South Coast Air Quality Management District Assembly Bill 617 (AB 617) Diesel Mobile Sources Workshop



Dr. Pami Mukherjee Air Quality Specialist Community Engagement & Air Programs

Who is South Coast Air Quality Management District (South Coast AQMD)?



Regional air pollution control agency in California

- Responsible for cleaning the air and protecting the health of its residents
- Encompasses Orange county and large portions of Los Angeles, Riverside, and San Bernardino counties
- Approximately 17 million people

Primary responsibilities

- Develop Air Quality Management Plan to meet federal and state air quality standards
- Control emissions from stationary sources, through adoption of air quality rules
- Regulate over 27,000 facilities
- Respond to air quality complaints
- Monitor air quality

Overview of AB 617 Program

- Signed into law July 26, 2017
- Invests resources and focuses on localized actions to reduce air pollution in disadvantaged communities
- Purposeful and ongoing involvement of community members towards the emission reductions goals



Community Air Plans

- Community Emission Reductions Plans (CERPs)
- Community Air Monitoring Plans (CAMPs)



Clean Technology Investments



Rules Requiring
Best Available
Retrofit Control
Technology (BARCT)



Easier Access to Emissions Data

AB 617 Designated Communities



South Coast AQMD AB 617 Communities

2018-Designated Communities

- East Los Angeles, Boyle Heights, West Commerce (ELABHWC)
- Wilmington, Carson, West Long Beach (WCWLB)
- San Bernadino, Muscoy (SBM)

2019-Designated Communities

- Eastern Coachella Valley (ECV)
- Southeast Los Angeles (SELA)

2020-Designated Community

• South Los Angeles (SLA)

Community Engagement

Community Steering
Committee
(CSC)

Residents

Community Leaders

Community Organizations

Government Agencies

Businesses

Industry





Community Emissions Reduction Plans (CERPs)

CERP Elements

Air Quality Priorities

Goals

Strategies



CERP Strategies

Air Monitoring

Focused Enforcement

Inter-Agency Collaboration

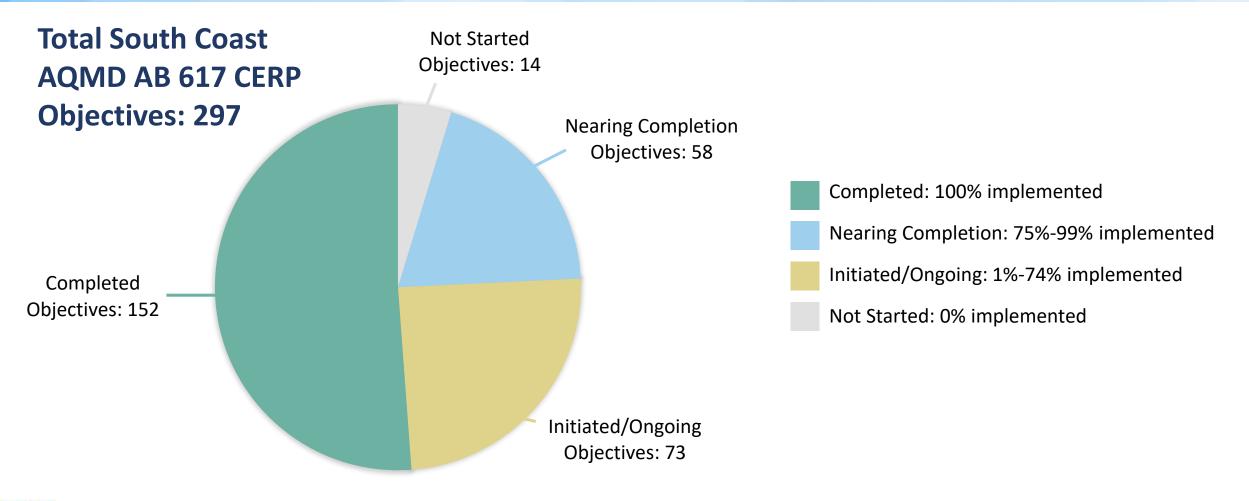
Incentive Programs

Public Information and Outreach

Rules and Regulations

Progress of CERP Implementation

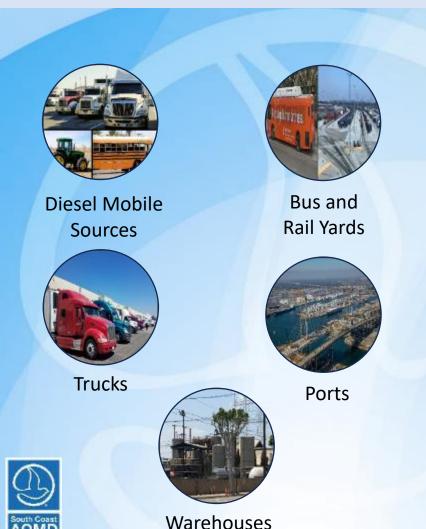
(As of March 31, 2025)





Community-Identified Air Quality Priority

Diesel Mobile Sources Emissions is an Air Quality Priority in each of the CERPs



SBM

25 CERP Objectives

ELABHWC

• 15 CERP Objectives

WCWLB

• 20 CERP Objectives

ECV

• 7 CERP Objectives

SELA

20 CERP Objectives

SLA

• 13 CERP Objectives

Workshop Goals and Objectives









Learn about impacts of various diesel mobile sources emissions on air quality and public health

Inform
community
about ongoing
regulatory and
incentive
efforts to
mitigate these
impacts

Share available resources to reduce emissions and exposure

Community participation through theme-based interactive sessions



Workshop Agenda

Impact of Diesel Mobile Sources on Air Quality and Public Health

Dr. Jill Johnston, University of California, Irvine
Laurel Plummer, Office of Environmental Health Hazard Assessment

Diesel mobile sources/truck traffic: Monitoring Strategy

Dr. Julia Montoya-Aguilera, South Coast Air Quality Management District

Multiple Air Toxics Exposure Study

Dr. Nico Schulte, South Coast Air Quality Management District

- Community Interactive Session I: Risk Assessment Map
- Enforcement Effort

Dr. Crystal Reul-Chen, California Air Resources Board Victor Yip, South Coast Air Quality Management District

- Community Interactive Session II: Community Concerns Identification Exercise
- Clean Air Incentive Projects

Alyssa Yan, South Coast Air Quality Management District

Community Interactive Session III: Open Discussion



AIR QUALITY AND HEALTH EFFECTS

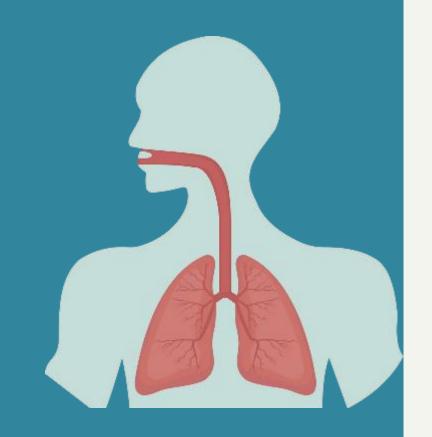
Jill Johnston, PhD



UC Irvine Joe C. Wen School of Population & Public Health Department of Environmental & Occupational Health

https://bit.ly/cejrl

Part 1: What is Diesel?



Diesel Exhaust is a Complex Mixture

Diesel Particulate Matter

Polycyclic Aromatic Hydrocarbons Elemental Carbon

Carbon Monoxide

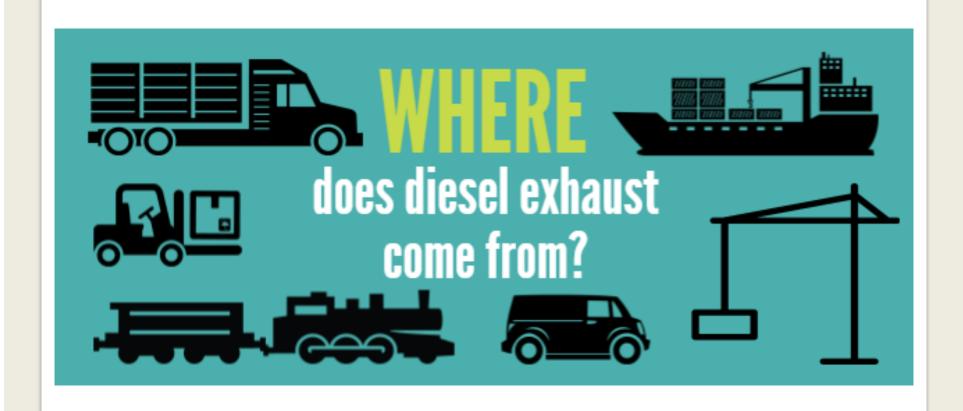
Toxic metals

Sulfur Dioxide

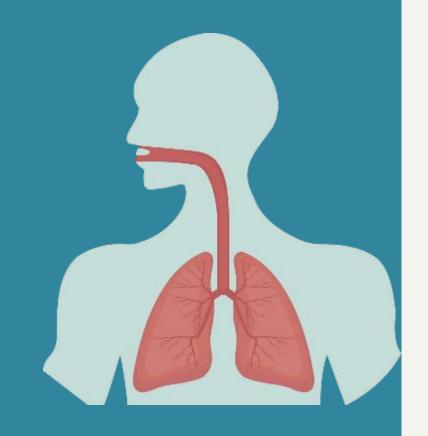
Nitrogen Oxides

Volatile Organic Compounds





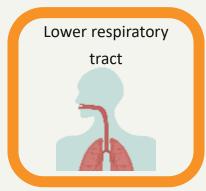
Part 2: Health Effects of Diesel Air Pollution



HEALTH IMPACTS OF PARTICULATE MATTER



When molecules are larger, they can enter the nose or throat



Smaller particles are more easily absorbed enter the lower airway and cause inflammation



Tiny particles cross into the blood and brain, and can lead to cardiovascular disease as well as cognitive defects.

