



Overview of Air Quality and INVEST CLEAN Project

December 15, 2025

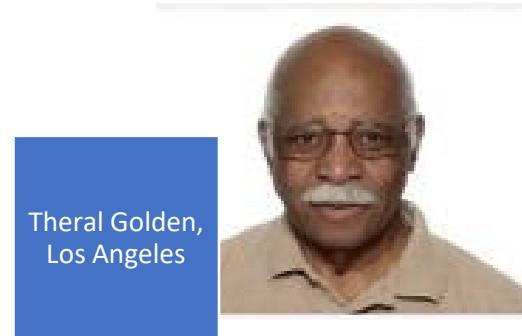
Agenda

- 9:00 AM** Welcome
- 9:02 AM** Introduction of Public Benefits Steering Committee
- 9:17 AM** Air Quality and INVEST CLEAN
- 9:32 AM** INVEST CLEAN Public Benefits Program
- 10:02 AM** Educational Outreach and Engagement
- 10:19 AM** Next Steps
- 10:24 AM** Q & A / Public Comment

Introduction of **INVEST CLEAN** Public Benefits Steering Committee



Public Benefits Steering Committee Members



South Coast AQMD Third-Party Facilitators & Staff

Tecolote Perch

- Clarence Williams, Project Manager
- Yassamin "Yassi" Kavezade, Project Manager

Arellano Associates

- Susan De Santis, Senior Project Manager
- Nora Casillas, Project Manager

South Coast AQMD (Technology Advancement and Legal)

- Dr. Aaron Katzenstein, Deputy Executive Officer
- Mei Wang, Asst. Deputy Executive Officer
- Tom Lee, Planning & Rules Manager
- Fan Xu, Program Supervisor
- Nicole Silva, Program Supervisor
- David Chen, Air Quality Specialist
- Erika Chavez, Principal Deputy District Counsel

South Coast AQMD (Legislative, Public Affairs & Media)

- Lisa Tanaka, Deputy Executive Officer
- Monika Kim, Public Affairs Manager
- Lisette Guzman, Communications Public Affairs Manager
- Elaine Joy Hills, Sr. Staff Specialist
- Lara Brown, Senior Administrative Assistant



Overview of Air Quality and INVEST CLEAN



South Coast AQMD Region

San Pedro Bay Ports are the largest source of emissions in the region

17 Million People



28,000 permitted sources



**67% of CA EJ population
lives in South Coast**

**At Least
one-third of
all U.S.
containerized
cargo**



What are Our Challenges?

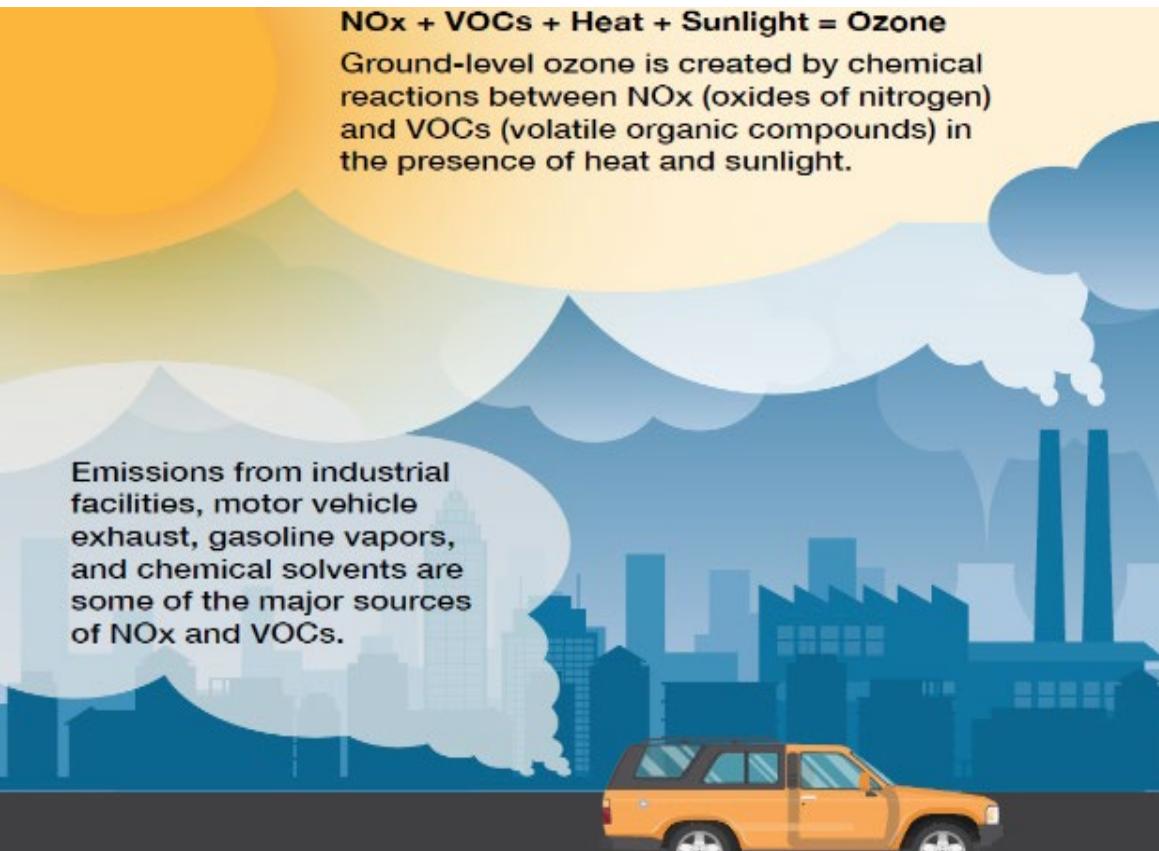
- Region has some of the worst air quality in the nation
- Region does not meet state and federal health-based air quality standards for **OZONE (SMOG) AND PARTICULATE MATTER (PM2.5)**
- Significant progress, much more needed



