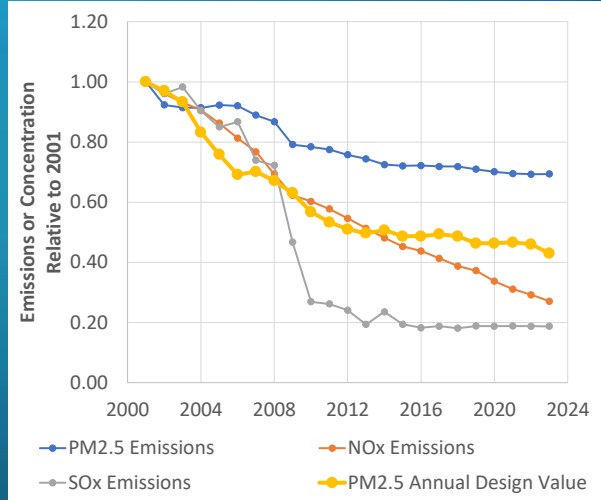
[https://www.aqmd.gov/home/air-quality/air-quality-management-plans/other-state-implementation-plan-\(sip\)-revisions/2012-annual-pm2-5-plan](https://www.aqmd.gov/home/air-quality/air-quality-management-plans/other-state-implementation-plan-(sip)-revisions/2012-annual-pm2-5-plan)

14

14

PM2.5 Concentration and Precursors

- One third of PM2.5 is directly emitted and the rest is formed in the atmosphere from its precursors
- While direct PM2.5 emissions have declined by 25% since 2001, annual PM2.5 concentrations have decreased by nearly 60% because of large reductions in PM2.5 precursors like NOx and SOx

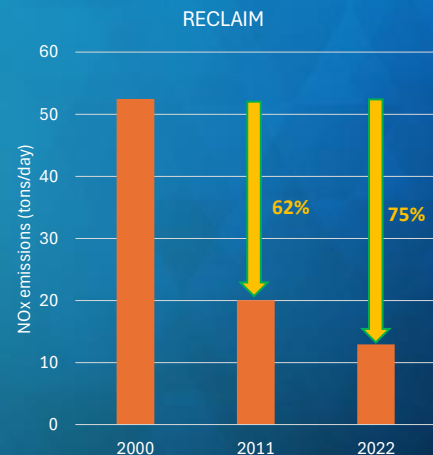


15

15

Key Stationary Source Regulations and Programs That Reduced Emissions

- South Coast AQMD's Regional Clean Air Incentives Market (RECLAIM) has played a pivotal role in reducing NOx emissions from stationary sources
 - 1st NOx shave adopted in 2005 reduced emissions by 7.7 tons/day from 2007 to 2011
 - 2nd NOx shave adopted in 2015 reduced emissions by 12 tons/day from 2016 to 2022
 - The 2016 AQMP committed an additional 5 tons/day of reductions by 2025
- Rule 1109.1 will further reduce NOx emissions by 7.7 – 7.9 tons/day by 2035 from refineries



16

16

Key Mobile Source Regulations That Reduced Emissions

Major Mobile Source Regulations Adopted Since 2000	Implementation Began	Emission Source
School Zone Idling	2003	Heavy-Duty Vehicles
Heavy-Duty Diesel NOx Standards	2004/2007/2010	Heavy-Duty Vehicles
Commercial Vehicle Idling	2005	Heavy-Duty Vehicles
Public Fleet Rules	2006-2008	Heavy-Duty Vehicles
Large Spark Ignition Fleet Regulation	2007	Off-Road Vehicles
Cargo Handling Equipment Regulation	2007	Off-Road Vehicles
U.S. EPA's Tier 4 Engine Standard	2008	Heavy-Duty Vehicles
In-Use Off-Road Diesel-Fueled Fleets Regulation	2009	Off-Road Vehicles
Drayage Truck Regulation	2010	Heavy-Duty Vehicles
Truck and Bus Regulation	2012	Heavy-Duty Vehicles
LEV III/Alternative Clean Cars	2015	Light-Duty Vehicles
Clean Truck Check (HD I/M)	2023	Heavy-Duty Vehicles