Public Health Impacts of Diesel Emissions

Diesel is a toxic air contaminant (TAC).

It is estimated that diesel emissions are responsible for 70 % of California's known cancer risk from air toxics (TACs).

Diesel emissions are a significant contributor to overall PM2.5 levels

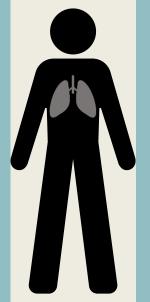
Short-term impacts:

- Irritation to the eyes, nose, throat and lungs
- Cough
- Headache
- Nausea









Long-term effects:

- Lung and Bladder Cancer
- Heart disease Reduced lung function in children
- Development of new allergies



Source: CARB (California Air Resources Board)

PUBLIC HEALTH IMPACTS ACROSS LIFE COURSE

Health Impacts of traffic-related air pollution

Infants:

- low birthweight.
 - premature
- problems with behavior learning or developing autism



- asthma attacks
- ear, nose, throat infections
 - reduced lung size
 - obesity



- - stroke

- heart attack
- lung issues
- memory loss
- shorter life span



Pregnant Parents:

- pregnancy issues / lowbirth weight
- high blood pressure



NEW RESEARCH: IMPACTS ON BRAIN HEALTH



Affects **adults** by increasing risk of:

- Alzheimer's disease and dementia
- Cognitive decline
- Parkinson's disease
- Depression symptoms

Affects children by increasing risk of:

- ADHD
- Slower processing of information
- Autism
- Depressive & anxiety symptoms

Risk Considerations of Diesel PM

WHO IS MOST AFFECTED?

Workers:

- Railroad workers
- Truck drivers
- Dock workers
- Other jobs near diesel exhaust



Residents who live near:

- Rail yards
- Ports
- Freeways with diesel trucks
- Warehouses





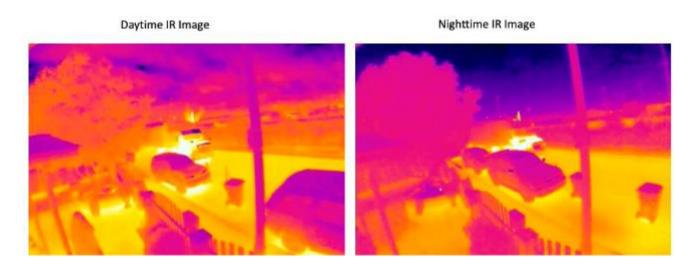


Case Study: Wilmington

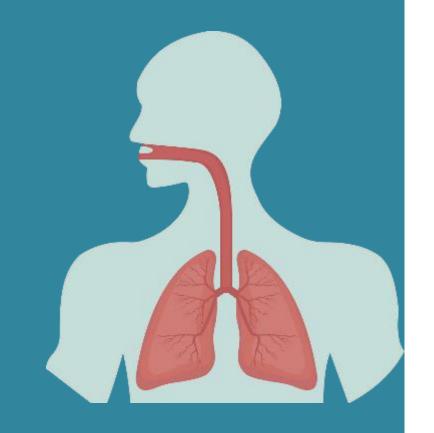
In October 2023, USC and UCI researchers recorded truck traffic on a residential street over a week in Wilmington near the Port of Los Angeles.

Truck traffic was recorded 24/7 for a week.

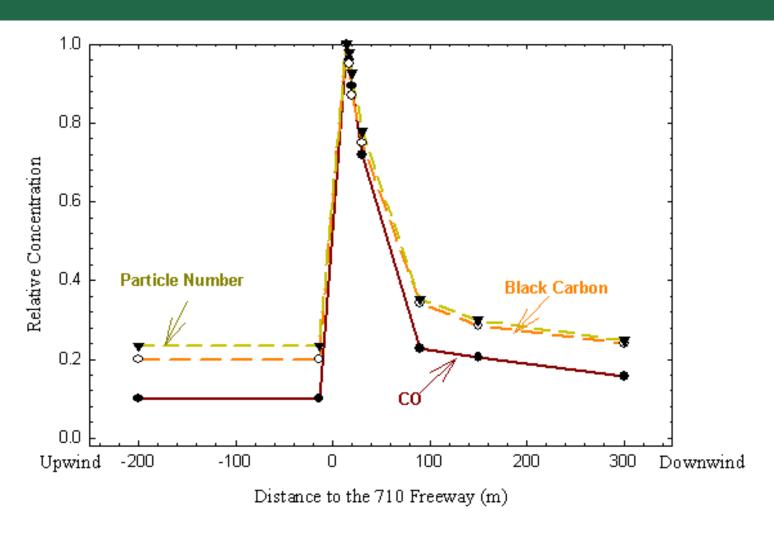
Over **17,000 trucks** passed through this street over the course of a single week



Part 3: Proximity Matters



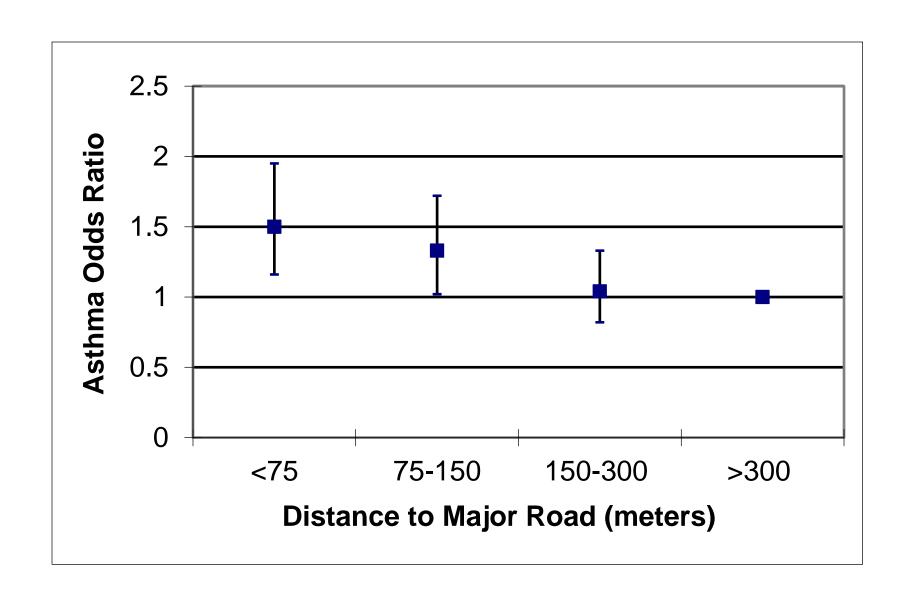
Air Quality is Worse Near a Freeway



Black carbon as diesel marker and other pollutants are high near freeway (e.g. NO2, benzene,...)

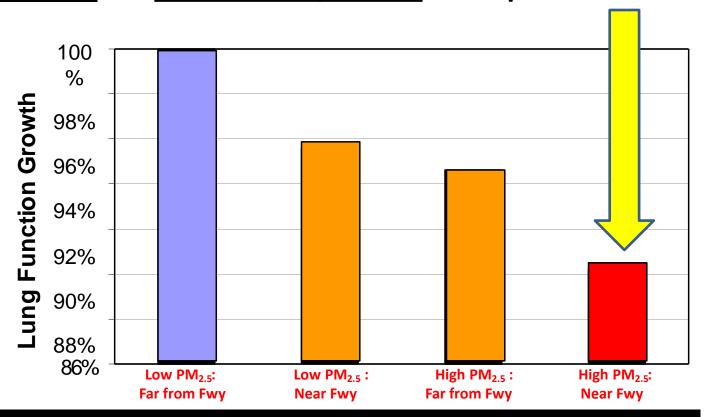
(Zhu et al., 2002, 2006)

Asthma & Proximity to Roadways



Proximity To Traffic Matters

Lungs of children who live in areas with <u>bad regional air</u> pollution and near freeway traffic are impacted the most



Regional PM_{2.5}: Freeway Distance

Credit: Jim Gauderman, USC

Summary

- Exposure to diesel exhaust is linked to lung cancer and other health effects
- Disproportionate health impacts in communities along freight transport corridors
 - Ports
 - Railyards
 - Freeways
 - Warehouses
- Zero emissions technology can improve local air quality and public health



Thank you!

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UC Irvine Joe C. Wen School of Population & Public Health Department of Environmental & Occupational Health



Driving Disparities: Vehicle Pollution and PM_{2.5} in Our Communities

Diesel Mobile Sources Workshop for AB617 Community
Steering Committees

June 12, 2025



What Are We Doing Today?

- ?
- What is the problem?

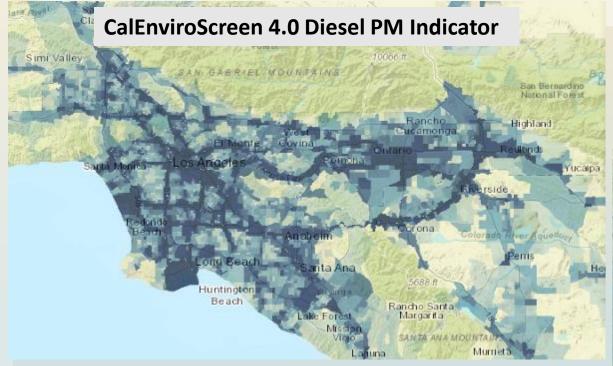
- Why does our research matter?

