



Clean Fuels Program Advisory Group



February 3, 2010



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South Coast Air Quality Management District

Light- and Medium-Duty Vehicles

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



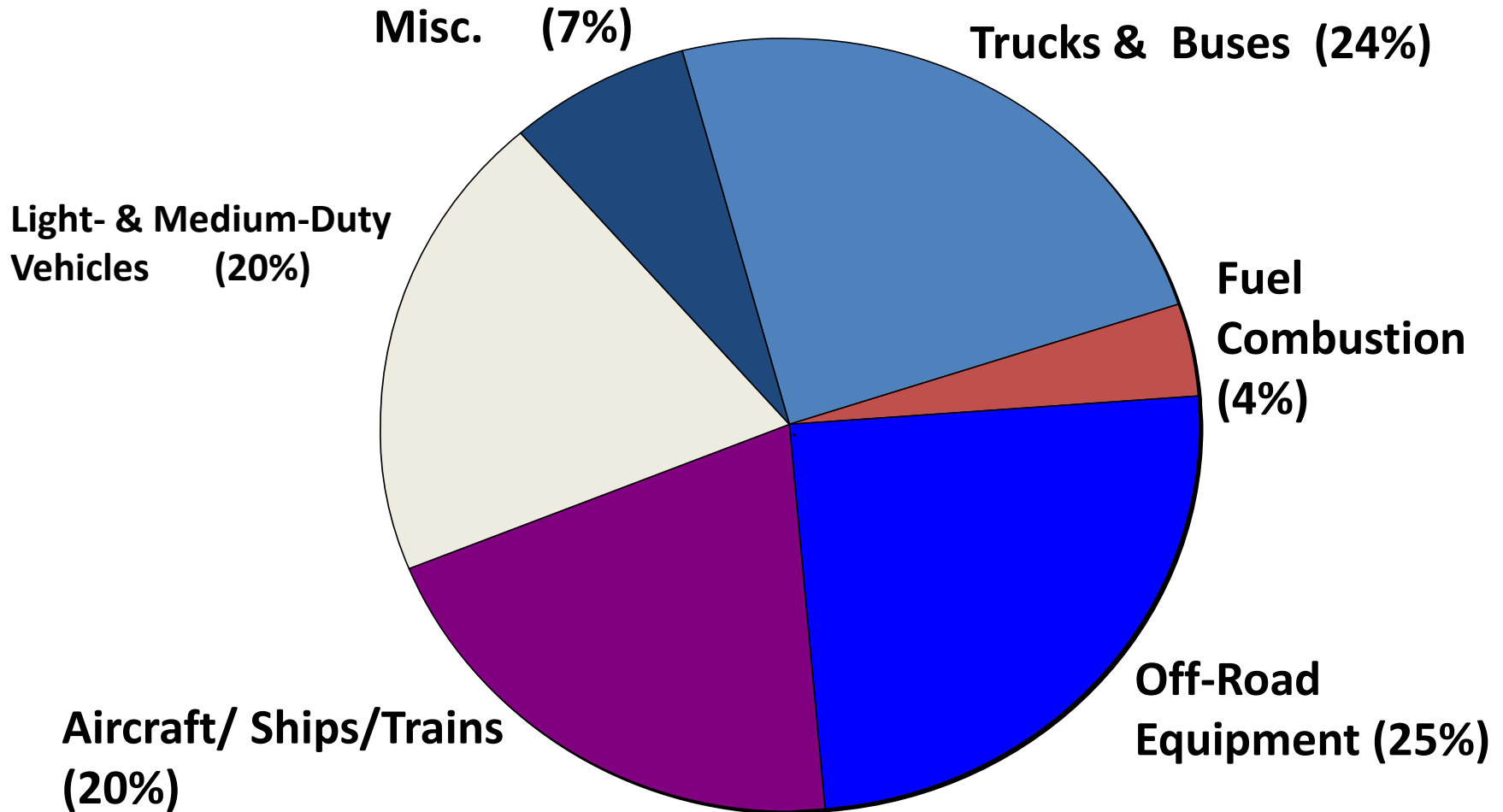
Definitions

