

Clean Fuels Program Advisory Group



August 19, 2010





Dean Saito, Manager, On-Road Mobile Source South Coast Air Quality Management District

Light- and Medium-Duty Vehicles

- Sources and Emissions
- Expanding Voluntary Vehicle Retirement & Repair
- In-Use Emissions
- Remote On-Board Diagnostics



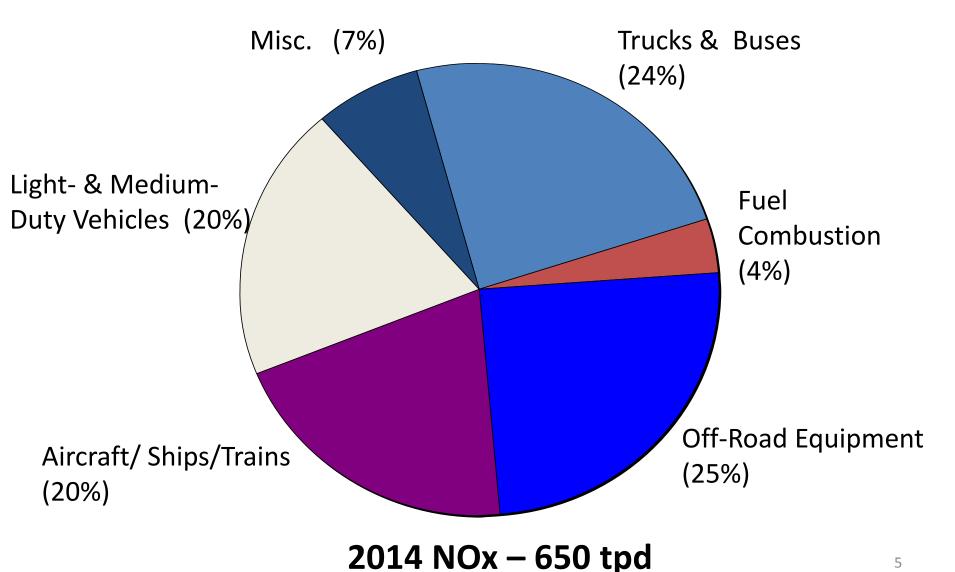
Definitions

- Light-Duty < 6,000 lbs. GVWR
 - Passenger Vehicles, Light-Duty Trucks, SUVs, Motorcycles
 - Natural Gas, E85, Gasoline, Diesel
 - Hybrid, Electric, PHEV, Fuel Cell
- Medium-Duty 6,000 lbs. < GVWR < 14,000 lbs.
 - MD Trucks
 - LHD Trucks
 - Natural Gas, E85, Gasoline, Diesel

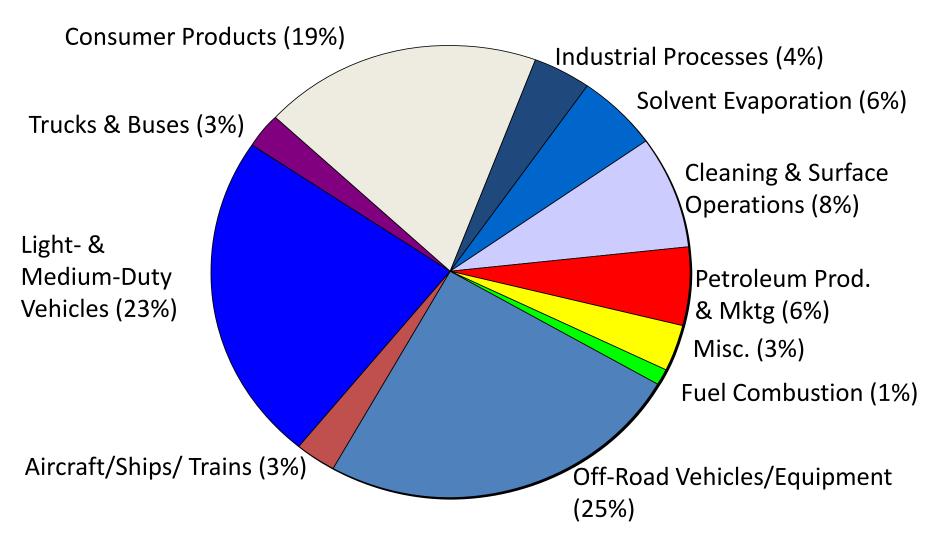
Sources and Emissions

- Passenger Vehicles Account for About
 23 percent of ROG; 20 percent of NOx; and
 11 percent PM2.5 emissions in the South
 Coast AQMD
 - Passenger vehicles include: cars, light trucks, SUVs, minivans, motorcycles