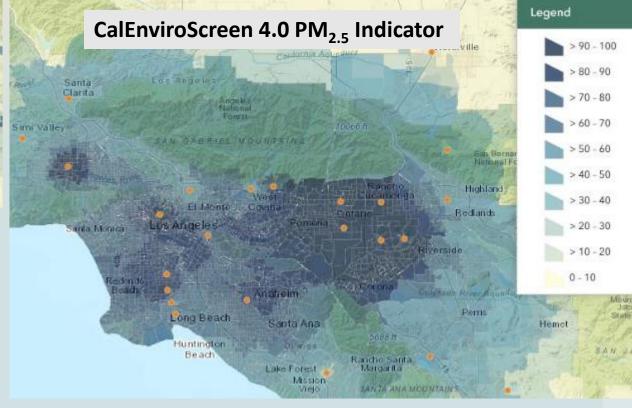
- Q
- How did we approach our research?

- \searrow
- What did we find?



What is the problem?







Source: OEHHA CalEnviroScreen 4.0

Why does our research matter?

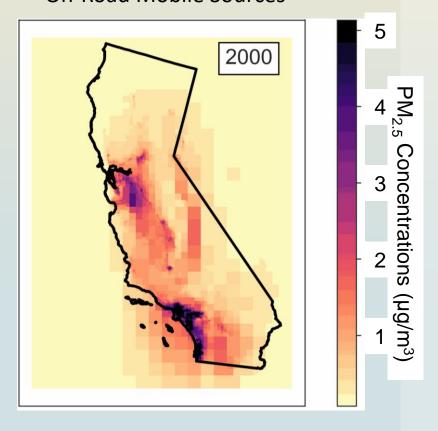




How did we approach our research?

EMFAC All Vehicles **Light-Duty** ECHO-AIR **Medium-Duty Heavy-Duty** Other Vehicles

PM_{2.5} Concentrations from All On-Road Mobile Sources

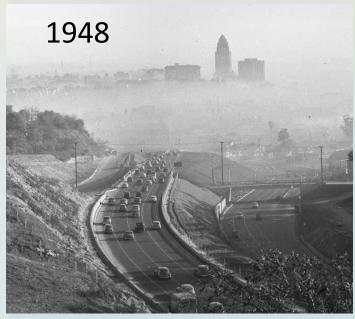


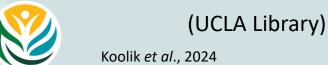


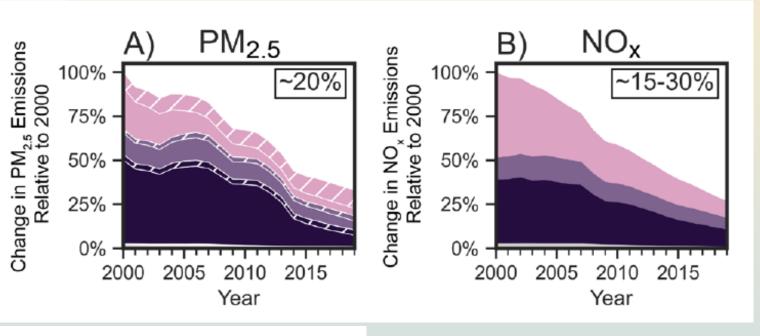
What did we find?

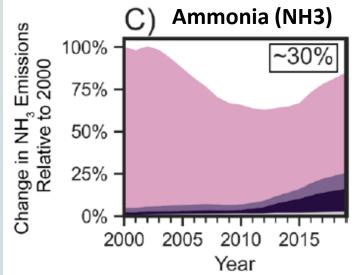


Decreased Emissions from Heavy-Duty Diesel Trucks



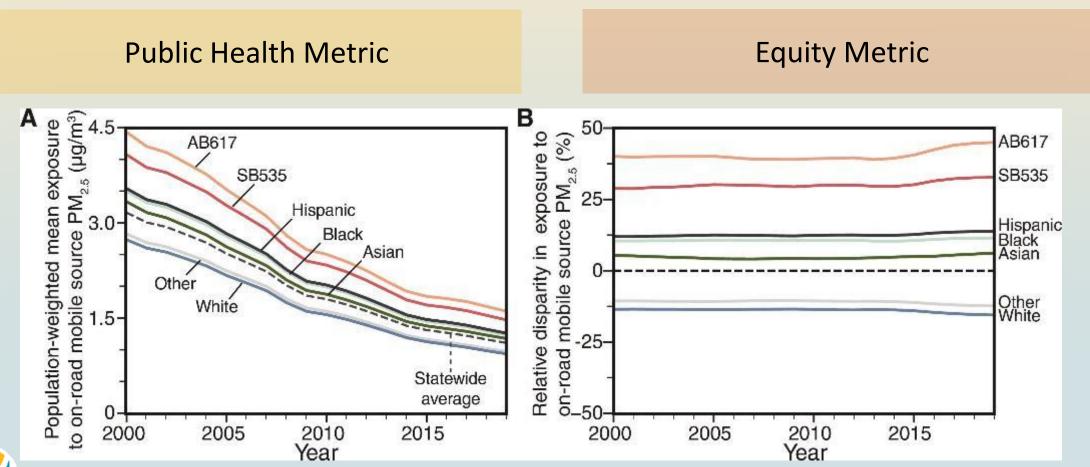








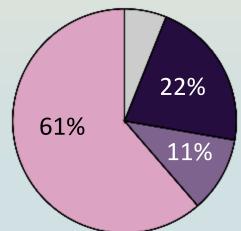
There are STILL Disparities Even with Significant Reduction in PM_{2.5} Exposure from Vehicles



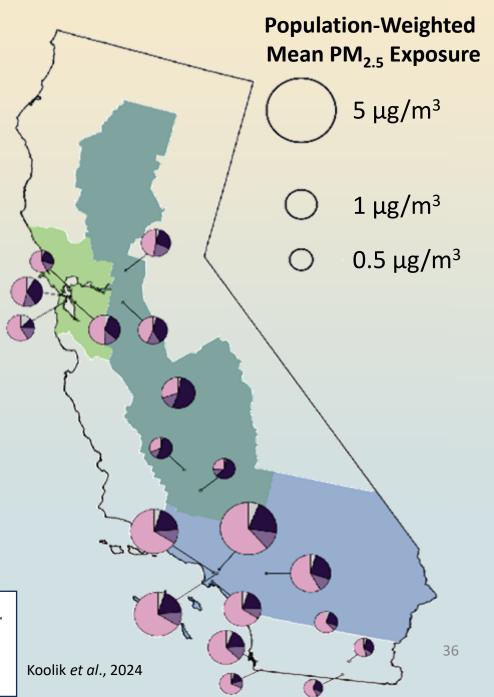


Highest PM_{2.5} Exposure from Vehicles in South Coast AB617 Communities

East Los Angeles, Boyle Heights,
West Commerce

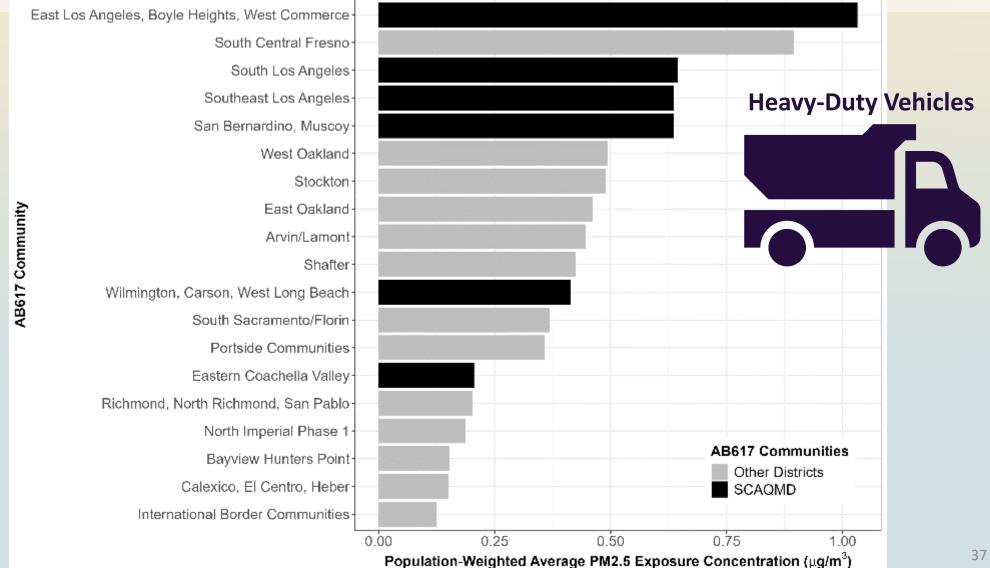








Highest Exposure to Heavy-Duty Diesel Truck **Emissions in South Coast AB617 Communities**





What did we find?

- 65% reduction in PM_{2.5} exposure from vehicles over the last 20 years, but disparities still exist
- To reduce disparities, we need placebased efforts, like the AB617 program, that are shaped by the people most affected



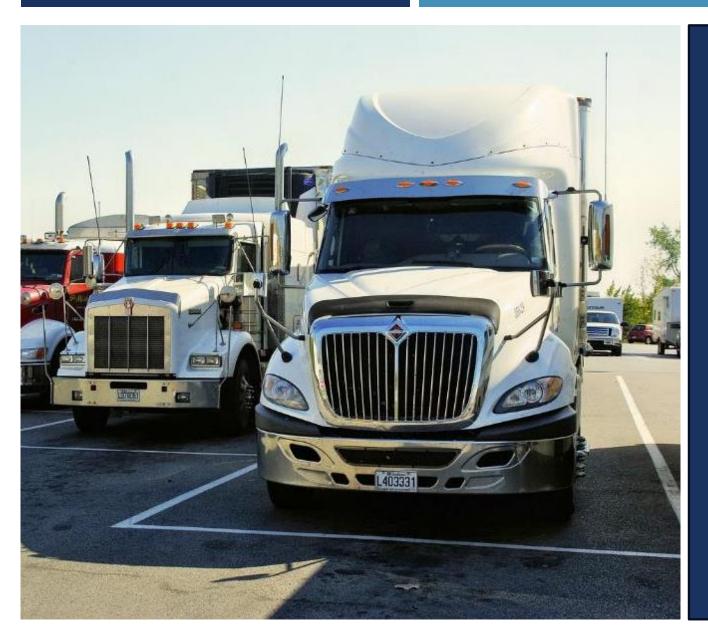


Thank you!