- 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

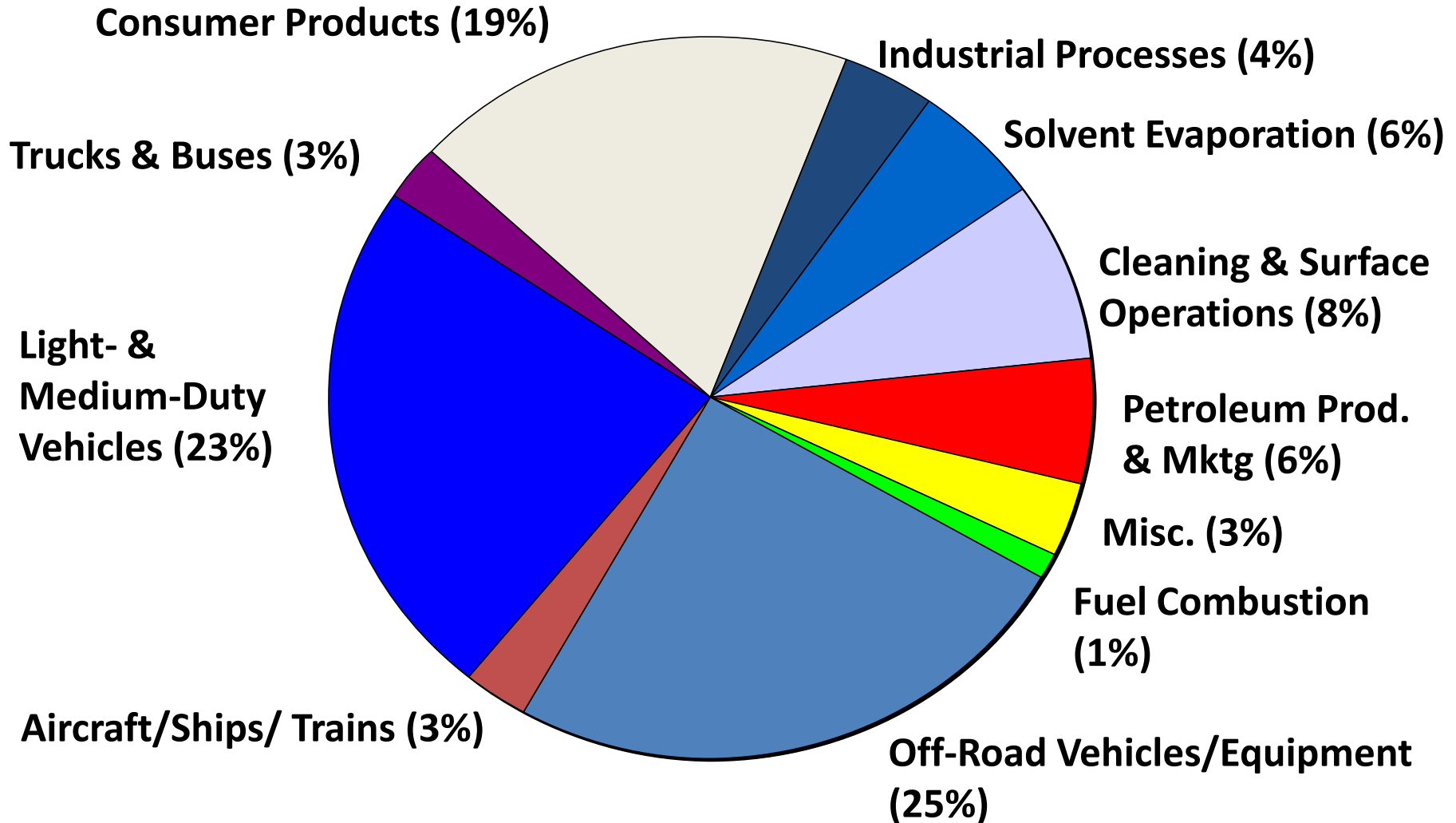
- Passenger Vehicles Account for About 23 percent of ROG; 20 percent of NO_x; and 11 percent PM_{2.5} emissions in the South Coast AQMD
 - Passenger vehicles include: cars, light trucks, SUVs, minivans, motorcycles

Major Contributors to NO_x (2014)