Air Pollution in South Coast Region

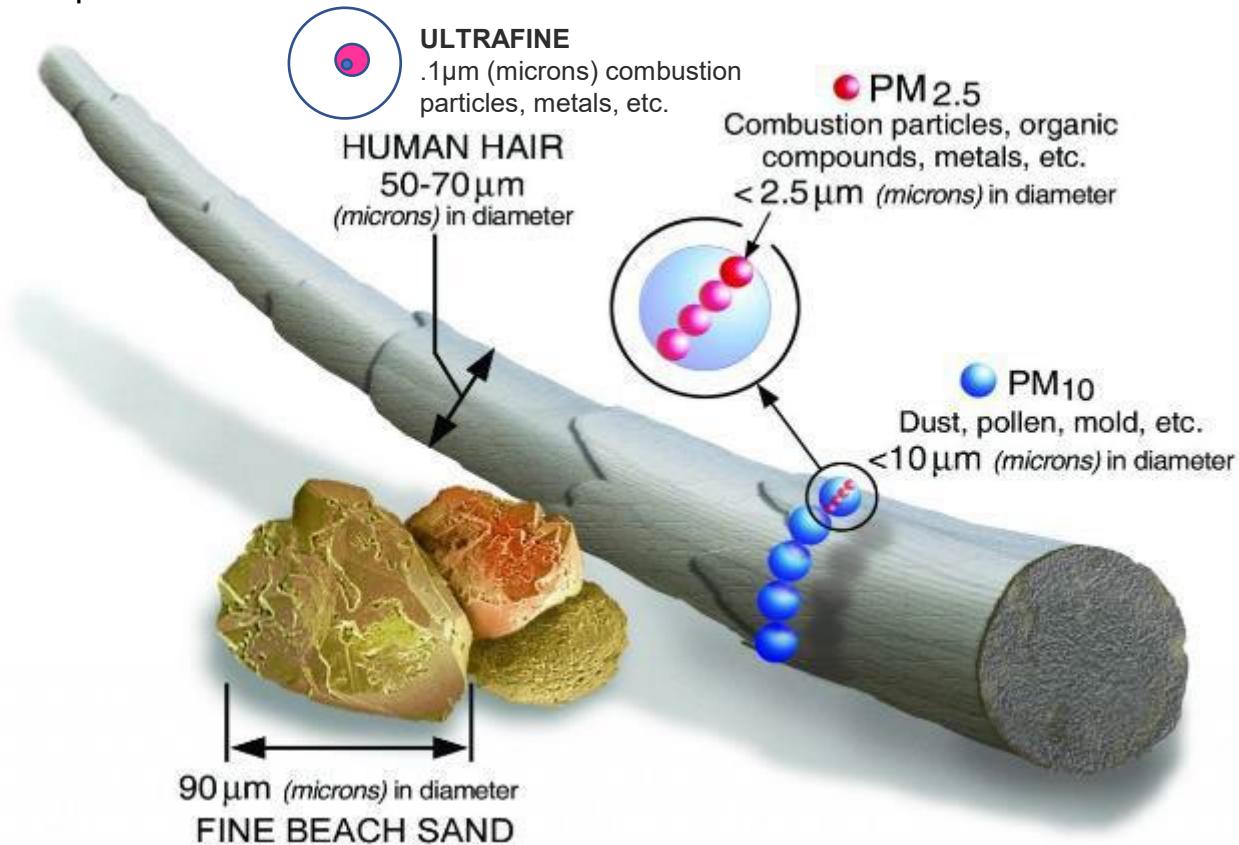
OZONE (O₃) – Smog

Formed in atmosphere through chemical reaction of air pollutants - nitrogen oxides (NO_x) and volatile organic chemicals (VOCs) - in presence of sunlight.

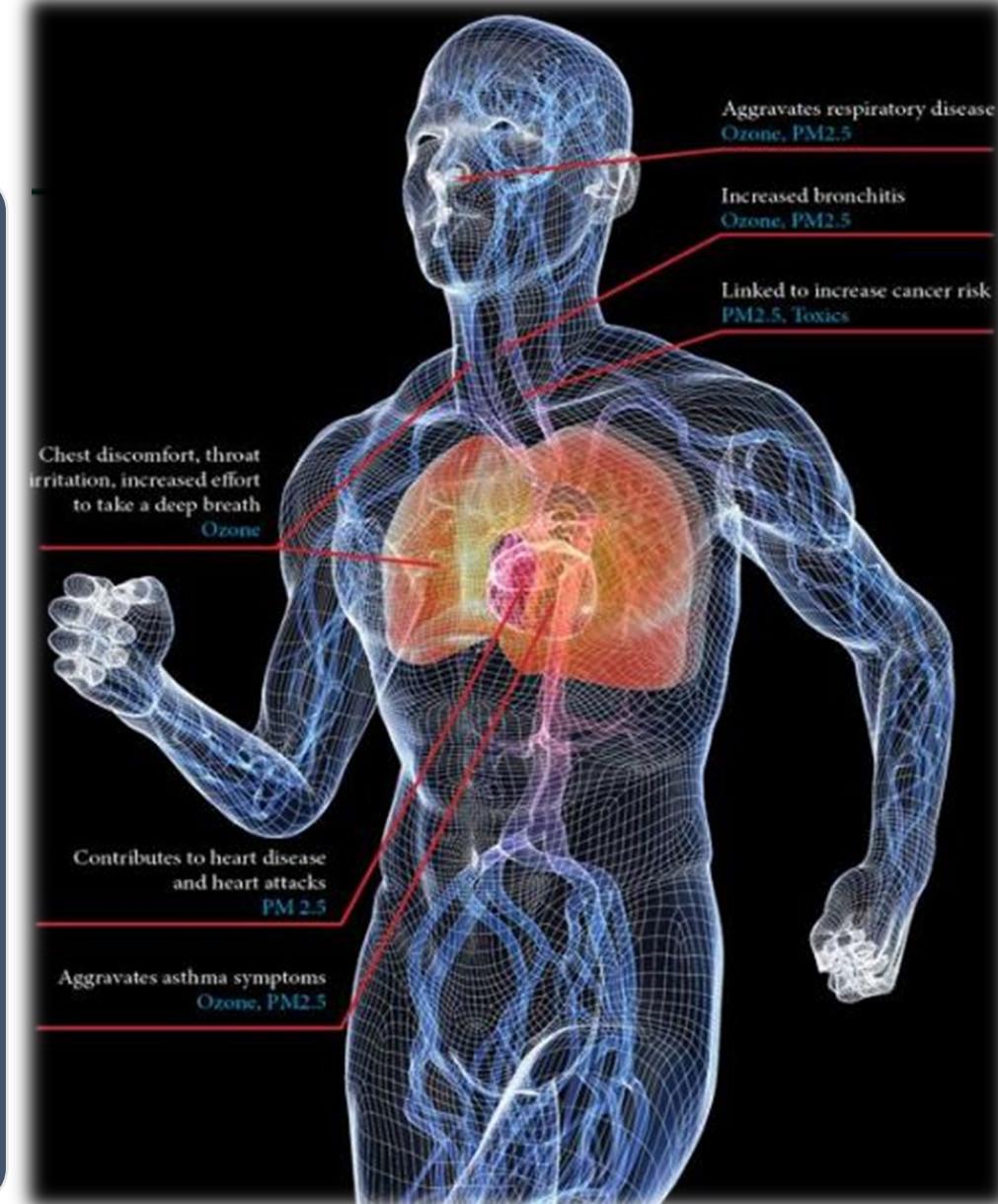
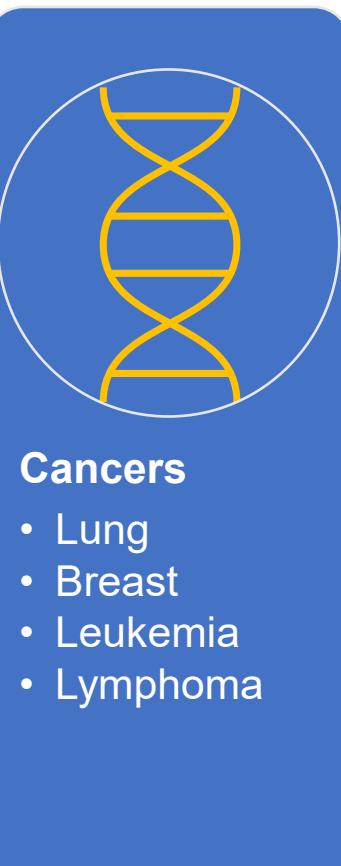
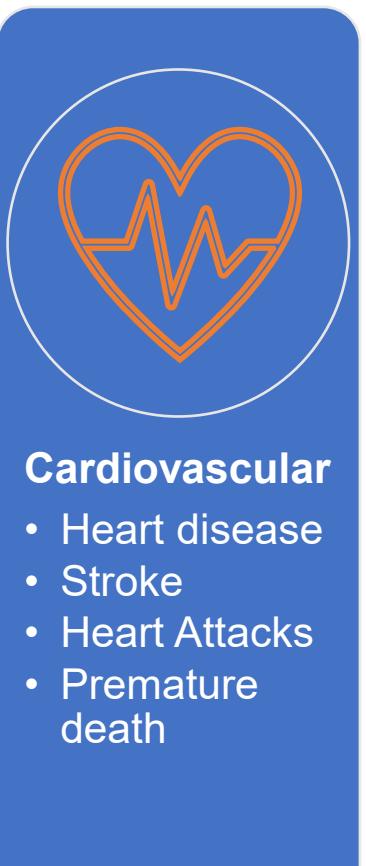