Laurel Plummer <u>Laurel.Plummer@oehha.ca.gov</u> Paula Torrado Plazas <u>Paula.TorradoPlazas@oehha.ca.gov</u>

Koolik LH, Alvarado Á, Budahn A, Plummer L, Marshall JD, Apte JS. 2024. PM2.5 exposure disparities persist despite strict vehicle emissions controls in California. Science Advances 10:eadn8544, https://doi.org/doi:10.1126/sciadv.adn8544





DIESEL MOBILE SOURCES/ TRUCKTRAFFIC

AIR MONITORING STRATEGY

JULIA MONTOYA-AGUILERA, Ph.D.

Air Quality Specialist jmontoya@aqmd.gov



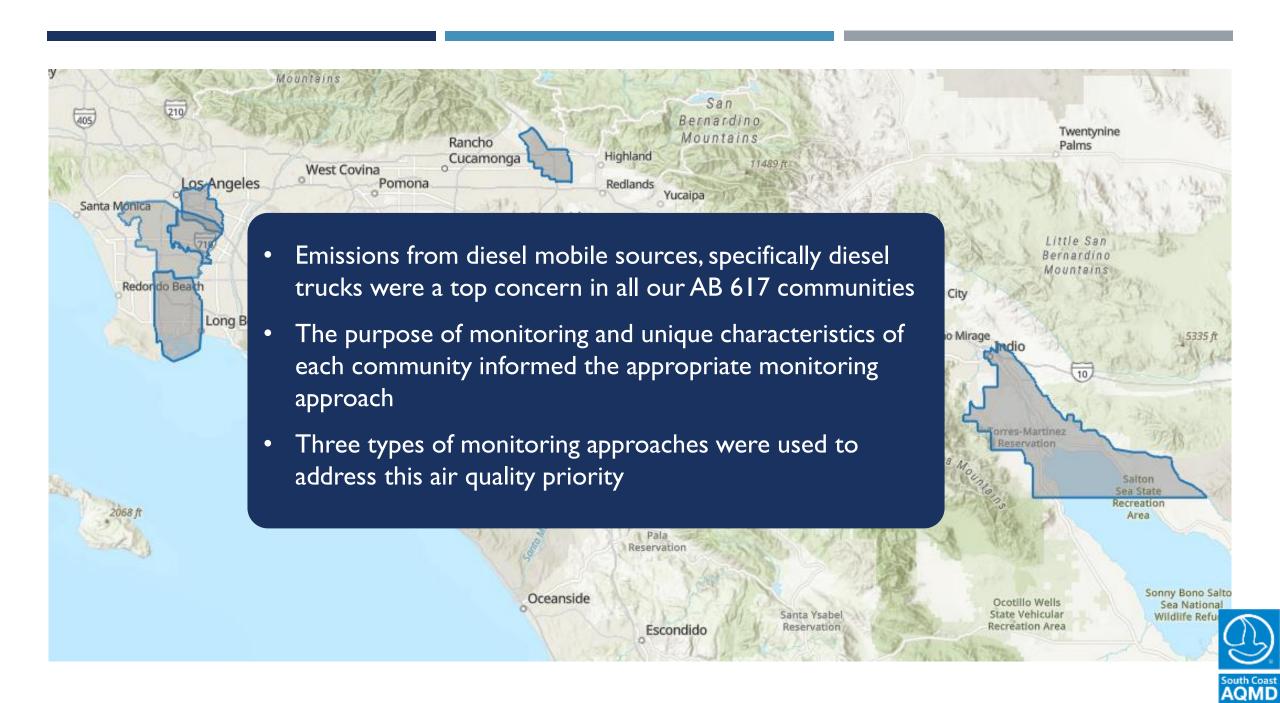
AB 617 COMMUNITY AIR MONITORING PLAN (CAMP)

Purpose: To support implementation of the Community Emissions Reduction Plan (CERP). Air monitoring strategies were selected based on community air quality priorities.

Established air monitoring goals and objectives set by the CSC

Identified air monitoring approaches selected by the CSC

Described how air monitoring data collected can support CERP actions



TYPES OF AIR MONITORING



Stationary Monitoring

Objectives

- Long-term monitoring to capture temporal trends
- Near real-time data reporting

Limitations

- Resource intensive
- Long installation time
- Measurements at only one location



Mobile Monitoring

Objectives

- Wide-area monitoring
- Identify locations with elevated levels of pollution

Limitations

- Snapshot in time
- Mostly limited to daytime measurements
- Complex data analysis and reporting



Air Quality Sensors

Objectives

- Community education and engagement
- Supplement fixed monitoring stations

Limitations

- Limited number of pollutants
- Data quality
- Unknown lifespan



YEAR I COMMUNITIES

These CAMP strategies were developed for Year 1 communities to measure emission markers from diesel mobile sources

East Los Angeles, Boyle Heights, West Commerce (ELABHWC)

Stationary monitoring

- Resurrection Church
- Central Los Angeles

Mobile monitoring

- South Coast AQMD
- Contractor

San Bernardino, Muscoy (SBM)

Stationary monitoring

San Bernardino

Mobile monitoring

- South Coast AQMD
- Contractor

Sensor network

Wilmington, Carson, West Long Beach (WCWLB)

Stationary monitoring

Nine air monitoring stations

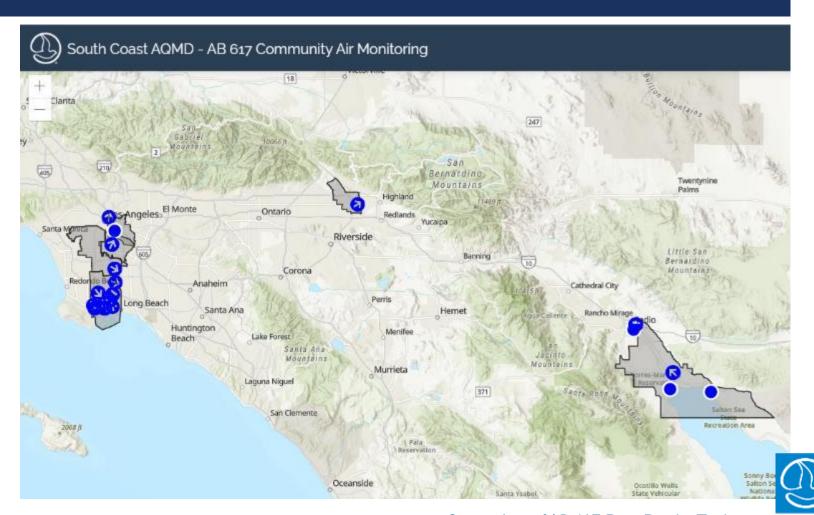
Mobile monitoring

South Coast AQMD



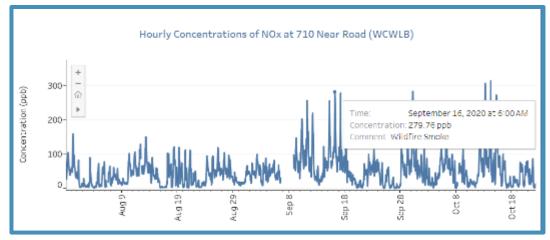
STATIONARY MONITORING

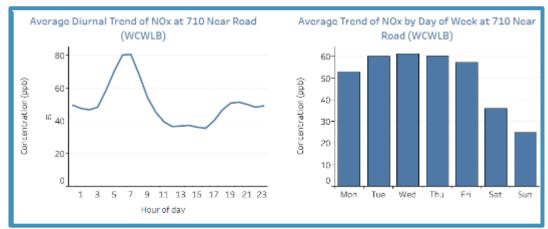
- At least one air monitoring station in each
 AB 617 community
- Stationary measurements provide nearreal time information about pollution levels in the community
 - Link to AB 617 Data Display Tool: www.aqmd.gov/ab617-data-display-tool
- Stationary measurements are used to track long-term trends in pollution levels
 - Link to Continuous Trends Analysis
 Dashboard:
 <u>www.aqmd.gov/ab617/monitoring/trends</u>



STATIONARY MONITORING

- Stationary measurements are useful for exploring trends in pollution levels over time
- Levels of oxides of nitrogen (NOx) measured at 710 Near Road site were elevated on weekdays during the morning rush hours
 - Similar observations at other air monitoring sites





MOBILE MONITORING DIESEL EXHAUST MARKERS

- South Coast AQMD and its contractor conducted comprehensive mobile measurements of diesel exhaust markers
 - Black carbon (BC), Nitrogen dioxide (NO₂),
 Particle number (PN)
- Concentration levels of these markers were slightly elevated near railyards, but were highest along freeways and major roadways
- Levels were generally lower in residential areas
- Monitoring data informed the prioritization criteria for residential filtration



