

# Mobile Source Retrofit Program

Annette Hebert, Chief  
Heavy-Duty Diesel In Use  
Strategies Branch  
February 5, 2001

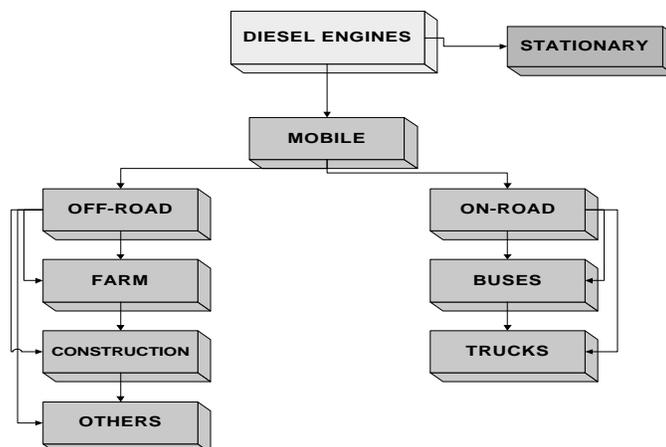
California Environmental Protection Agency



Air Resources Board



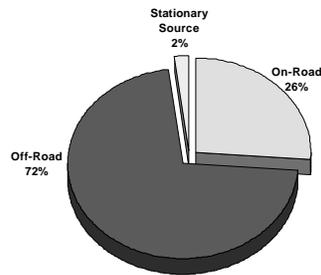
## Categories of Diesel-Fueled Engines



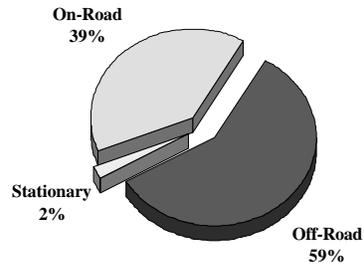
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# Diesel Engine Emissions



**Diesel PM**  
(Statewide-2000)



**NOx**  
(Statewide-2000)



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# Diesel Retrofit Strategies - Proposed by DRRP

- **On-Road Fleets**
  - Publicly-owned and -contracted HD fleets
  - Privately-owned HD fleets
- **Off-Road Fleets**
  - Publicly-owned and -contracted fleets
  - Privately-owned fleets



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# Non-Regulatory Strategies - Proposed by DRRP

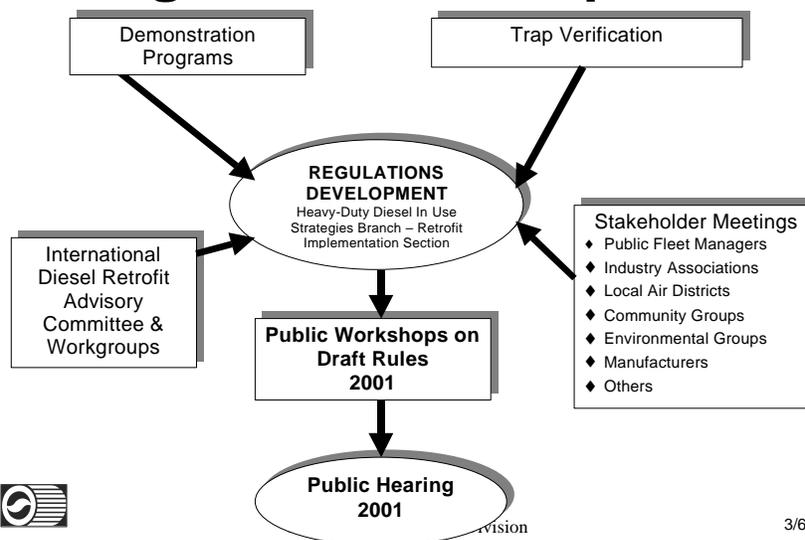
- **Locomotives Retrofit**
- **Commercial Marine Ships**
  - Tugs and Fishing Boats
- **Emergency Vehicles**
- **Airport Ground Support Equipment MOU**
- **Transportation Control - Idling Restrictions**



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# Public Process for Regulation Development



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# Retrofit Rule Development

- **2001**
  - Refuse Haulers
  - Fuel Delivery Tanker Trucks
- **2002**
  - Device Verification
  - Additional On-Road Fleets (tbd)



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# Regulatory Concepts

- **ARB Verified Devices**
- **Retrofit Schedule**
- **Exemptions**



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## Regulation Issues

- **Availability of ultra-low sulfur fuel**
- **Technology feasibility by application**
- **Technology feasibility by engine type/model year**
- **Inspection & Maintenance**
- **Cost**



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## Contacts

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