Particulate Matter 2.5 (PM2.5)

Fine inhalable particles emitted directly or formed in atmosphere through a chemical reaction of gases, including NO_x and other pollutants.

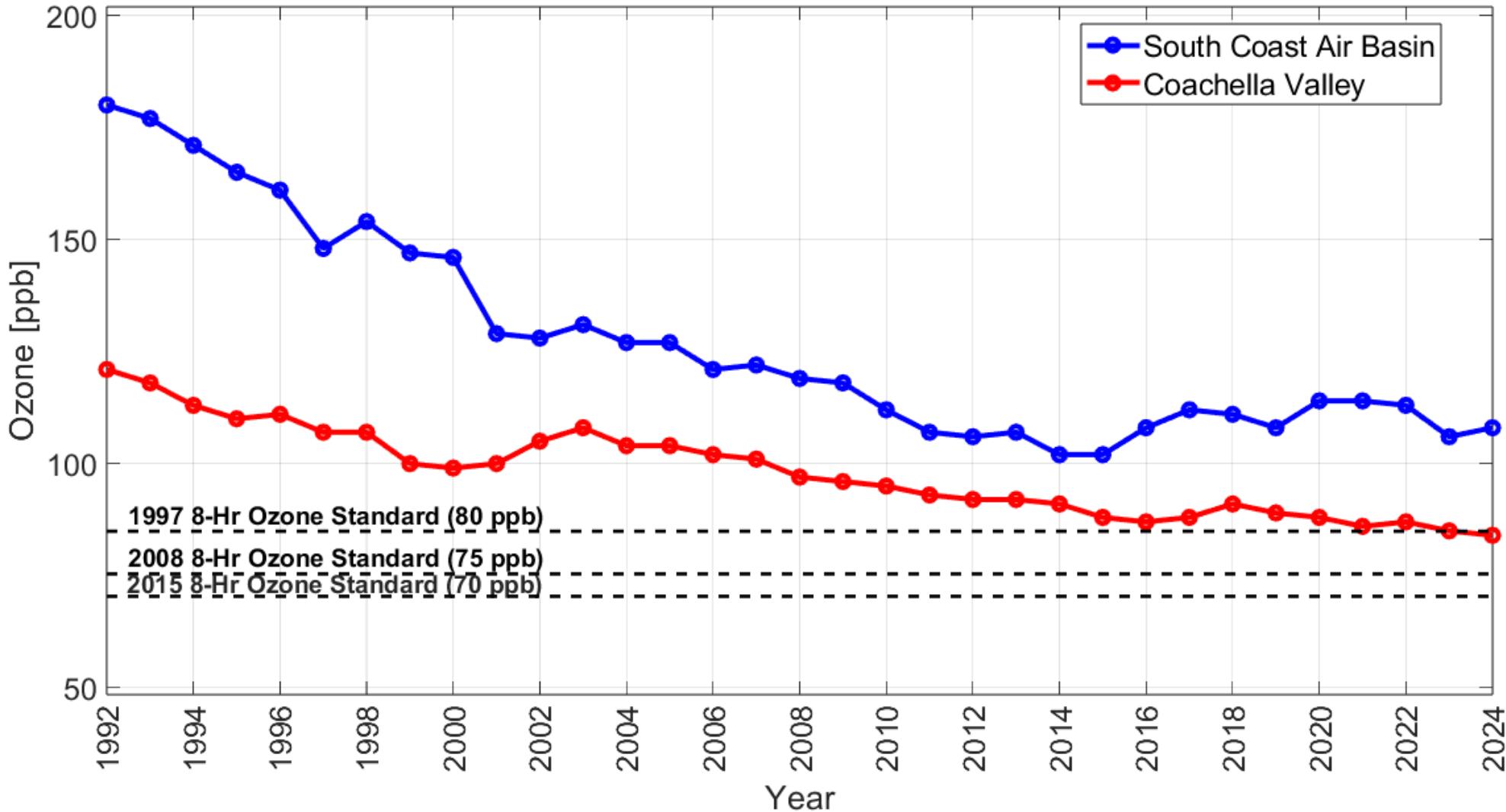


Health Impacts of Air Pollution