17

17

Key Mobile Source Incentive Based Programs

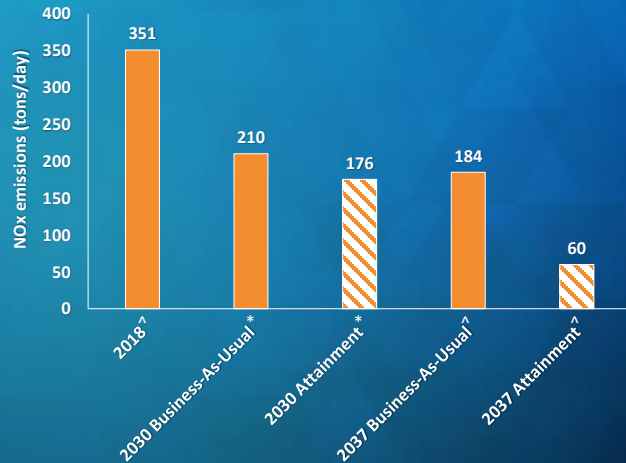
Key Mobile Source Incentive Programs	Emission Source
Proposition 1B Incentive Program	Heavy-Duty Vehicles
Carl Moyer Incentive Program	Heavy-Duty Vehicles
Enhanced Fleet Modernization Plus Up	Light-Duty Vehicles
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project	Heavy-Duty Vehicles
Lower-Emission School Bus Program	Heavy-Duty Vehicles
AB 617 Community Air Protection Program	Heavy-Duty Vehicles

18

18

Future NOx Emission Reductions

- NOx emissions will continue to decline to 210 and 184 tons/day by 2030 and 2037, respectively, due to the ongoing implementation of existing rules
- NOx emissions must be reduced to 176 and 60 tons per day by 2030 and 2037, respectively, to meet federal air quality standards
- Achieving these reductions requires a transition to zero emission technology wherever feasible



^{*} Based on annual average emissions from the South Coast Air Basin Attainment Plan for the 2012 Annual PM_{2.5} Standard

⁷ Based on summer planning emissions from the 2022 AQMP

19

19

Conclusion



Air quality improvements have been driven by significant emission reductions from stationary and mobile sources



Although NOx reductions will further reduce ozone and PM_{2.5}, meeting federal air quality standards will require significant additional emission reductions



The amount of NOx reductions needed requires a transition to zero-emission technology wherever feasible across all sectors

20

20



Crematoriums

February 28, 2025

1

South Coast Air Quality Management District

- Multi-County Air Pollution Control Agency
- Population of 16.8 million (about half of California State's population)
- Area of 10,743 square miles
- Regulates over 26,000 Stationary Sources
 - ~66,000 active permits



2

South Coast Air Quality Management District

- Our mission is to clean the air and protect the health of all residents in the South Coast Air District through practical and innovative strategies
- Responsible for regulating sources of air pollution to meet state and federal air quality standards
- The Engineering and Permitting Division has primary responsibility for evaluating and permitting equipment which emits or controls air pollution
 - Permits ensure equipment will comply with all applicable South Coast AQMD rules and state and federal regulations
- South Coast AQMD inspectors periodically conduct unannounced inspections to verify compliance

3

Permitting Process

- South Coast AQMD implements a variety of rules and regulations to limit emissions in our communities
- Each facility is responsible for obtaining land use approvals separately from this permitting process, which focuses exclusively on air quality and air emissions

Facilities must apply for a permit prior to operating any equipment that emits or controls air pollutants

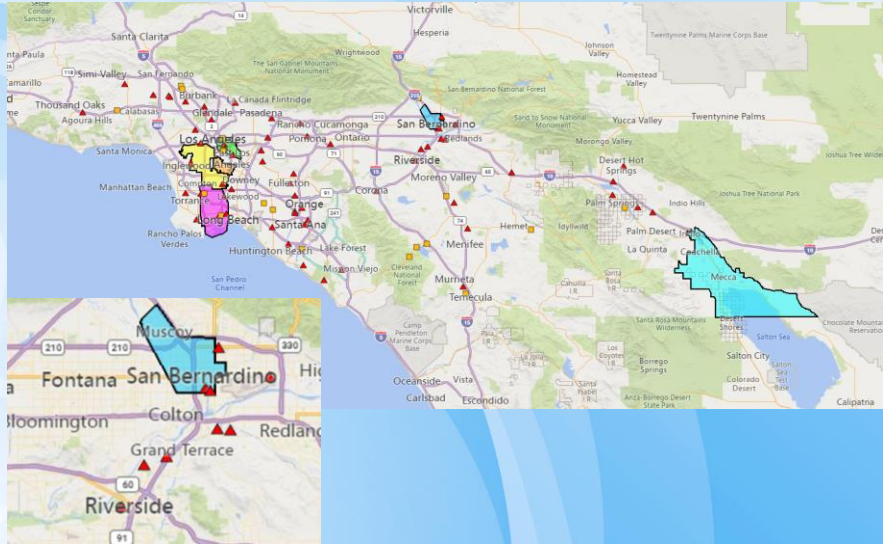
Staff evaluates the potential emissions, health risks, and ensures compliance with federal, state, and local rules and regulations

