



**California Air Resources Board
Strategies to Reduce Diesel Emissions
that will Benefit the
I-710 Corridor**

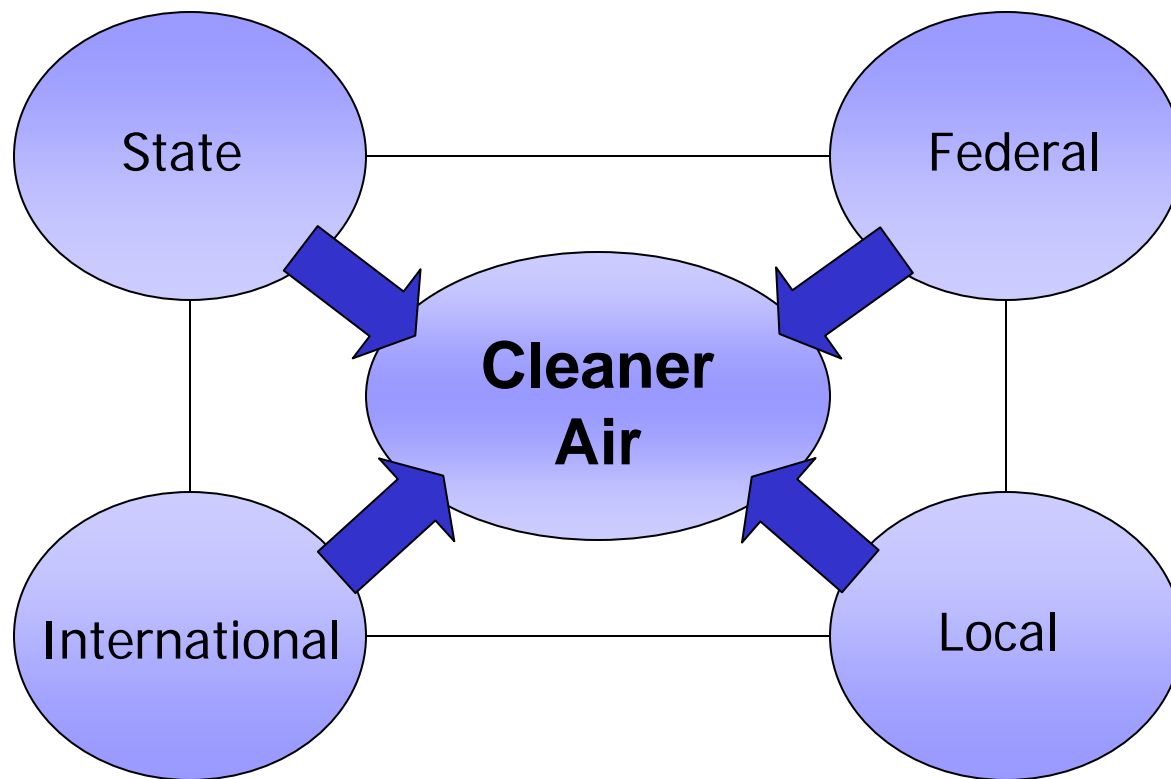
March 19, 2004

California Environmental Protection Agency



Air Resources Board

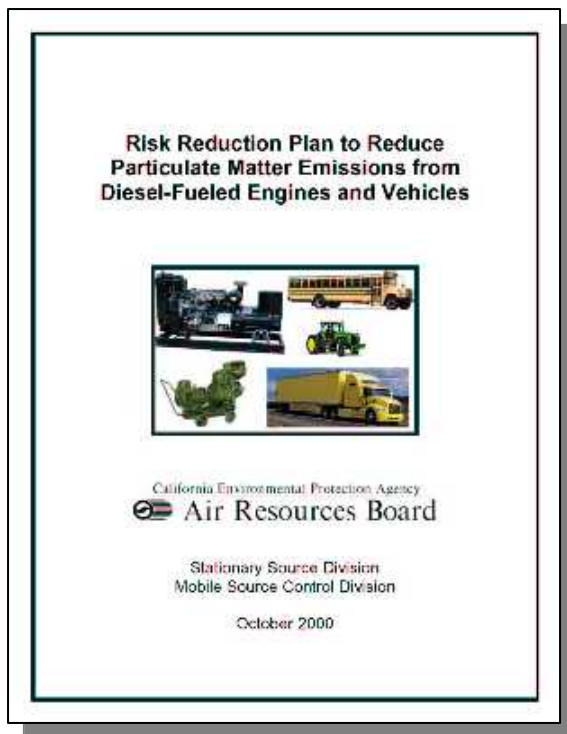
Improving Air Quality is a Cooperative Effort