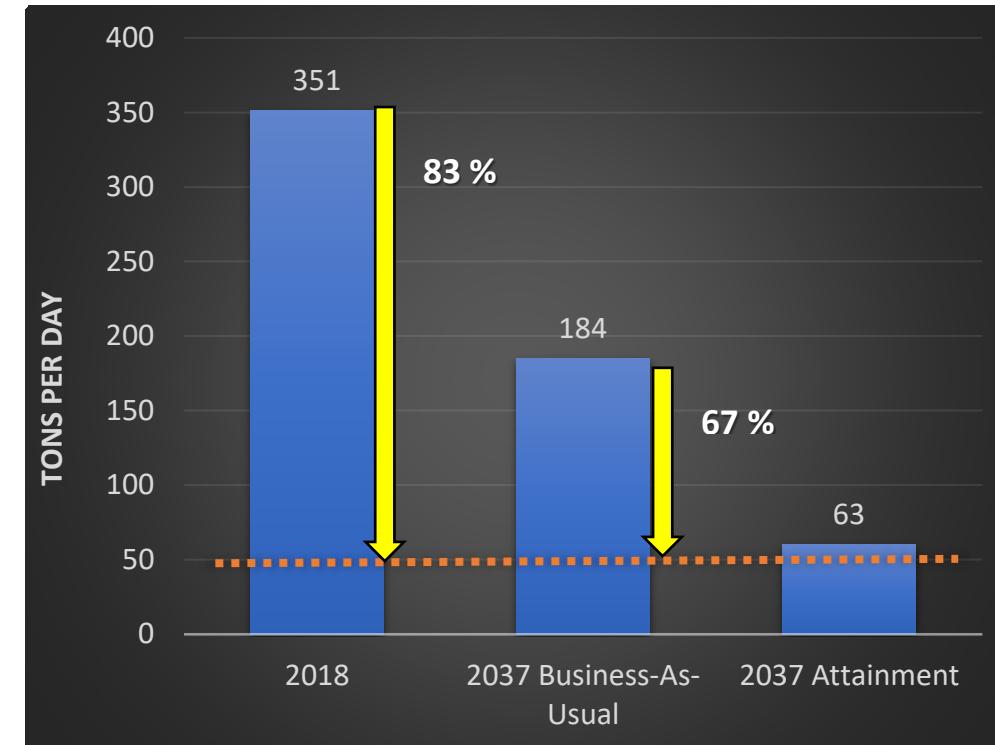
Progress in Cleaning the Air

Despite substantial progress, we remain far above air quality standards



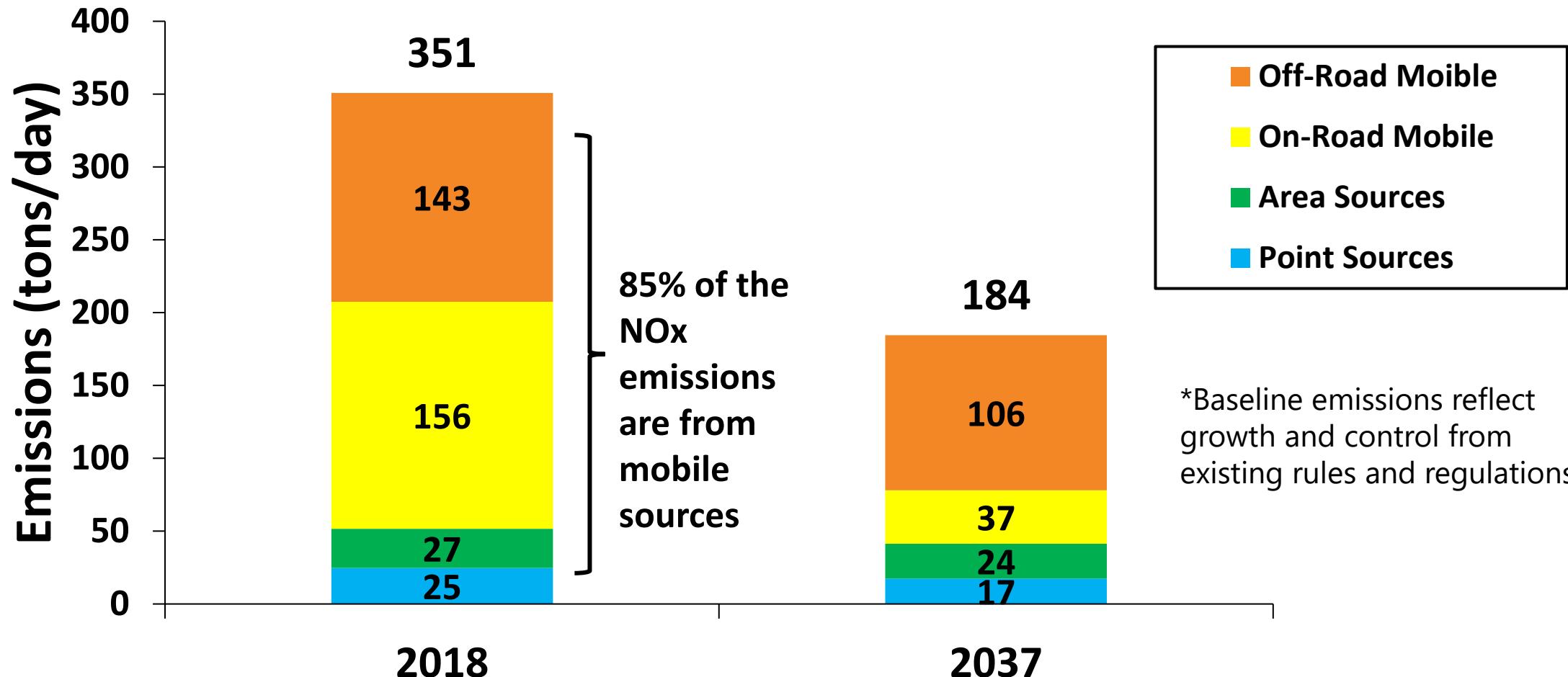
Air Quality Management Plan - NOx Reductions Needed for Ozone Attainment