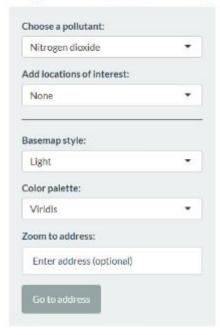
Diesel PM

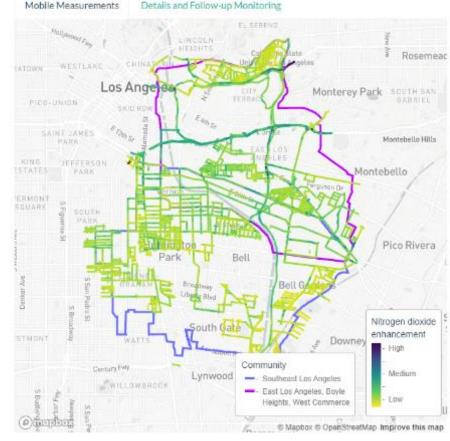
Mobile Platform



Aclima Mobile Platform

AQMD Mobile Monitoring Dashboard





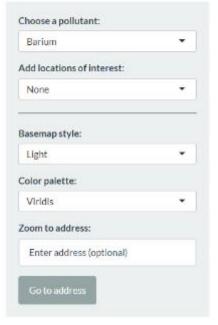


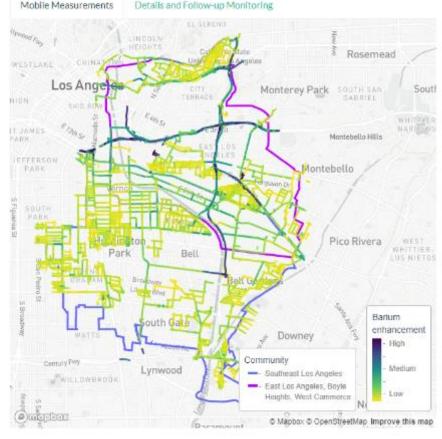
MOBILE MONITORING NON-EXHAUST POLLUTANTS

- South Coast AQMD conducted comprehensive mobile measurements of non-exhaust emission markers levels
 - Metals associated with break and tire wear emissions, including Ba, Cu, Zn, Fe
- Consistent elevated levels of metals were observed along freeways, major roadways, and on- and offramps
- Relatively elevated levels of metals were observed near some clusters of metal processing facilities
- Monitoring data was used to prioritize facilities for inspections by the compliance & enforcement team



AQMD Mobile Monitoring Dashboard







AQMD

YEARS 2 AND 3 COMMUNITIES

These CAMP strategies were developed for Years 2 and 3 communities to measure emission markers from diesel mobile sources

Southeast Los Angeles (SELA)

Stationary monitoring

Huntington Park

Mobile monitoring

South Coast AQMD

South Los Angeles (SLA)

Stationary monitoring

Compton

Mobile monitoring

South Coast AQMD

Eastern Coachella Valley (ECV)

Sensor network

Stationary monitoring

- Mecca
- Indio



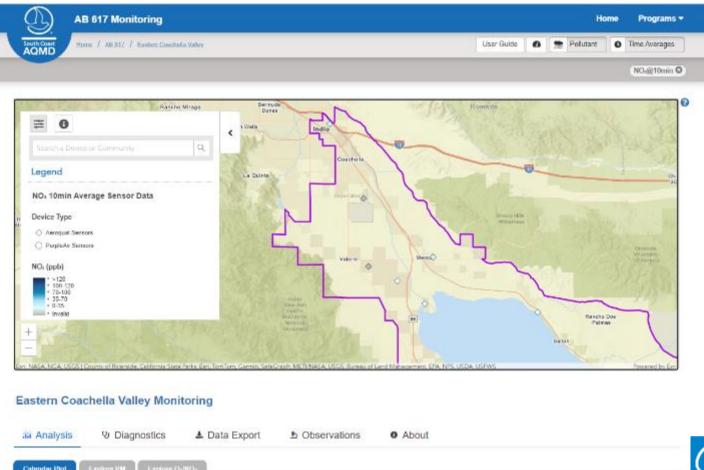
AIR QUALITY SENSORS

Purpose

- Supplement fixed monitoring station
- Provide real-time data access and visualization
- Provide tools for community education and engagement in air monitoring







STATIONARY MONITORING ECV PM/DUST CHARACTERIZATION STUDY

- In addition to truck traffic, other concerns unique to ECV include fugitive dust emissions from unpaved roads, the surrounding desert, agriculture, and the Salton Sea
- This study will help us better understand how these different sources contribute to PM in ECV

Purpose:

- Identify main sources of PM/dust
- Quantify their contributions to particle pollution in the community









AB 617 MONITORING WEBPAGE

www.aqmd.gov/ab617/monitoring



Access air monitoring plans (CAMP)

Access real-time air monitoring data (monitoring stations and air quality sensors)

Access historical air monitoring data (continuous and time-integrated samples)

Tutorial videos on how to use the data dashboards

Access informational handouts and progress reports



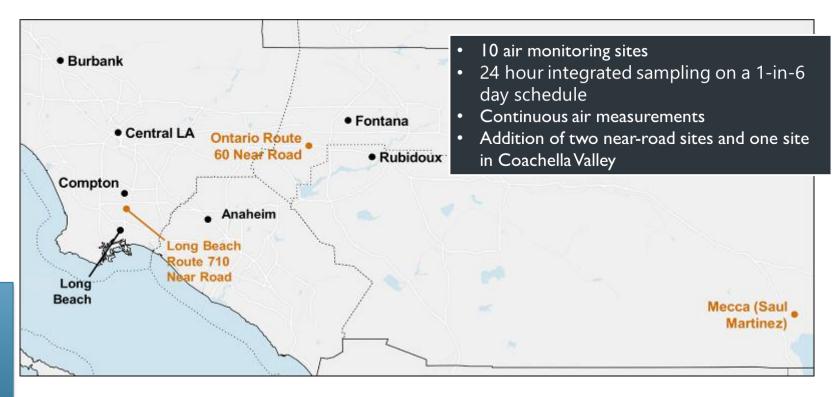
MULTIPLE AIR TOXICS EXPOSURE STUDY (MATES) VI

Goals

- Provide public information about air toxics and associated health risks throughout the region
- Evaluate progress in reducing air toxics exposure
- Provide direction to future toxics control programs

What's new?

- Mecca site added
- Study to evaluate brake and tire wear contribution to PM



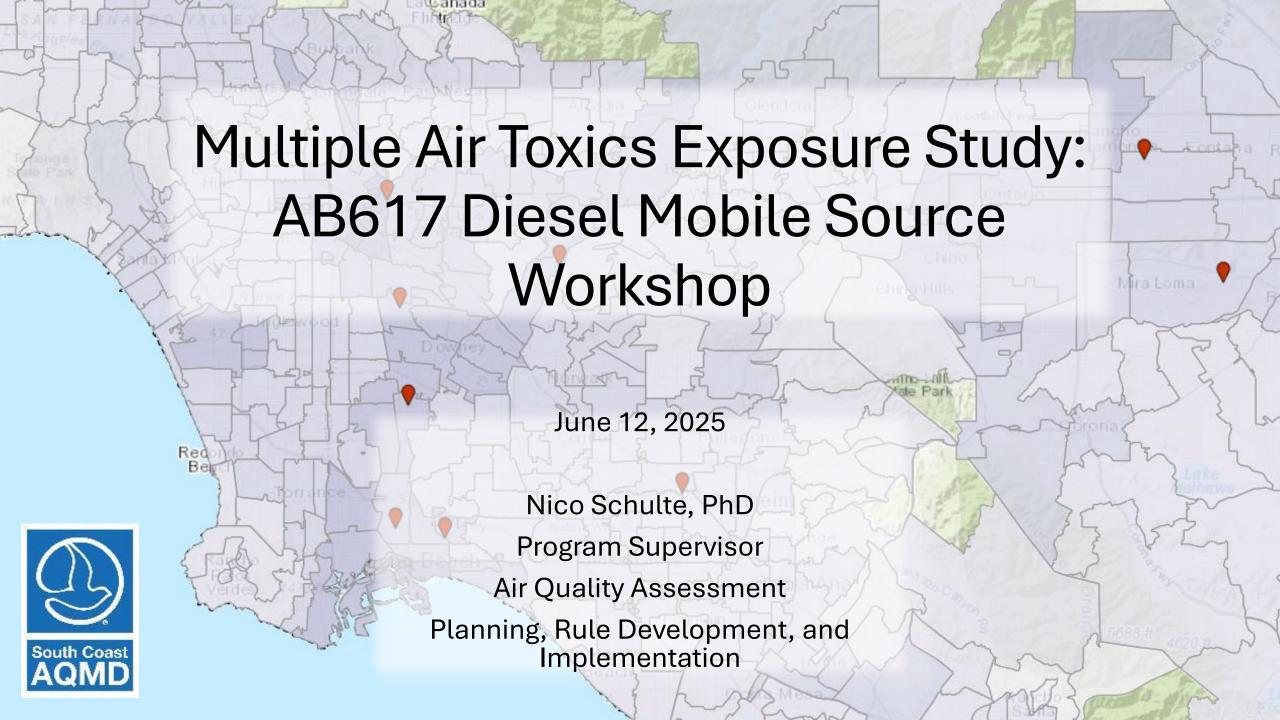
CONTACT INFORMATION



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MATES Program Overview Resumen del programa MATES

 Provide public information about air toxics and associated health risks throughout the region

Brindar información pública sobre los contaminantes tóxicos del aire y los riesgos asociados para la salud en toda la región

Evaluate progress in reducing air toxics exposure

Evaluar el progreso en la reducción de la exposición a contaminantes tóxicos del aire

Other Goals (Otros objetivos)

- Provide data for future control programs
 Proporcionar datos para futuros programas de control
- Interpret measured data Interpretar datos medidos
- Identify unknown sources
 Identificar fuentes desconocidas





How is Cancer Risk Determined?

¿Cómo se determina el riesgo de cáncer?