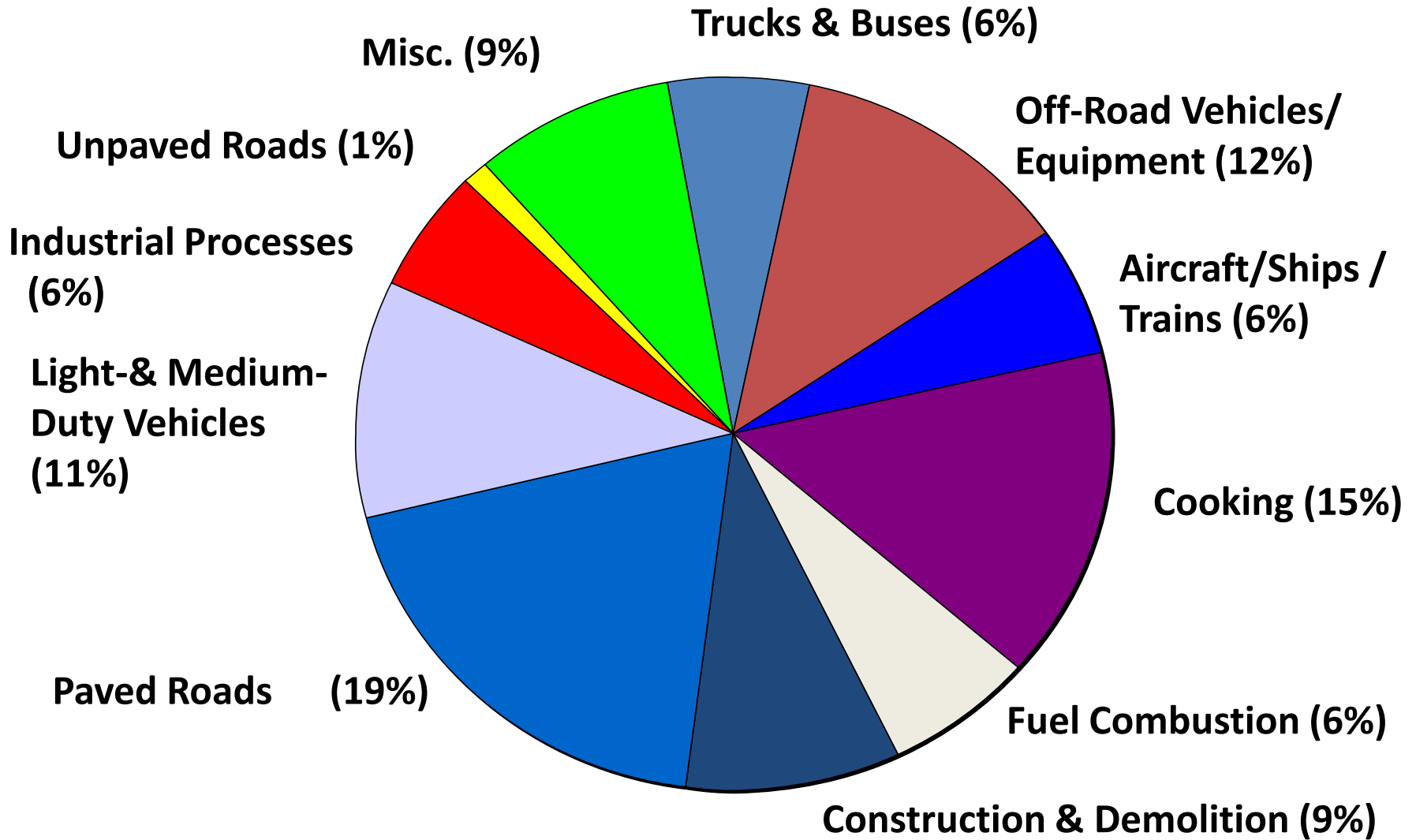
2014 NO_x – 650 tpd

Major Contributors to VOC (2014)



2014 VOC – 569 tpd

Major Contributors to PM 2.5 (2014)



2014 PM 2.5 – 100 tpd

Existing Programs

- Aggressive 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?
- SIP Commitments for South Coast in 2014:
 - AQMD High Emitter Repair or Scrap (HEROS)
 - 1.4 TPD ROG 0.9 TPD NO_x
 - State's Expanded Vehicle Retirement Program
 - 2.8 TPD ROG 2.4 TPD NO_x

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
- Potential Reductions of 2.8 TPD ROG and 2.4 TPD NO_x in South Coast in 2014

AB 118

- Retired vehicle to receive voucher for purchase of “newer” vehicle
- Replacement - Voucher Program for Vehicle Replacement Focused in South Coast and San Joaquin Valley
- Administered by ARB Beginning in 2010
- Administered through local air districts

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**

Presenters

- Lisa Mirisola - Light-Duty
- Jeff Cox - Medium-Duty
- Lori Berard – In-Use Emissions (Remote Sensing)