- Air Quality Management Plan (AQMP) is blueprint to improve air quality and achieve federal air quality standards in South Coast Air Basin and Coachella Valley
- NOx is primary pollutant that must be controlled to reduce ozone in our region
- NOx must be reduced to 60 tons per day to meet 70 parts per billion (ppb) ozone standard
 - 83% below current conditions
 - 67% below Business-As-Usual conditions in 2037
- **Push for zero emission (ZE) technologies across all sectors where feasible**

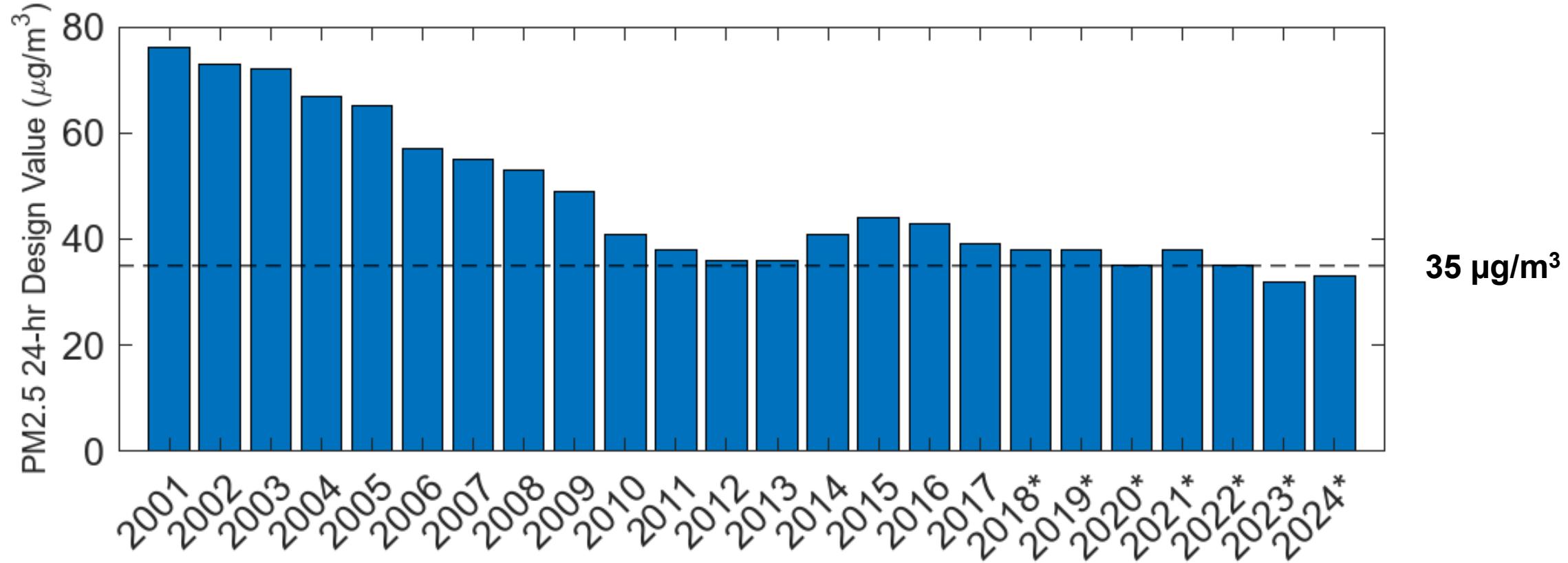


2022 AQMP and supporting documents:
<http://www.aqmd.gov/2022aqmp>

NOx Baseline* Emissions by Source Category



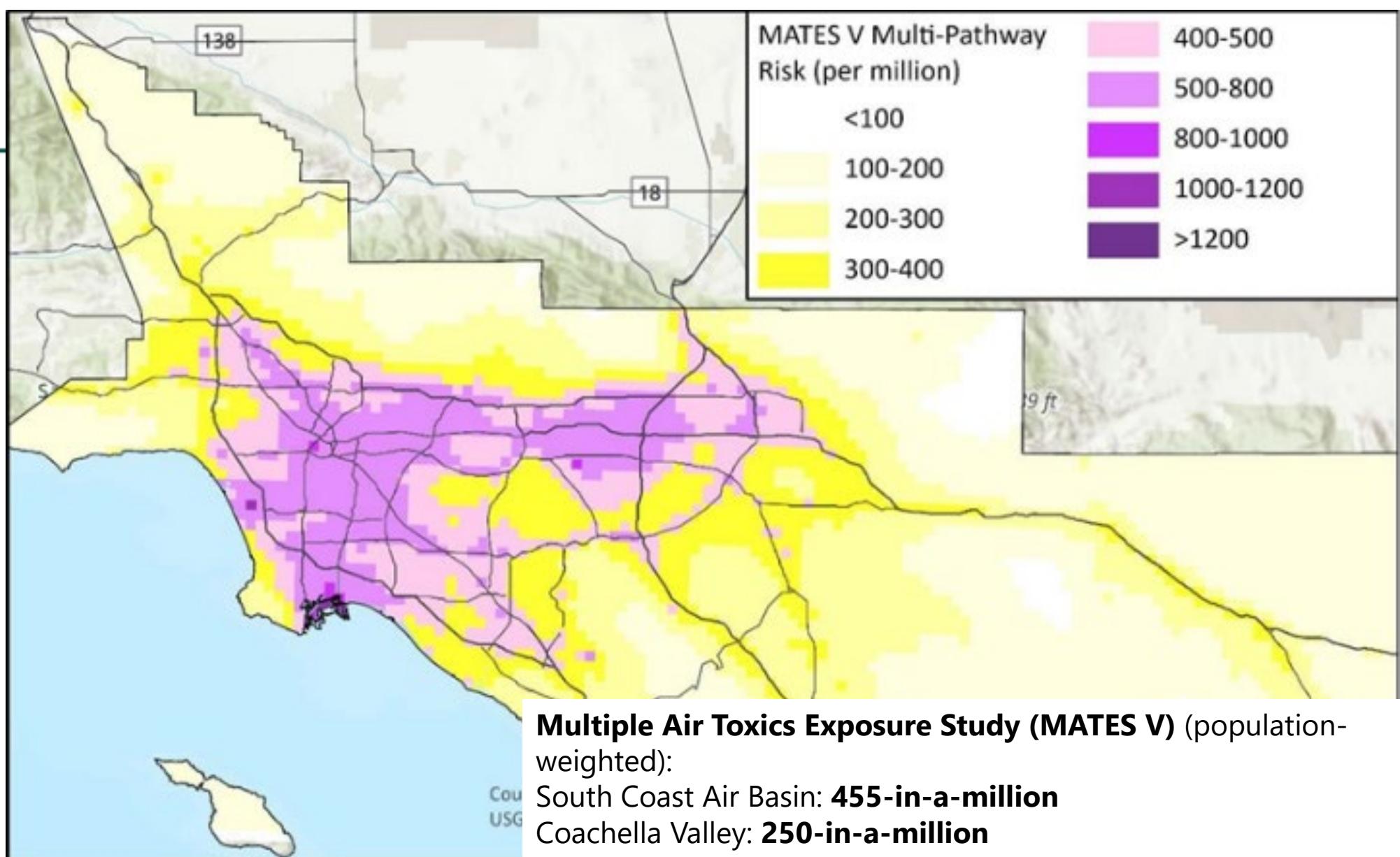
South Coast Air Basin 24- hour PM2.5 Trend



