

Clean Fuels Program Advisory Group September 3, 2009

Session 1:

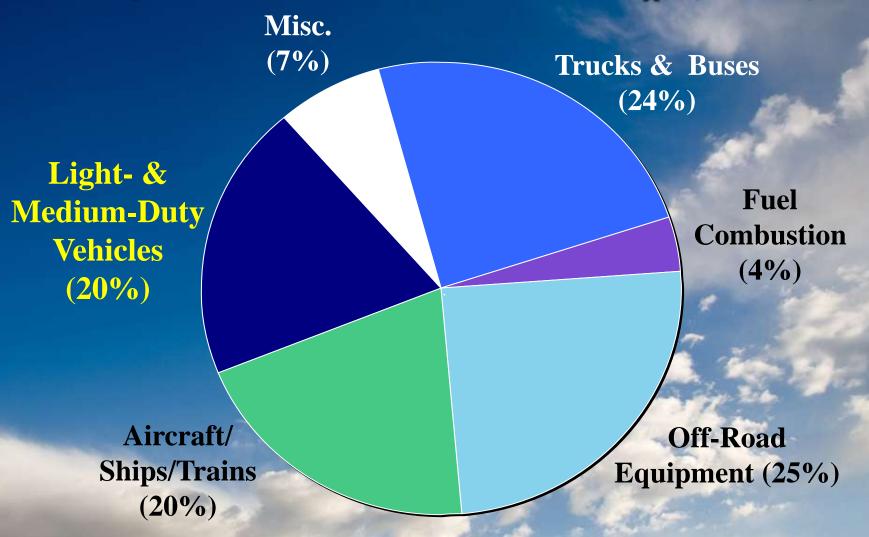
Light- and Medium-Duty Vehicles

Dean Saito, Manager On-Road Mobile Source

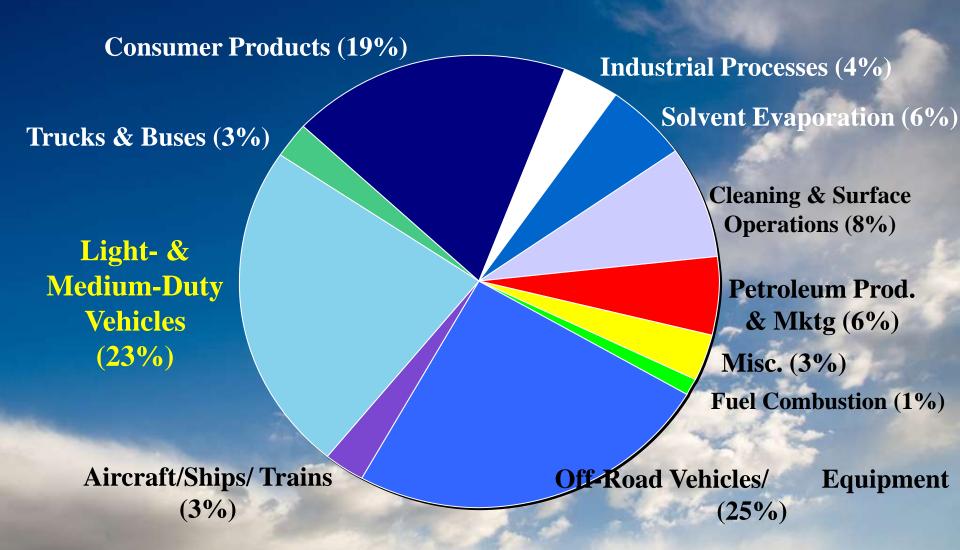
Definitions

- Light-Duty < 6,000 lbs. GVWR</p>
 - 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