Major Contributors to NO_x (2014)

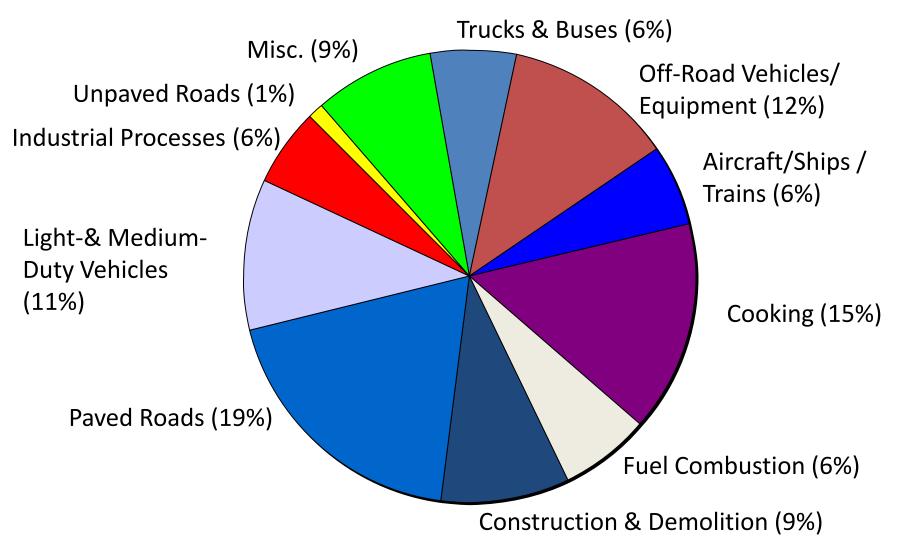


Major Contributors to VOC (2014)



2014 VOC - 569 tpd

Major Contributors to PM 2.5 (2014)



2014 PM 2.5 – 100 tpd

Existing Programs

- More Stringent Emission Standards for New Light- & Medium-Duty Vehicles
- Smog Check for Light- and Medium-Duty Vehicles
- Accelerated Fleet Turnover
- On-Board Diagnostics

In-Use Emissions

- Reducing In-Use Emissions Critical
- How To Effectively Accelerate Vehicle Turnover?
- Hurdles to Overcome
 - Continuous Registration Reqs.
 - Voluntary Nature
- Current Scrapping Program
 - AB 118
 - Unocal
 - High-Emitter

Potential Smog Check Improvements

- AB2289 Smog Check Program: Testing
- IMRC Report to the Legislature
- Sierra Research Report Effectiveness of California's Smog Check Program
- OBD III Continuous Testing Program

AB 118

- Current BAR Program Goal is to Scrap About 18,000 Cars per Year
- Proposed Program Through AB 118
 - SCAQMD Additional 50,000 vehicles per year
 - SJVAPCD Additional 10,000 vehicles per year
 - Failing and passing vehicles are eligible
 - Higher per vehicle incentive
- Retired vehicle to receive voucher for purchase of "newer" vehicle
- Administered through air districts beginning in 2010

AB 118

- Target:
 - Pre-1976 vehicles
 - Eligibility determined via BAR database (age, history)
- \$2,000 Base Voucher for Replacement with Newest Four Model Years
- Purchases through commercial car dealerships
- \$500 Additional for Income-Eligible Replacement with Newest Ten Model Years
- Replacement "Voucher" Program
 - South Coast 2,500
 - San Joaquin 500

Unocal Settlement-Reformulated Gasoline Antitrust & Patent Litigation

- Proposal to Retire & Repair 17,250 highemitting light & medium duty vehicles statewide.
- VRRRM for CAP
- VRRRM for HEROS
- VRRRM for PASS
- VRRRM Replacement Incentive

Presenters

- Dipankar Sarkar Light-Duty Vehicles
- Jeff Cox Medium Duty Vehicles
- Larry Watkins Hydrogen Fueling Stations
- Matt Miyasato EV Infrastructure