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



Mobile Sources Largest Contributor to Air Toxics Cancer Risk



Main Incentive Programs

South Coast AQMD reduces air pollution through incentive programs to transition to clean technologies.



Carl Moyer Program

- HD trucks
- Off-Roa/Construction/Ag
- Marine vessels
- Locomotives
- Cargo handling equipment
- Infrastructure
- 1998 to Present



Proposition 1B Goods Movement

- HD trucks
- Cargo handling equipment
- Transport Refrigeration Units (TRU)
- Locomotives
- Shore power



Lower-Emission School Bus Program

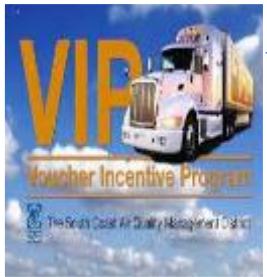
- School buses replacement,
- infrastructure
- CNG tank replacements
- 2001 to Present



Replace Your Ride

- Light-duty vehicles
- EV chargers
- E-Bikes
- Alternative options (transit passes, car sharing, fuel cards)
- 2015 to Present

Other Incentive Programs



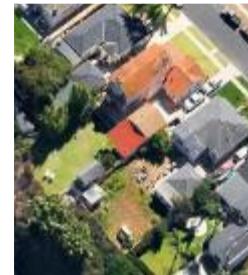
Voucher Incentive Program
(for small fleets with 20
or fewer vehicles)



Funding Agricultural
Replacement Measures for
Emission Reductions
(FARMER) Program



Volkswagen Environmental
Mitigation Trust Program



Community Air Protection
Program (supports AB 617)



Commercial Electric Lawn and
Garden Equipment Program



The word 'INVEST' is written in large, bold, white capital letters, with a thin horizontal line extending from the left side of the 'I' to the right side of the 'T'. The word 'CLEAN' is written in large, bold, white capital letters, with a thin horizontal line extending from the left side of the 'C' to the right side of the 'N'. The letters are separated by a small circular node at the intersection of the two lines. To the left of the 'I' is a white silhouette of a construction crane with a bucket. To the right of the 'T' is a white silhouette of a bus. To the left of the 'C' is a white silhouette of three construction workers wearing hard hats. To the right of the 'N' is a white silhouette of a truck.

Background



Inflation reduction act (IRA) created \$4.6 B U.S. EPA Climate Pollution Reduction Grant Program (CPRG)

The goals to develop climate action plans and implement projects:

- Reduce air pollution
- Support jobs
- Leverage funding, maximize emission reductions and community benefits
- Address environmental justice



CPRG Development Process



Planning Grant

- **January/February 2023 – April 2024**
- Created Steering Committees
- LA-OC MSA: Los Angeles – Long Beach – Anaheim
- Inland Empire MSA: Riverside – San Bernardino, Ontario
- Developed Priority Climate Action Plan (PCAP) – foundation for implementation grants
- Worked to prioritize Goods Movement
- Coordinated regionally and with State

Implementation Grant

- **February 2024 – April 2024**
- South Coast AQMD took lead for CPRG Southern California Goods Movement Working Group
- PCAP submitted in March 2024
- Built consensus on goods movement proposal framework
- Developed proposal and submitted in April 2024



\$500M

- 81 letters of commitment/support with 131 signatories
- Nearly 300 applications nationwide totaling almost \$33B
- 25 proposals awarded in total
- South Coast AQMD received largest CPRG award in nation

INVEST CLEAN: Four Incentive Measures

- Program Announcements open until December 16 no later than 12:00 PM/PT for:
 - Heavy-duty Charging Infrastructure
 - Class 8 Heavy-Duty Trucks
 - Cargo Handling Equipment
 - Switcher Locomotives
- Program Announcement open until January 30, 2026 for Class 4&5 vehicles.

Visit www.investclean.org



Heavy-duty Charging Infrastructure

- \$178.5M
- Approximately 1,020 chargers



Class 8 Heavy-Duty Trucks and Last Mile Freight for Class 4 & 5 Vehicles

- \$28M for Class 8 Trucks & \$50M for Class 4/5 vehicles
- Approximately 70 Class 8 Trucks & 750 Class 4/5 vehicles



Cargo Handling Equipment (CHE)

- \$20.6M
- Approximately 60 CHE



Battery Electric Locomotive Pilot Project

- \$190.8M
- Approximately 18 locomotives

Jobs, Workforce Training & Community Benefits

Jobs

- Near-term over 470 jobs created in California and 4,700 nationwide

Workforce Training

- Partnership with International Brotherhood of Electrical Workers – National Electrical Contractors Association, workforce non-governmental organizations, community colleges, and universities/colleges

Community Benefits

- Public Benefits Steering Committee
- Emissions reductions and workforce training



Air Quality Benefits

Benefits Over 25 Years (2025-2050):

12 Million Metric Tons
CO₂e Emissions Reduced

1,600 Tons
NO_x Emissions Reduced Per Year

28 Tons
PM_{2.5} Emissions Reduced Per Year

30 Tons
Diesel PM Emissions Reduced Per Year

1 Billion+
Gallons Diesel Avoided

Excellent cost effectiveness at **\$42/metric ton** CO₂e over the **25-year** period.