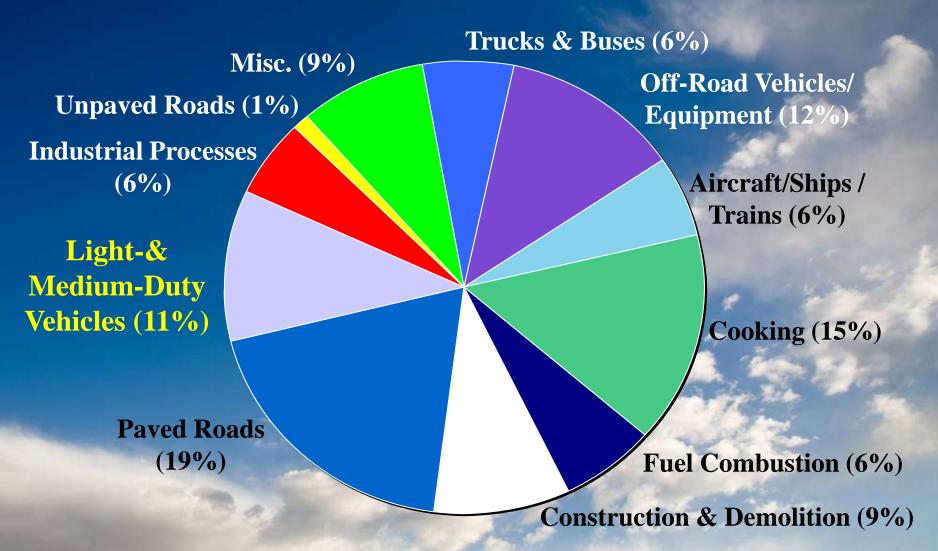
Major Contributors to NO_x (2014)



Major Contributors to VOC (2014)



Major Contributors to PM 2.5 (2014)



Existing Programs

- Aggressive Emission Standards for New Light- & Medium-Duty Vehicles
- Cleaner Fuels
- On-Board Diagnostics
- Smog Check for Light- and Medium-Duty Vehicles

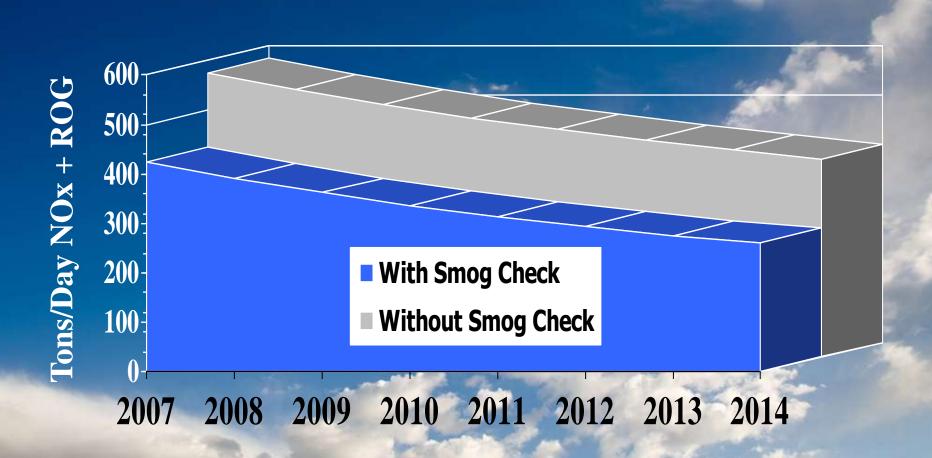
Constraints in Achieving Standards

South Coast Air Basin



- Projected Increases:
 - 15% ↑ Population (17 mil. in 2014)
 - 18% ↑ Number of Vehicles (11 mil. in 2014)
 - 12% ↑ VMT (392 mil. in 2014)

Benefits of Smog Check



MSRC Program Remote On-Board Diagnostics (OBD)

- OBD Continuously Monitored Via Wireless System
- Participating Vehicles:
 - Exempt from Biennial Smog Check
 - If Repairs Made Within 45 Days of Malfunction Indicator Light Illumination
- ~ 150 Entities Participating in South Coast

MSRC Program Remote OBD (Continued)

- Potential Creditable SIP Emission Reductions
 - Due to early repair of vehicles
 - With smog check, repairs delayed up to 2 years
- Examples of Emission Benefits:
 - 1 Participating UCLA Fleet
 - *17 Vehicles Participating, Mostly Full-Size Vans
 - 2 Potential Reductions from Entire UCLA Fleet
 - ♦1,100 Vehicles, Largely Full-Size Vans