Air Quality Update Inland Empire

Press Enterprise Public Forum September 12, 2013



About the SCAQMD

- Air pollution control agency responsible for the following
 Counties:
 - Orange
 - Los Angeles*,
 - Riverside*, and
 - San Bernardino*



^{*} Urban portions of the county

Key Responsibilities

- Control emissions from stationary sources
 (e.g. power plants, refineries, gas stations)
- Comply with state and federal air quality standards
- Comprehensive air toxics program
- Permit and inspect businesses
- Responsible and Commenting Agency under the California Environmental Quality Act

Our Mission

The South Coast AQMD believes all residents have a right to live and work in an environment of clean air and is committed to undertaking all necessary steps to protect public health from air pollution, with sensitivity to the impacts of its actions on the

community and businesses.





The Relationship



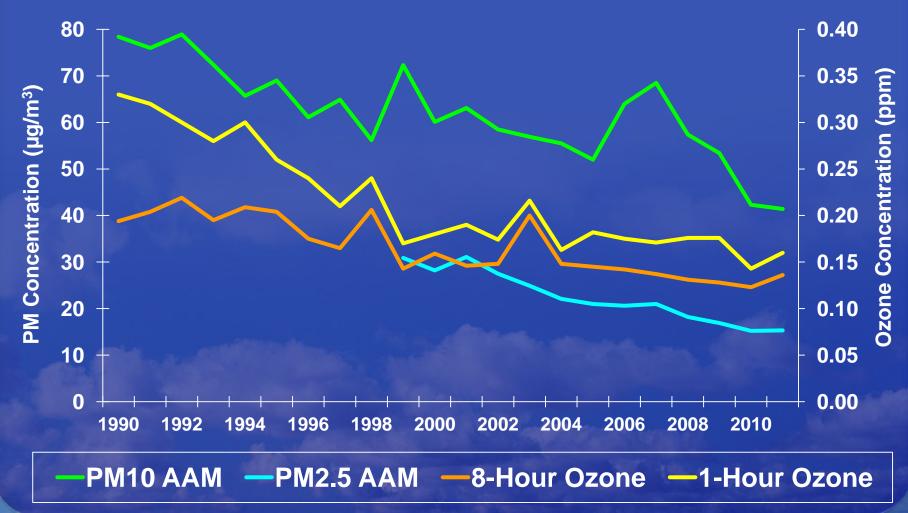
Sources

Air Quality

Health

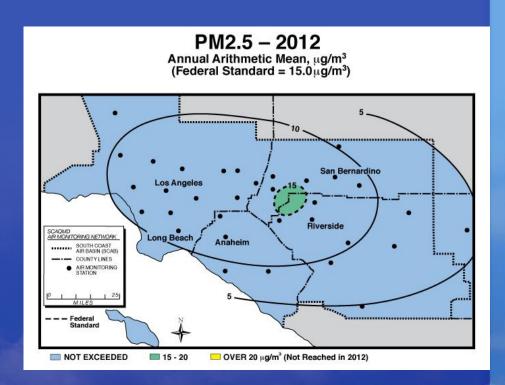


Basin Air Quality Trends



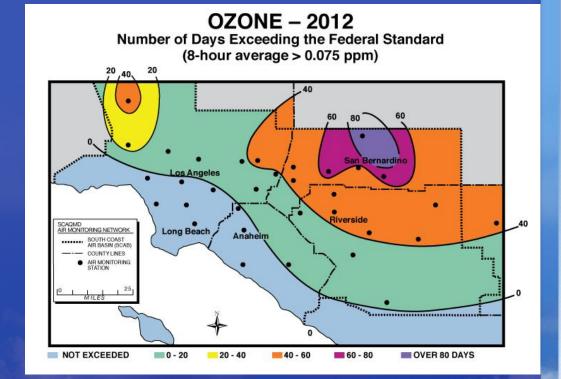
Annual PM 2.5 Concentration

- Highest concentration near Mira Loma monitoring station
- New standard of 12 ug/m3 expected to affect larger area



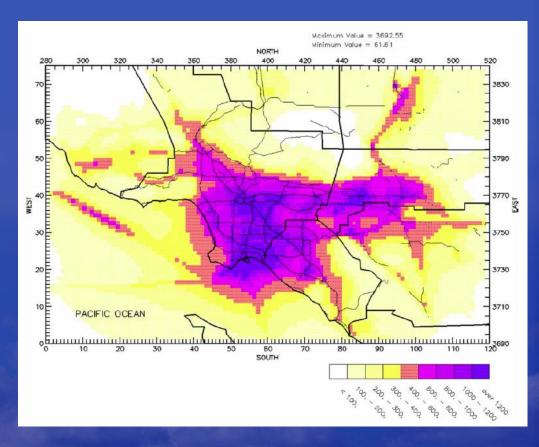
8-Hour Ozone

- In 2012 exceeded 8-hour ozone standard 111 days
- Riverside and San
 Bernardino
 highest number of
 exceedences



Multiple Air Toxics Exposure Study (MATES) III

- Elevated health risks in eastern portion of Basin
- Higher health risk near transportation corridors
- Greatest riskcontribution isdiesel particulate