Next Steps

- Program Announcements close on December 16 for all except Last Mile Freight (Class 4/5).
- Last Mile Freight closes on January 30, 2026
- Project selection potentially in Spring – Summer 2026

Projects



Community Benefits Program

- December 2025 – Kick-off meeting



Workforce Development



More information at: <https://investclean.org/>

Overview of INVEST CLEAN Public Benefits Program

Tecolote Perch

Administration



Not a Brown Act Committee



Stipends



Meeting Calendar



Agenda Setting

Public Benefits Steering Committee Goals

The Public Benefits Program under INVEST CLEAN focuses on delivering clean-air improvements in communities affected by goods-movement and logistics by:

Air Quality & Mitigation Recommendations for Zero-Emission Freight Projects

- Providing recommendations for best practices from community perspective for freight projects

Public Benefit Projects

- Developing a list of types of community centered projects that prioritize emission reductions and improve quality of life

Educational Opportunities

- Participate in educational discussions and/or site visits / other opportunities – possible speakers from other agencies and industry

Outreach & Engagement

- Informing the outreach and engagement effort to support public health and neighborhood livability, and contribute to long-term community resilience

How We Support Community Engagement

Arellano Associates



What Arellano Associates Will Deliver



- Outreach + communications strategy
- ZE technology education
- Workforce training awareness
- Actionable community input
- Collaboration with Steering Committee
- 20 events over 5 years

Outreach Tools

- Flyers, infographics, Zero Emission explainers
- Event materials
- Social media content
- Visual tools illustrating community benefits

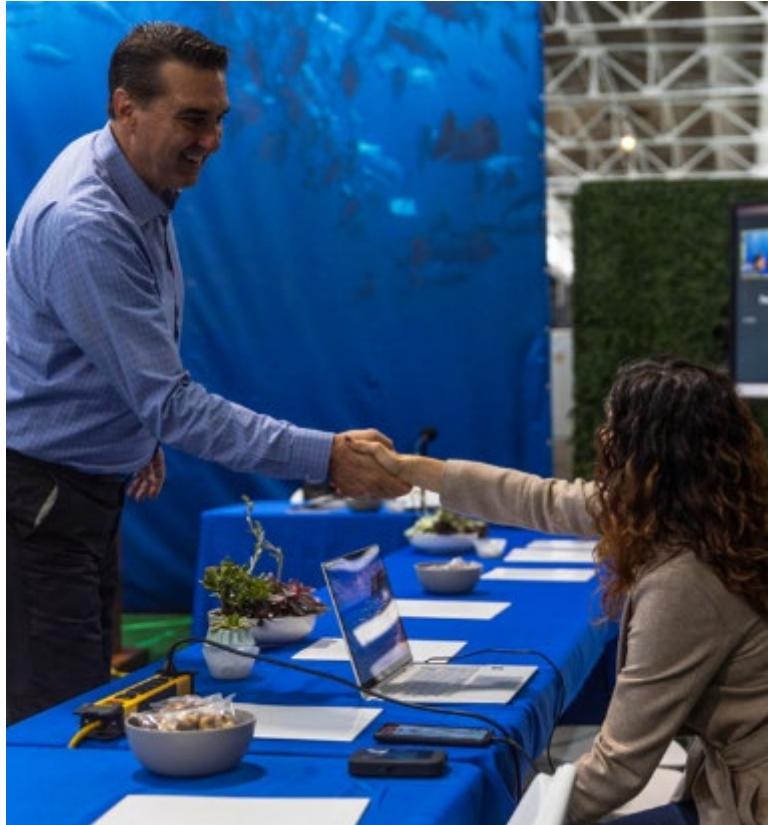


Outreach Activities

- Workshops & briefings
- Event tabling
- Mobile pop-ups
- Workforce events
- Ride-and-drives
- Virtual engagement
- Roundtables & listening sessions
- Partnership events