 Cancer Risk: The likelihood that a person will develop cancer over a 70 year lifetime after exposure to a pollutant for 30 years*

Riesgo de cáncer: La probabilidad de que una persona desarrolle cáncer durante una vida de 70 años después de estar expuesta a un contaminante durante 30 años*

 Uses methods from the California Office of Environmental Health Hazards Assessments to estimate risk

Utiliza métodos de la Oficina de Evaluación de Peligros para la Salud Ambiental de California para estimar el riesgo



*We also evaluated non-cancer risk using a different metric

También evaluamos el riesgo no cancerígeno utilizando una métrica diferente

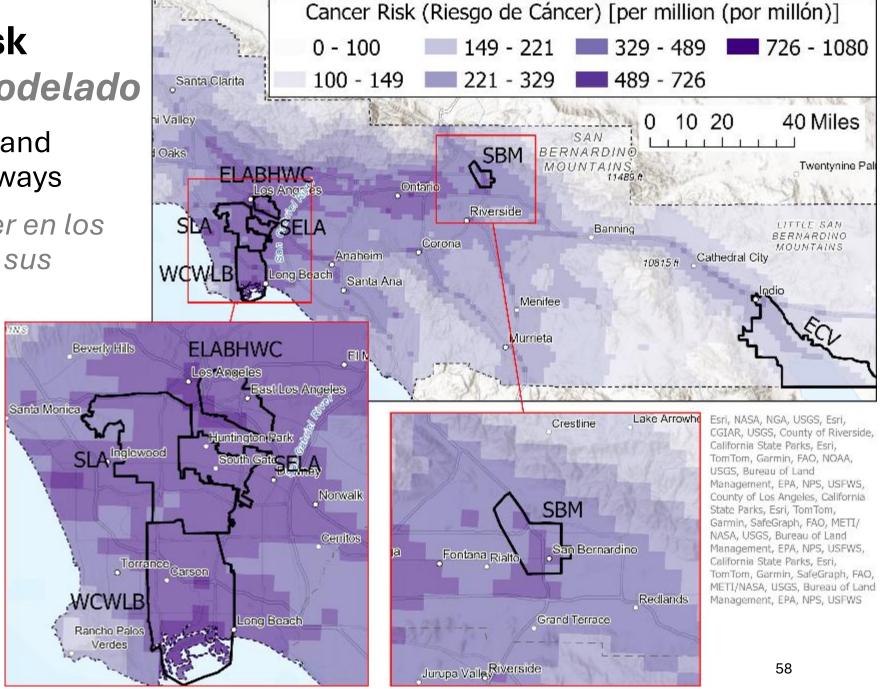
Modeled Cancer Risk Riesgo de cáncer modelado

 Highest cancer risk in and around ports and freeways

Mayor riesgo de cáncer en los puertos y autopistas y sus alrededores

 AB617 communities risk is higher than Basin averages

El riesgo en las comunidades AB617 es más alto que los promedios de la Cuenca

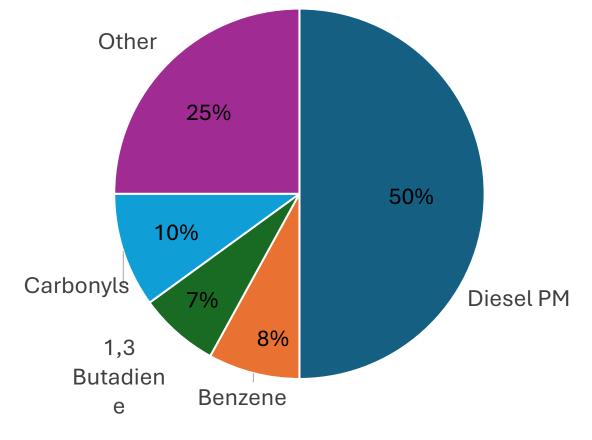


Portion of cancer risk caused by each air toxic

Porción del riesgo de cáncer causada por cada contaminante del aire

 Diesel PM is the largest contributor to air toxics cancer risk in all communities

La materia particulada (MP) de diésel es el mayor contribuyente al riesgo de cáncer por contaminantes del aire en todas las comunidades





Based on measured concentrations in MATES V
Basado en concentraciones medidas en MATES V

Diesel Particulate Matter (DPM)

La materia particulada de diésel (MPD)

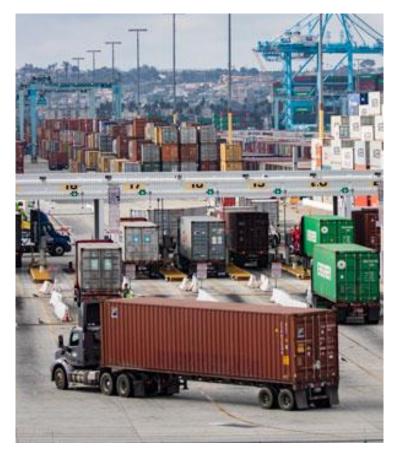
 The solid material in diesel exhaust is known as Diesel Particulate Matter (DPM)

El material sólido en las emisiones de escape diésel se conoce como materia particulada diésel (MPD)

 Composed of known or suspected cancer-causing substances such as benzene, arsenic, and formaldehyde

Compuesto por sustancias conocidas o sospechosas de causar cáncer, como el benceno, arsénico y formaldehído

- Sources (Fuentes)
 - Emissions from trucks, buses, trains, ships, and other equipment with diesel engines
 - Emisiones de los camiones, autobuses, trenes, barcos y otros equipos con motores diésel







Modeled Cancer Risk Trend ☐ ☐

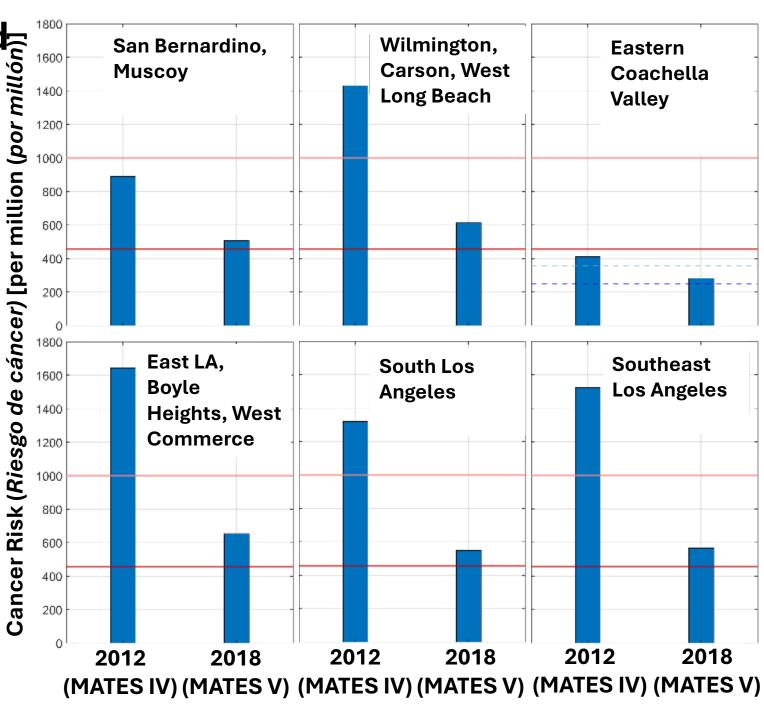
Tendencia del riesgo de cáncer modelado

 Average risk has decreased from 2012 to 2018 in all communities*

El riesgo promedio ha disminuido desde 2012 hasta 2018 en todas las comunidades*

*Cancer risk decreased 50% on average from 2012 to 2018 El riesgo de cáncer disminuyó en un 50% en promedio desde 2012 hasta 2018

Average Risk in Riesgo promedio en Basin (Cuenca) 2012 2018 Coachella Valley (Valle de Coachella) ---- 2012 ---- 2018

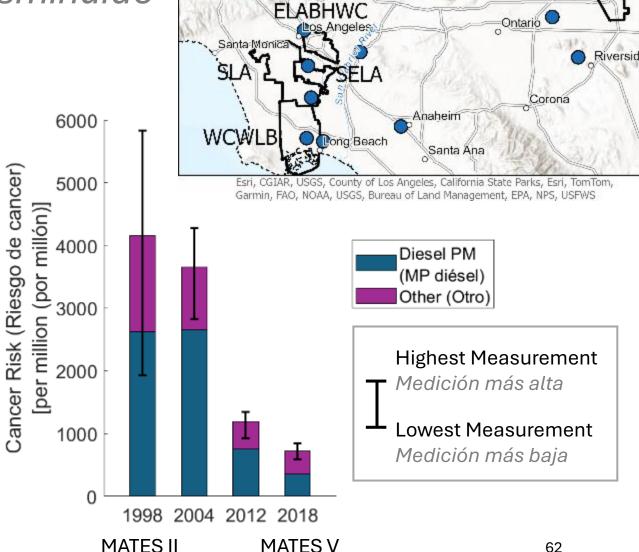


Measured Cancer Risk Has Decreased

El riesgo medido de cáncer ha disminuido

 Cancer risk due to Diesel PM and other air toxics has decreased significantly since 1998 at all monitoring sites

El riesgo de cáncer debido a MP diésel y otras sustancias tóxicas del aire ha disminuido significativamente desde 1998 en todos los sitios de monitoreo



Monitoring Sites (MATES V)



SBM

What's New for MATES VI?

¿Qué hay de nuevo en MATES VI?