The South Coast AQMD permit is issued after the equipment is determined to comply with all applicable rules and regulations

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Crematories

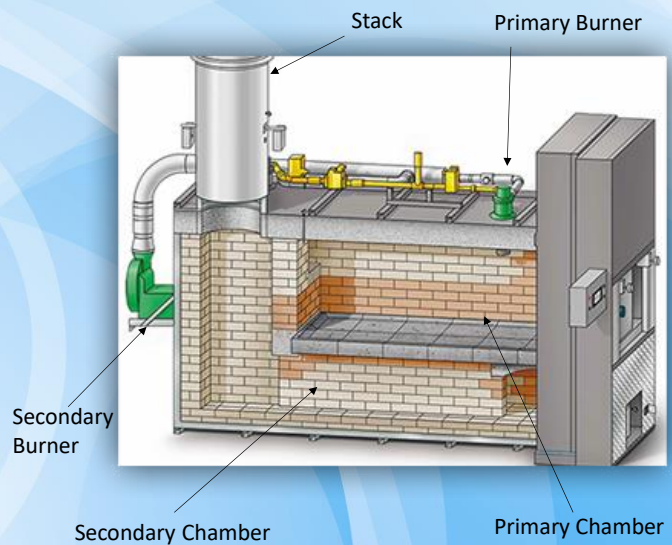
- South Coast AQMD has permitted 222 crematories at 88 facilities
- Crematories are permitted for the incineration of humans and animals (159 human and 63 animal)
- All crematories are operated exclusively using natural gas



5

Cremation Process

- A crematory consists of two chambers:
 - Primary – where cremation occurs
 - Secondary – emission control
- Materials to be cremated are placed inside the primary chamber for 60 to 90 minutes
- During the cremation process, emissions from the primary chamber are vented to the secondary chamber for destruction
- Cremation cannot start until secondary chamber gets to a certain temperature



6

Applicable South Coast AQMD Rules

- Rule 1147 – Miscellaneous Combustion
 - Establishes NOx limit of 30 ppm for crematory furnaces
 - Exempt from NOx limit, if emissions less than 1 lb/day of NOx
- Rule 1401 - Toxic Air Contaminants (TACs) for New or Modified Sources
 - Establishes health risk thresholds for new or modified sources
 - Must install additional controls or limit use if emissions greater than health risk thresholds



7

About Health Risk Assessments (HRA)

- HRA estimates the chance a person will experience a health effect from emissions of toxic air contaminants from a facility
- Follow the procedures established by State of California - Office of Environmental Health Hazard Assessment (OEHHA)
 - Based on the nearest worker and sensitive receptor
 - Conservatively assumes a person is outdoors and continuously exposed to the highest levels of emissions for 24 hours/day and 7 days/week
- For crematories:
 - HRA is calculated using worst case scenarios for all toxic air contaminants generated from the cremation process, including from the materials cremated and natural gas combustion in the burners
 - Emission factors for the toxic air contaminants were updated in December 2024 to ensure the most accurate factors representative of crematory operations are used
 - Emission factors are the same for both human and animal remains except for mercury, which is only present in humans

8

Compliance and Enforcement

- After air quality permits are issued, inspectors perform routine, unannounced inspections of facilities to ensure all operations are conducted in accordance with permit requirements
- If the public observes smoke or smells odors from these facilities or for any air quality concerns, air quality complaints may be filed by calling 1-800-CUT-SMOG, online at www3.aqmd.gov/webappl/complaintsystemonline/NewComplaint.aspx, or using South Coast AQMD's mobile app
- Inspectors will typically respond to each complaint

9

More Information

- Facility permits, emissions, and compliance history are available online through the F.I.N.D. Web Application
www.aqmd.gov/nav/FIND/facility-information-detail

The screenshot shows the 'Facility Information Detail (F.I.N.D.)' web application. At the top left is the South Coast AQMD logo. The page title is 'Facility Information Detail (F.I.N.D.)'. Below the title is a search form with the following fields: 'Select Search Type' (a dropdown menu with options: 'Find a Facility', 'Find a Facility', 'Facility ID', 'Application Number', 'NDV or NC', 'Hearing Board Case'), 'Name', 'Street', 'City', and 'Zip'. To the right of these fields are checkboxes for 'RECLAIM' and 'TITLE V', and a 'SEARCH' button with a magnifying glass icon.

10

Contacts



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