Projected Warehousing Growth



Undeveloped land zoned for warehousing

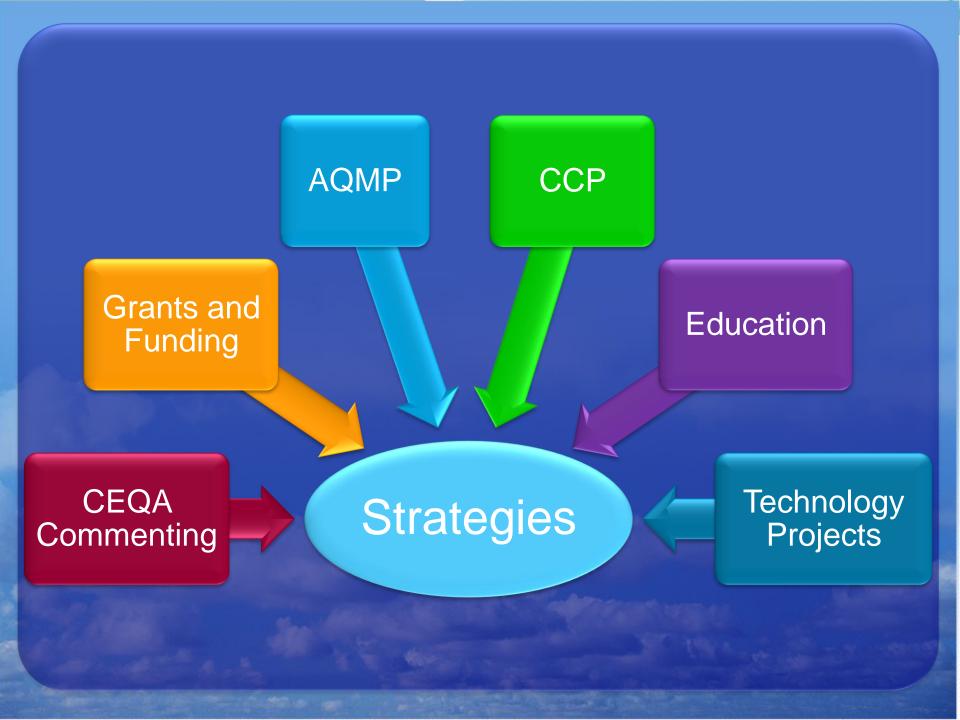
Criteria Pollutants Challenges





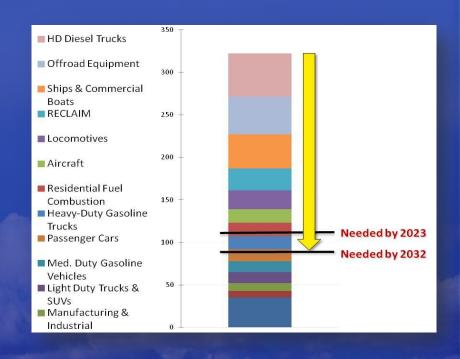
Regional and Localized Impacts (near source, near roadway) Multiple and evermoving attainment dates

Air Quality Strategies



2014 Air Quality Management Plan (AQMP)

- 2015 AQMP will focus on NOx reductions
- 70 to 90% reduction in NOx needed to achieve federal ozone standard
- Zero- and near-zero technologies
- Integrated approach



Top 5 NO_x Sources in 2023

Heavy-Duty Diesel Trucks

Off-Road Equipment

Ships and Commercial Boats

RECLAIM**

Locomotives



Clean Communities Plan (CCP)

- SCAQMD approved CCP in 2010
- Programs and measures to address air toxics
- San Bernardino Pilot Study
 - Stakeholder Working Group
 - Identify air quality issues in San Bernardino
 - Prioritize and identify potential solution paths for each issue



Working Together to
Build Cleaner Communities
SCAQMD Governing Board Meeting
November 5, 2010





Projects in Inland Empire

Source	Funding	Source Funding	County
59 Truck Replacements	\$2.7 Million	Proposition 1B	San Bernardino
92 Truck Replacements	\$4.7 Million	Proposition 1B	Riverside
Repower 4 Switch Locomotives	\$3.0 Million	Proposition 1B	San Bernardino
Repower 2 Switch Locomotives	\$1.9 Million	Diesel Emission Reduction Act (DERA)	San Bernardino
40 Electric Trucks at UPS	\$1.4 Million	SCAQMD/EPA	San Bernardino
6 Air Filtration at Schools and Recreation Center	\$820,000	CCAEJ	San Bernardino
Lawn Mowers, Leaf Blowers, Autobody and Repair, Arch Coatings, Weatherization	~\$1.5 Million (Still implementing)	USEPA Airshed	San Bernardino
Wood Fire Place and Stove	\$400,000	SCAQMD	Riverside

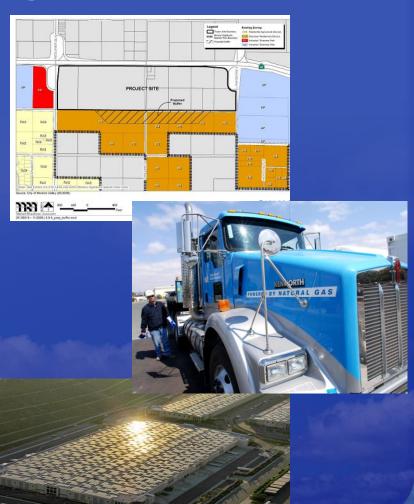
CEQA Commenting

- Comment on air quality analysis in CEQA documents – emission calculations, emission factors, completeness
- Key land use developments in the Inland Empire
 - Warehousing
 - Housing developments
 - Transportation infrastructure projects



Key Mitigation Measures for New Warehouses

- WRCOG Good Neighbor Guidelines
- Clean trucks and truck routes
- Infrastructure for zero and near-zero truck technologies
- Solar
- Buffer zones/Sensitive Receptors



Conclusions

- Zero and Near-Zero transportation technologies needed to meet ambient air quality standards and reduce localized impacts
- Significant growth projected for warehousing critical component of goods movement chain
- Solutions are available today and in the near future to reduce localized and regional air quality impacts