MATES Data Visualization – Health Risk Data

Visualización de datos de MATES - Datos de riesgo para la salud

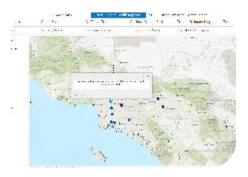
www.aqmd.gov/MATES5map



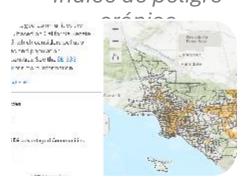
Cancer Risk Riesgo de cáncer



CalEnviroScreen

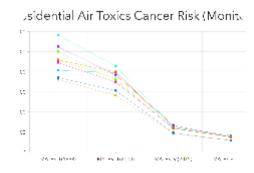


Chronic Hazard Index *Índice de peligro*



Disadvantaged Communities

Comunidades vulnerables



Trends Tendencias



Healthy Places Index Índice de lugares saludables



Criteria Pollutants Contaminantes de



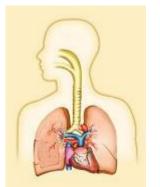
Green Space Espacio verde



Learn why and How to Protect Yourself from Poor Air Quality

Aprenda por qué y cómo protegerse de la mala calidad del aire







Air Quality Index (AQI) Basics

Fundamentos del Índice de Calidad del Aire (AQI)



Know the Health Effects of Air Pollution

Conozca los efectos en la salud de la contaminación del aire





Know Your Air Quality

Conozca la calidad de su aire

Download the South Coast AQMD App and sign up for alerts

Descargue la aplicación de South Coast AQMD y regístrese para recibir alertas www.AirAlerts.org





Activity Guides

Guías de actividades

Take Action to Protect Yourself

Tome medidas para protegerse



Wildfire Smoke and Ash Safety

Seguridad ante el humo y las cenizas



Demonstration Demostración

www.aqmd.gov/MATES5map

Visit the MATES V Map to answer these questions Visite el Mapa de MATES V para responder a estas preguntas



 How do I check the cancer and non-cancer health risk due to air toxics at my house?

¿Cómo puedo consultar el riesgo de cáncer y el riesgo para la salud no cancerígeno por contaminantes del aire en mi casa?

How do I see trends of air toxics health risks at monitor sites?



¿Cómo puedo ver las tendencias de los riesgos para la salud por contaminantes del aire en los sitios de monitoreo?



CARB Diesel Mobile Source Enforcement

June 12, 2025

Dr. Crystal Reul-Chen, South Coast Community Enforcement Liaison

crystal.reul-chen@arb.ca.gov

Who has Authority to Regulate Diesel Mobile Sources?

Air Quality Agencies

Federal



United States Environmental Protection Agency

Sets and enforces national air quality standards. Regulates interstate transportation.



Trains







Planes

State



California Air Resources Board (CARB)

Regulates mobile sources of air pollution, greenhouse gases, and consumer products



Cars



Trucks



Buses

Local



Local Air District (SDAPCD)

Regulate stationary and local sources of air pollution



Refineries



Residential woodstoves



Dust



CARB's Diesel Mobile Source Programs



Heavy duty vehicles:

Model year requirements ensure onroad trucks have modern emissions controls

Inspection and maintenance program ensures emission controls are well maintained

Idling restrictions



Off road diesel equipment:

Covers equipment used at railyards, ports, construction sites, warehouses, mines, airports, and more



Transport refrigeration units (TRUs): Includes TRUs on cold storage trucks and cargo containers



Heavy-Duty Trucks: Truck and Bus Program



Older vehicles without emissions controls create much higher emissions, including diesel particulate matter and NOx.

Truck and Bus Program includes model year requirements to make sure the engines are new enough to be equipped with modern emission control systems:

- In general, heavy-duty diesel engines must be 2010 or newer
- Limited exemptions allow older model year engines, including for emergency use or very low mileage operations



Heavy-Duty Trucks: Heavy-Duty Inspection/Maintenance Program Clean Truck Check (CTC)



CTC ensures emission control systems are operating correctly by requiring:

- Owners to conduct regular testing twice a year
- CARB Enforcement to inspect emission control systems in collaboration with CHP at roadside inspection often using CARB's remote sensing system, known as PEAQS, to identify the highest emitting vehicles for inspection
- Stationary PEAQS to operate 24/7 at various locations screening for high emitting vehicles

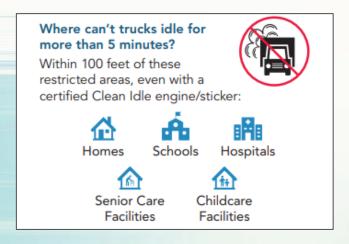






Heavy Duty Trucks: Idling

Trucks can legally idle while parked for 5 minutes everywhere in California.



When can trucks idle for more than 5 minutes?

- ✓ With certified Clean Idle engines
- In adverse weather conditions
- Using power take-off devices
- ✓ In traffic
- During mechanical failure
- For certain inspections
- Idling limits only apply to diesel trucks over 14,000 pounds GWVR (not pick-up trucks and other smaller trucks)
- Idling requirements only impact whether a vehicle is permitted to remain running while parked
- Idling restrictions do not impact how many vehicles operate in an area, and do not impact whether a vehicle is high emitting





Ways to Track CARB's Enforcement Efforts in Your Community



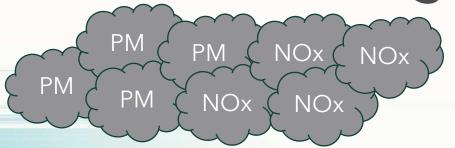


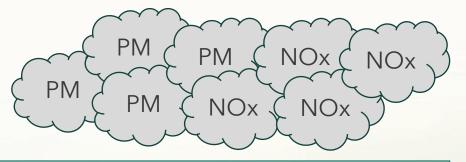


Enforcement Data Portal



"High Emitter" Problem





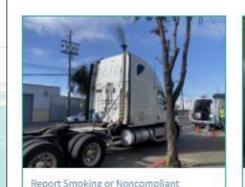




One high emitting vehicle can create as much emissions as 60 - 300 clean trucks! This shows the importance for diesel vehicles to have modern emission control systems that are working properly



Lodging a Diesel Mobile Source Complaint



Commercial Trucks



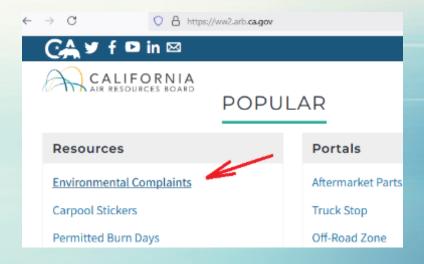








This page can also be found from CARB's main website, by scrolling down to Popular -> Resources



https://ww2.arb.ca.gov/environmental-complaints; envirotip@arb.ca.gov or call 1-800-952-5588





South Coast Air Quality Management District

Heavy-Duty Diesel Vehicle Idling Enforcement

GVWR for Commercial Trucks

Light Duty - Class 1-3

6,000 - 14,000 lbs







Medium Duty - Class 4-6

14,001 - 26,000 lbs







Heavy Duty - Class 7-8

26,001 - 33,000 lbs and over











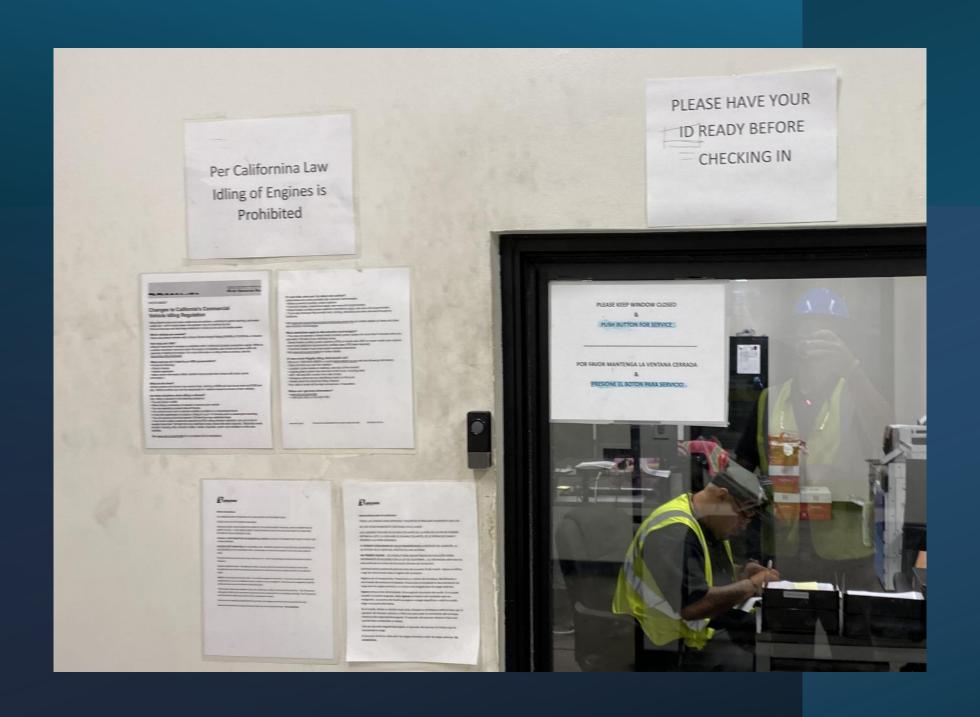














How To File A Complaint

There are 3 ways to file:



Call 1-800-CUT-SMOG (1-800-288-7644)

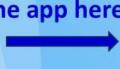


Visit www.AQMD.gov/Complaints



Use the South Coast AQMD Mobile App

Download the app here







How To File A Complaint (cont.)

Please have ready:



Date and time of air quality event



Type of air quality event: odors, dust, asbestos, smoke, etc.



Odor description: gas, chemical, rotten eggs, etc.



Address or location of suspected source

Questions for our Field Enforcement Staff?