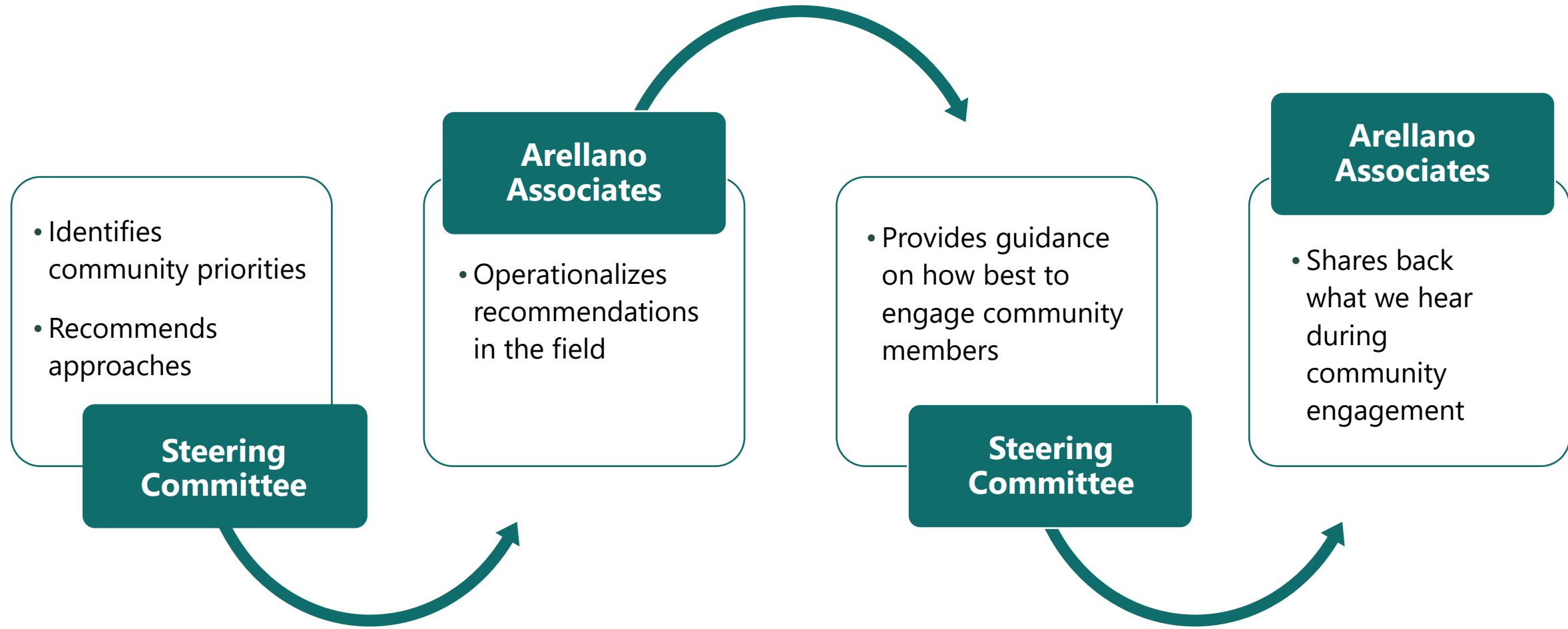


Steering Committee Support



- Integrate Committee recommendations
- Collaborate and network outreach opportunities with Steering Committee Members
- Share community insights
- Transparent communication
- Ready-made outreach materials

Your Role + Our Support

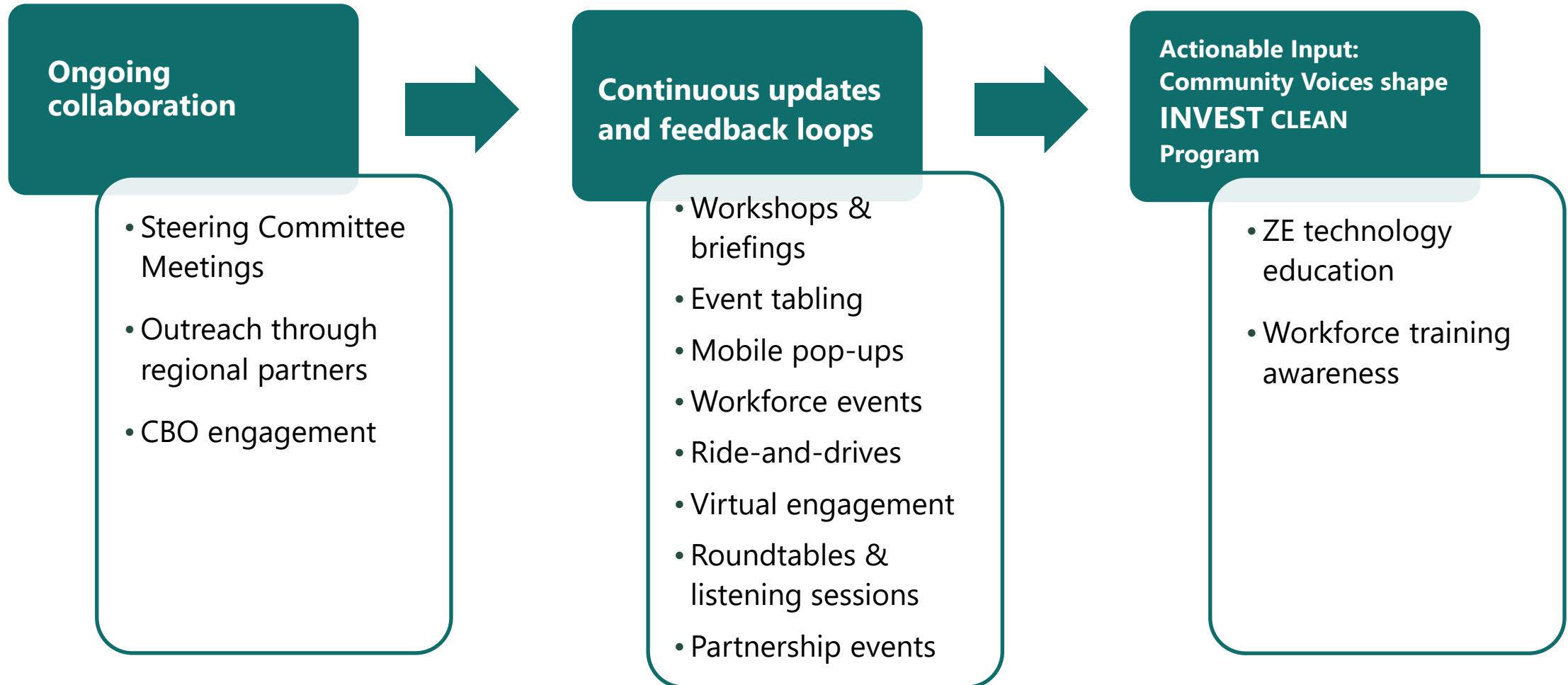


ELECTRIC Program Support

- Promote ZE workforce pathways
- Activate events with CBOs
- Create bilingual education materials
- Coordinate with regional partners



Looking Ahead



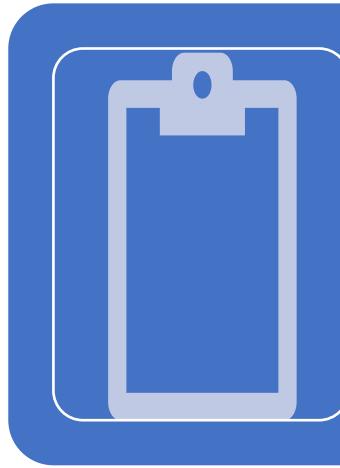
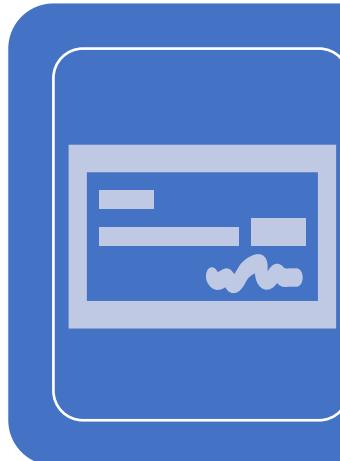
Next Steps

Tecolote Perch



Next Steps



-  Survey
 - Topics for Discussion
 - Meeting Dates & Times
 - Feedback
-  Send Forms & Information
 - Stipend form
 - Materials to review for next meeting
 - Other?

Questions & Answers / Public Comment



Thank You!

<https://InvestClean.org>

@SouthCoastAQMD

