



South Coast AQMD Regulatory, Policy, National Efforts

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South Coast Air Quality Management District**

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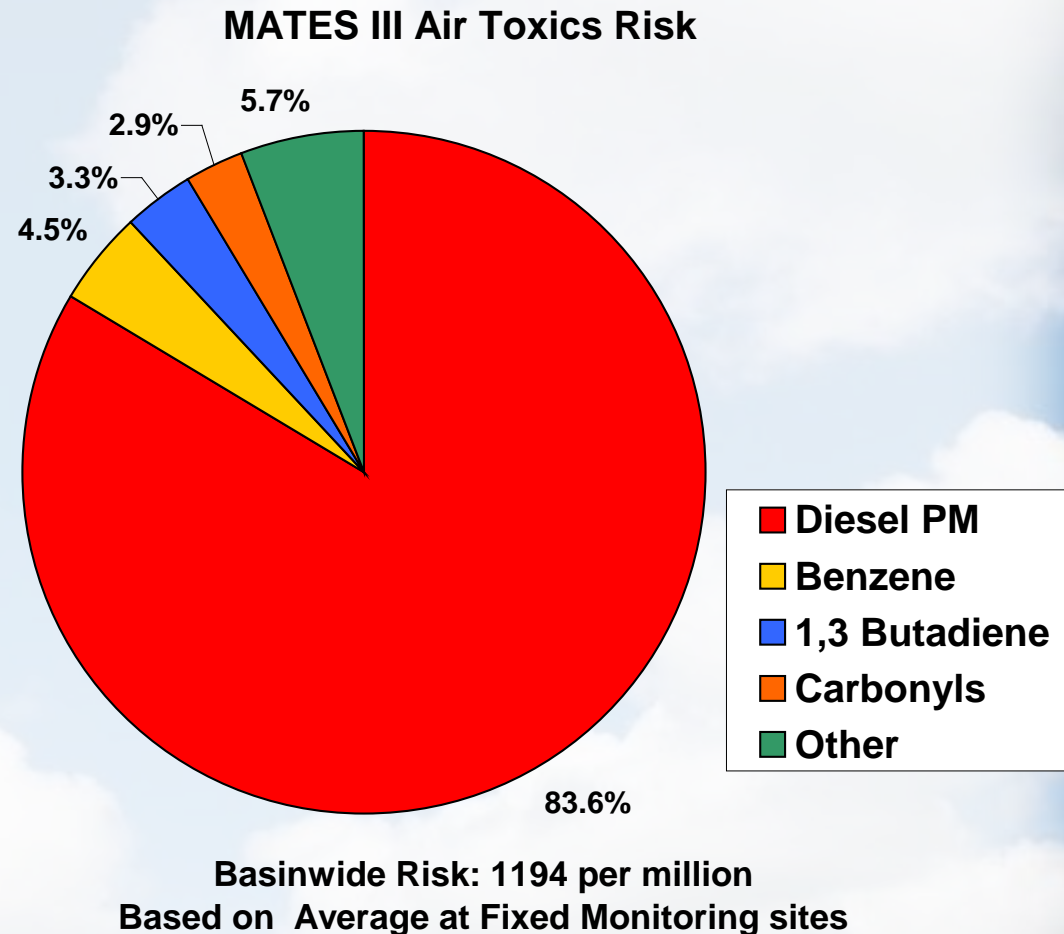


*Not Shown: San Clemente Island
Avalon

- 4-county Region
- 270,000+ Diesel Vehicles
- 16½ Million People
- 10+ Million Gasoline Vehicles

MATES III Monitoring

- General Trend is Down for Air Toxics Levels
- Estimated Basinwide Lifetime Risk – 1,200 Per Million
- Mobile Source Toxics Account for 94% of Risk
- Diesel Accounts for 84% of Air Toxics Risk



Why Propose Vehicle Fleet Rules?

- ◆ **Contribution to Ozone and Particulate Air Quality**
- ◆ **Significant Contributors to Localized and Regionwide Air Toxic Exposures**
- ◆ **Mobile Source Fair Share**



AQMD Fleet Rule Construct:

- ◆ **Purchase Cleanest Vehicles Available**
- ◆ **Alternative Fuel Application Niches**
- ◆ **Need for Feasible Implementation**
- ◆ **Long-Term Perspective**

SCAQMD Fleet Vehicle Rules

- 1191 - Light- and Medium-Duty Public Fleets
- 1192 - Transit Buses
- 1193 - Refuse Collection Vehicles
- 1194 - Commercial Airport Ground Access
- 1195 - School Buses
- 1196 - Heavy-Duty Public Fleet Vehicles
- 1186.1 - Less-Polluting Sweepers



Alternative Fuel Fleet Vehicles Within South Coast

- ~ 4,390 Transit Buses
- ~ 3,647 Light- and Medium-Duty Public Fleet Vehicles
- ~ 1,974 Refuse Trucks
- ~ 1,564 School Buses
- ~ 563 Heavy-Duty Public Fleet Vehicles
- ~ 310 Street Sweepers
- ~ 862 Taxicabs and Airport Shuttles



Available Incentive Programs

AB 118

Air Quality Improvement Program

- ◆ Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project
- ◆ Clean Vehicle Rebate Project
- ◆ Advanced Technology Demonstration Projects
- ◆ And Others.....