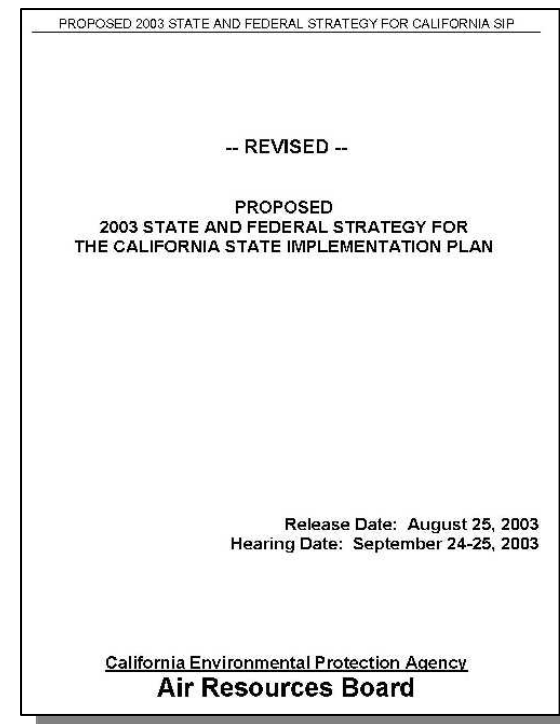
Existing Programs will Result in Significant emission Reductions

- ◆ New Engine Standards
 - Implementation will result in new engines over 90% cleaner than uncontrolled engines
- ◆ In-Use Strategies
 - Carl Moyer Incentive Program
 - Support Local Programs I.e. Gateway Cities
 - Heavy-Duty Vehicle Inspection Program
 - Periodic Smoke Inspection Program
- ◆ Emission benefits will directly affect those communities located near Ports

Framework For Continued Improvement



Governor's Action Plan



New Measures for On-Road Trucks

- ◆ Pursue approaches to clean up new trucks
 - HD Engine Diagnostics
 - Truck Idling Restrictions
 - Mfr. Required in-use testing
- ◆ Pursue approaches to clean up the existing on-road vehicles
 - Diesel In-Use Fleet Rules
 - Engine Software Upgrade (“Chip Reflash”)
 - Idling Restrictions
 - HD In-Use Compliance Program
 - Vapor Recovery for fuel cargo carriers
 - Truck Refrigeration Units
- ◆ Augment truck and bus highway inspection with community-based inspections



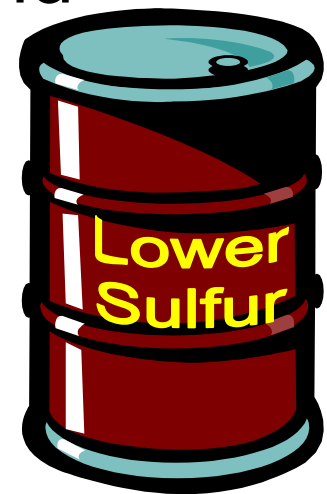
New Measures for Off-Road Equipment

- ◆ Pursue approaches to clean up existing off-road vehicles and equipment
 - Diesel In-Use Fleet Rules: Public and Private fleets (construction equipment, cargo handling equipment etc.)
 - Stationary Engines
 - Portable Equipment



New Measures for Fuels

- ◆ Set additive standards for diesel fuel
- ◆ Set low-sulfur standards for diesel fuel for trucks/buses, off-road equipment, and stationary engines (ADOPTED)
- ◆ Extend applicability of CARB diesel to marine and locomotive



New Measures for Ships/Boats/Ports

- ◆ Pursue more stringent new engine standards
- ◆ Reduce emissions from existing harbor craft
- ◆ Reduce emissions from in-use oceangoing ships
- ◆ Reduce Port land-side emission sources



Collaboration Necessary to Identify and Adopt Additional Long Term Measures

- ◆ ARB to lead multi-agency effort and public process
- ◆ Goal to identify and evaluate potential long term measures and adopt where feasible
- ◆ 1st Step - SIP Summit January 2004

Progress

◆ Recently Adopted Measures

- Refuse Haulers
- Stationary Engines
- Truck Refrigeration Units
- Portable Engines
- Verification Procedure
- School Bus Idling
- Low Sulfur Diesel Fuel

◆ Additional Measures for 2004

- Chip Reflash
- Idling Limits for New Trucks
- Engine Diagnostics for New Trucks
- Idling Reduction for In-Use Trucks
- Control Measure for Publicly Owned or Operated Fleets
- Extend applicability of CARB diesel to harbor craft and intrastate locomotives
- Off-Road Public Fleets