Clean Air Incentive Projects Diesel Mobile Source Incentives Update

Alyssa Yan
Technology Advancement Office





CAPP INCENTIVE 2025 GUIDELINES

GUÍAS DE INCENTIVOS DE CAP PARA 2024





Community Air Protection Incentives
Program Guidelines

Approved by the Board: May 23, 2019

Revised May 30, 2025

California Air Resources Board
California Environmental Protection Agency
1001 | Street
Sacramento California 95814

- Final Draft Provided on May 2025
 - Public Workshop Recording and Presentation
 - CARB CAPP website
- Categories:
 - Mobile Source Projects
 - Zero EmissionInfrastructure
 - Community Identified Projects

- Aprobado por La Junta de CARB en Abril de 2024
 - Grabación del taller público y Presentación
- Página web de CARB
 CAPP
- Categorias:
 - Proyectos de fuentes moviles
 - Infraestructura de cero emisiones

EXAMPLES OF MOBILE SOURCE ELIGIBLE PROGRAMS

EJEMPLOS DE PROGRAMAS ELEGIBLES PARA FUENTES MÓVILES









Carl Moyer Memorial Air Quality Standards Attainment

Cumplimiento de los estándares de calidad del aire en el monumento a Carl Moyer

(Carl Moyer)

Surplus Off-Road Opt-In for NOx

Excedente Opt-in para
fuentes de NOx fuera

> de la carretera (SOON)

Proposition 1B Goods Movement Emission Reduction

Propuesta 1B Reducción de emisiones de movimiento de mercancías

(Prop 1B)

Truck Loaner Program

Programa de préstamo

de camiones

PROJECT CATEGORIES

CATEGORÍAS DE PROYECTOS

Project Category	Examples		
On-Road	 Trucks (drayage and other) Transit buses Solid waste Public agency/utility vehicles Emergency vehicles (e.g., fire apparatus) 		
Off-Road	 Construction Equipment Agricultural Equipment Cargo Handling Equipment Marine Engine Repower Locomotive Ship-Side Shore Power Portable Equipment Transportation Refrigeration Units (TRU) 		
Infrastructure	 Electric chargers Alternative fueling stations for zero-emission and near zero-emission vehicles 		













FUNDING AMOUNTS

Project Category	Funding		
On-Road	 Up to 80% - Fleet size of 20 or less vehicles Hasta el 80% - Tamaño de flota de 20 vehículos o menos Up to 50% - Fleet size greater than 20 vehícles Hasta el 50% - Tamaño de flota de 20 vehículos o más 		
Off-Road	 Up to 80% - Replacement Hasta el 80% - Reemplazo Up to 85% - Replacement to Near-Zero and ZE Hasta el 85% - Reemplazo a casi cero y ZE Up to 85% - Engine Repower Hasta el 85% - Repotenciación del motor 		
Infrastructure	 Up to 60% for all projects Hasta el 60% para todos los proyectos Up to 100% for Public School Buses (Battery Charging and Alternative Fuel) Hasta el 100% para autobús escolar público (Carga de baterías y combustible alternativo) 		







SOUTH COAST AQMD PROJECT SELECTION CRITERIA

CRITERIOS DE SELECCIÓN DE PROYECTOS DE SOUTH COAST AQMD: INCENTIVOS CAPP

Mobile source projects domiciled in AB 617 community

- Provide direct emissions reduction benefits
- Contribute to CERP emissions reduction targets
- Trucks operated a majority of time in the community
- Every eligible project within designated AB 617 communities was funded

Other zero emission projects (vehicles and infrastructure)

Other near-zero emission projects, where zero emission is not feasible

Projects in a priority population community and within 5 miles of AB 617 community

Proyectos de fuente móvil domiciliados en la comunidad AB 617*

- Proporcionar beneficios directos de reducción de emissions
- Contribuir a los objetivo de reducción de emissiones de CERP
- Los camiones operados la mayor parte del tiempo en la comunidad
- Cada proyecto dentro de las comunidades designadas AB 617 fue financiado

Otros proyectos de cero emisión (vehículos e infraestructura)

Otros proyectos de emissions cercanas a cero, donde cero emisiones no son factibles

Proyectos en una comunidad de población prioritaria y dentro de 5 millas de una comunidad AB 617

Community Air Protection Program (CAPP)

- Support Goals of AB 617
- Approved by Governor as part of the State budget each year

Approximately \$1.26 Billion

In Total Funding

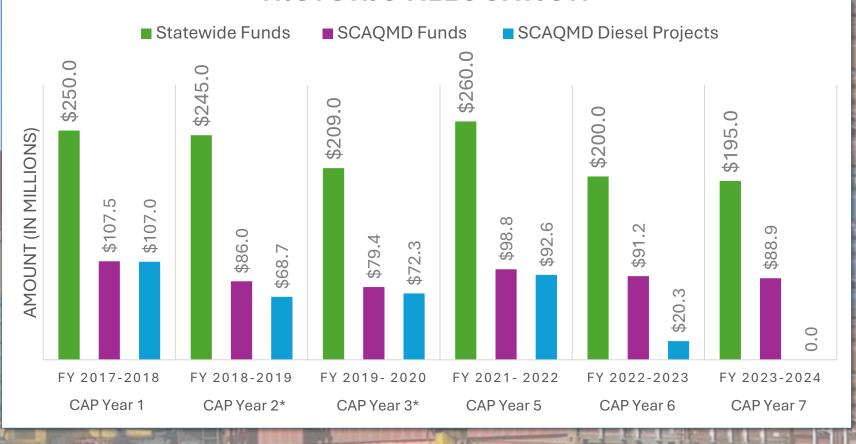
South Coast AQMD Received Approximately \$551.8 Million

In Total Funding

South Coast AQMD Awarded Approximately \$260.5 Million

In Total Funding

HISTORIC ALLOCATION



Total Engines Funded for Replacement/Repower by SCAQMD:

446	392	80	232
FY 2017-2018	FY 2018-2019	FY 2019-2020	FY 2022-2024
CAP Year 1	CAP Year 2	CAP Year 3	CAP Year 5+6

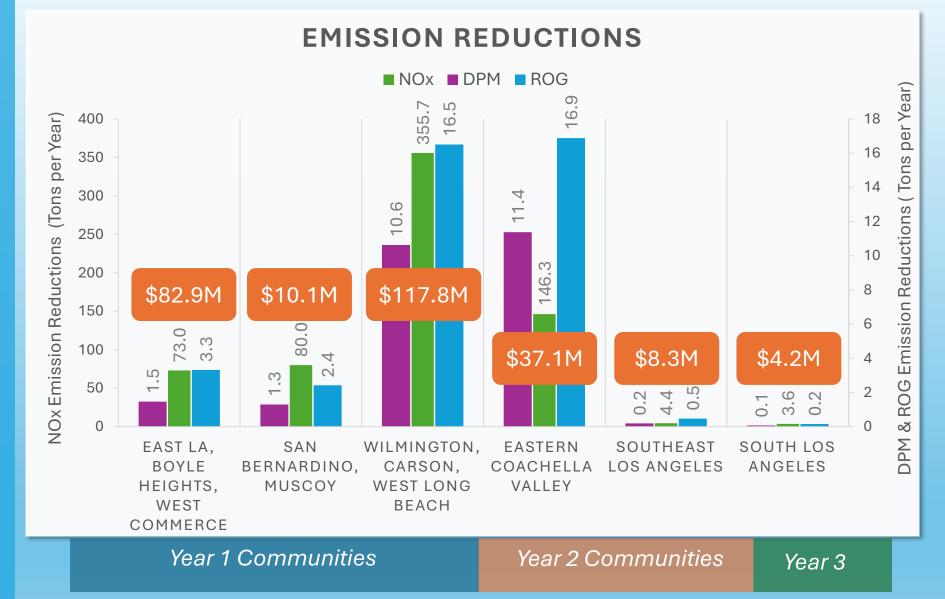


*Other Projects awarded under CAP Year 2 & 3 including air filtration, Green Spaces and Truck Loaner Programs are not included in the above table

TOTAL INVESTMENT IN MOBILE SOURCE INCENTIVES

 Approximate Emission Reductions based on CAPP Funding Year*

Approximately
\$260.5 Million
In Total Funding



*Future incentive-based emission reductions dependent on program funding



QUESTIONS & DISCUSSION

CONTACT INFORMATION ALYSSA YAN: AYAN@AQMD.GOV

Financial Incentives for Purchasing Zero and Low-Emission Heavy-Duty Vehicles, Engines, and Equipment

Deadline on July 1, 2025, at 1:00 PM

On March 14, 2025 South Coast AQMD will open applications for the Carl Moyer Program, including the SOON (Surplus Off-Road Opt-In for NOx) Provision. Applications will be accepted under Carl Moyer Program Announcement #PA2025-03 and SOON Program Announcement #PA2025-04.



\$48.4 Million Funding Available

CARL MOYER PROGRAM IS CURRENTLY AVAILABLE (CLOSING JULY 1ST AT 1 PM PST)

carlmoyer@aqmd.gov

Future Funding

Technology	Typical Cost	Implementation Difficulty	Diesel PM Emission Reductions	NOx Emission Reductions
Class 8 Low NOx Truck (0.02 g/bhp-hr NOx) Camión bajo en emisiones de NOx de Clase 8 (0.02 g/bhp-hr NOx)		₩		••
Class 8 Zero Emission Truck Camión de Cero Emisión de Clase 8		※ ※		##
Zero Emission Transit Bus Autobús de Tránsito de Cero Emisión		※ ※		99
Infrastructure		※ ※	N/A	N/A
Clean Diesel Locomotive Locomotora de Nivel 4		※ ※ ※	999	9999
Clean Diesel Off-Road Equipment Equipo de construcción (que no se utiliza en carreteras) de Nivel 4		**	•••	•••
Zero Emission Off-Road Equipment		※		
Clean Diesel Marine Vessel		※ ※		##
Clean Diesel Agricultural Equipment		*	99	999

^{*}Based on average cost-effectiveness from previously awarded inventive projects. Averages are subject to change given new project applications, incentive program criteria and/or funding limits

Prioritization Survey

- Are there any additional projects that you want to suggest?
 - ¿Hay algún proyecto adicional que quieran sugerir?
- Please select up to 3 projects that should be a top priority
 - Por favor seleccione hasta 3 proyectos que deberían ser una máxima prioridad



https://forms.office.com/g/ScGUWDtUSF?origin=lprLink

PUBLIC COMMENT / COMENTARIO PÚBLICO

AB617comments@aqmd.gov

*9 Raise Hand / Levantar La Mano *6 Unmute / Activar El Sonido