Proposition 1B

Goods Movement Program

- Proposition 1B Approved by Voters in November 2006 - \$1 Billion for Freight Movement Projects
- Authorizing Legislations: SB 88 & AB 201



School Bus Program

- One Time Bond Funds of \$200 Million Statewide for Lower-Emission School Bus Program
- AQMD Received \$71.1 Million of Those Funds



Carl Moyer Program



- ◆ **Emission Reductions – Real, Quantifiable, Surplus**
- ◆ **Cost-Effectiveness: \$17,080**
- ◆ **Project Types: Repowers, Retrofits, New Purchase**
- ◆ **FY 2012 Funding: \$24.5 Million**

CEC AB 118

Natural Gas Vehicle Funding



- **Purpose: Accelerate Commercialization of Existing and Emerging Alt-Fuel Vehicles**
- **Current Opportunity: Buy-Down Incentives for Natural Gas and Propane Vehicles**
 - **Open – 2/8/12; Close – 4/1/14**
 - **Incentive Amounts - \$3K to \$32K per Vehicle Depending on Vehicle Weight**
 - **\$6.447 Million for Light-, Medium-, and Heavy-Duty Vehicles**

CEC AB118

Alternative Fuel Infrastructure Funding

- ◆ **Purpose: Meet State Climate Change and Energy Policies**
- ◆ **Leverage Federal, State, and Local Funding**
- ◆ **Infrastructure Funding To-Date**
 - **Charging Infrastructure - \$5.6 Million**
 - **Hydrogen Fueling Stations - \$15.7 Million**
 - **Natural Gas - \$5.1 Million**
 - **E85 Fueling Stations - \$1.0 Million**

MSRC Incentives Vehicles – Current Opportunity



Medium & Medium-Heavy-Duty Vehicles

- Up to \$10K/Vehicle for GVRW 8,501 to 14,000 lbs., \$25K/Vehicle for 14,001 to 26,000 lbs.
- Dedicated Alternative Fuel Engines or Zero-emission Drive Systems
- Application Deadline is September 28 (Oversubscribed, but Additional Funding may be Added)

MSRC Incentives Infrastructure – Current Opportunity



- ♦ **Alternative Fuel Infrastructure Program**
 - **CNG or LNG**
 - **50% of Project Cost; Maximum per Station \$100K to \$250K Depending upon Applicant Type, Accessibility, Number of Fuels**
 - **Up to \$75K for Maintenance Facility Modifications**
 - **Deadline: September 28**

CNG Vehicle Demonstration Programs

CNG Police Vehicle Demonstration Programs

- **City of Redlands (Conversion):
Approved Feb. 6, 2009**
- **City of South Pasadena (New Vehicle):
Approved Feb. 6, 2009**
- **LA County Sheriff Dept. (Conversion):
Approved Oct. 2, 2009**
- **District-Wide CNG Police Vehicle Demo:
Approved Nov. 4, 2011**
- **Second District-Wide CNG Police Demo:
Approved May 4, 2012**



CNG Concrete Mixer Demonstration Program

- ◆ **Assess Commercial Viability / Partner with McNeilus Truck Manufacturing Co.**
- ◆ **Engine / Chassis / Mixer Body Development**
- ◆ **Collect Emissions Data**
- ◆ **Eight Companies Demonstrated Vehicle, July 2008 to October 2009**
- ◆ **Vehicle Met or Exceeded Performance Expectations**



CNG Home Refueling Appliance

◆ Equipment Description

- Compact 4 Stage Compressor
- Time Fill, 4 GGE in 10 hours

◆ Initial Program

- AQMD/MSRC Funding, \$2K Incentive/Unit
- 268 Units Purchased

◆ Current Program

- AQMD/MSRC Funding, \$2K Incentive/Unit
- Total \$356K Available
- Will Commence Shortly

Natural Gas Vehicle Purchase Co-Op

- ◆ Allows Fleets to Purchase NGVs with Dealers Qualified through Competitive Bid Process
- ◆ Free of Charge
- ◆ For Additional Information: David Kantor at dkantor@calstart.org or (626) 744-5611



Natural Gas Vehicle Taxicab Buy-Down Program

- ◆ **\$3K Match with CEC AB118 Funds**
- ◆ **Approved 7/8/11**
- ◆ **SULEV Certified**
- ◆ **CNG Ford Transit Connects**
- ◆ **Operating in AQMD Jurisdiction**



Take-Away Messages

- ◆ Health Impacts are Severe
- ◆ Need to Expedite Turnover of Older Engines
- ◆ Technological Solutions are Available
- ◆ Need to Further Define Natural Gas Role
- ◆ All Levels of Government/ Private Sector Must Act
- ◆ *Our Progress Dictates Their Future!!*

