



# **SMAQMD Heavy-Duty Vehicle Incentive Programs**

**November 8<sup>th</sup>, 2006**

teamwork

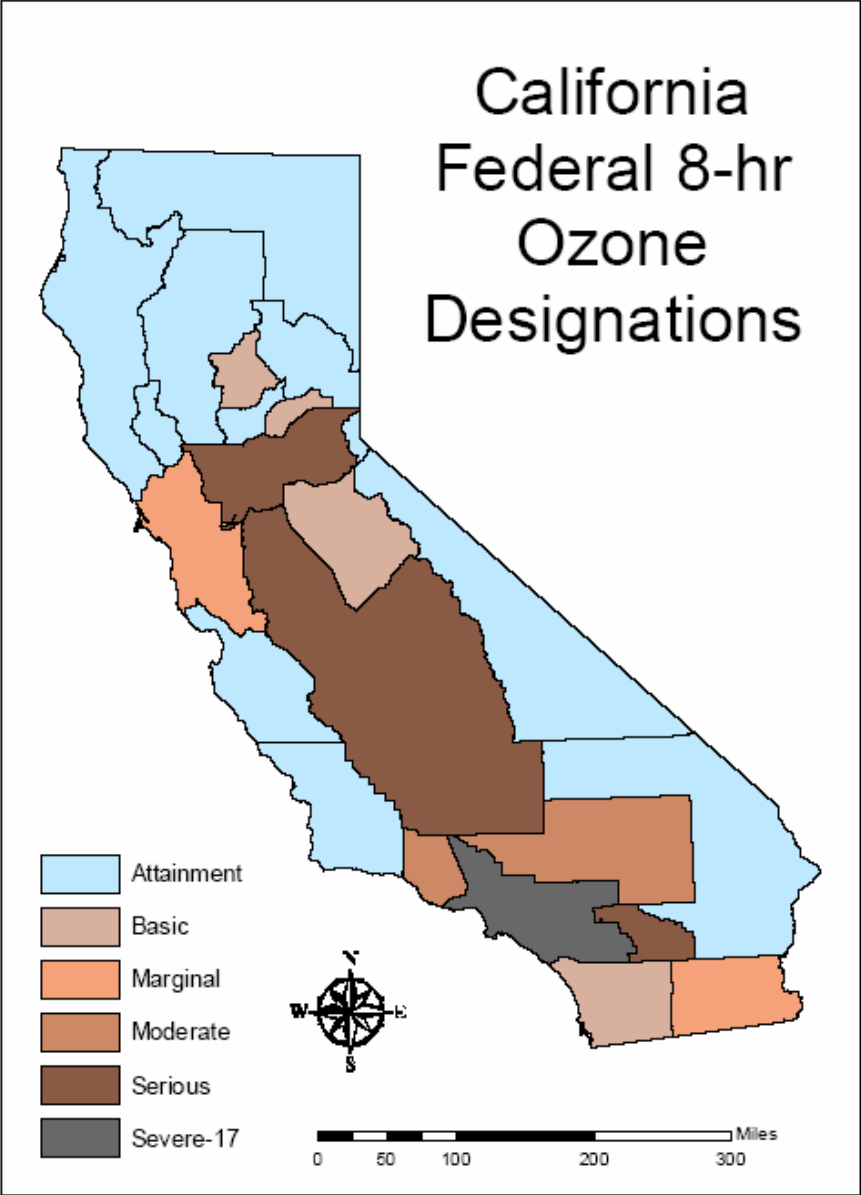
teamwork

# GOOD AFTERNOON

---

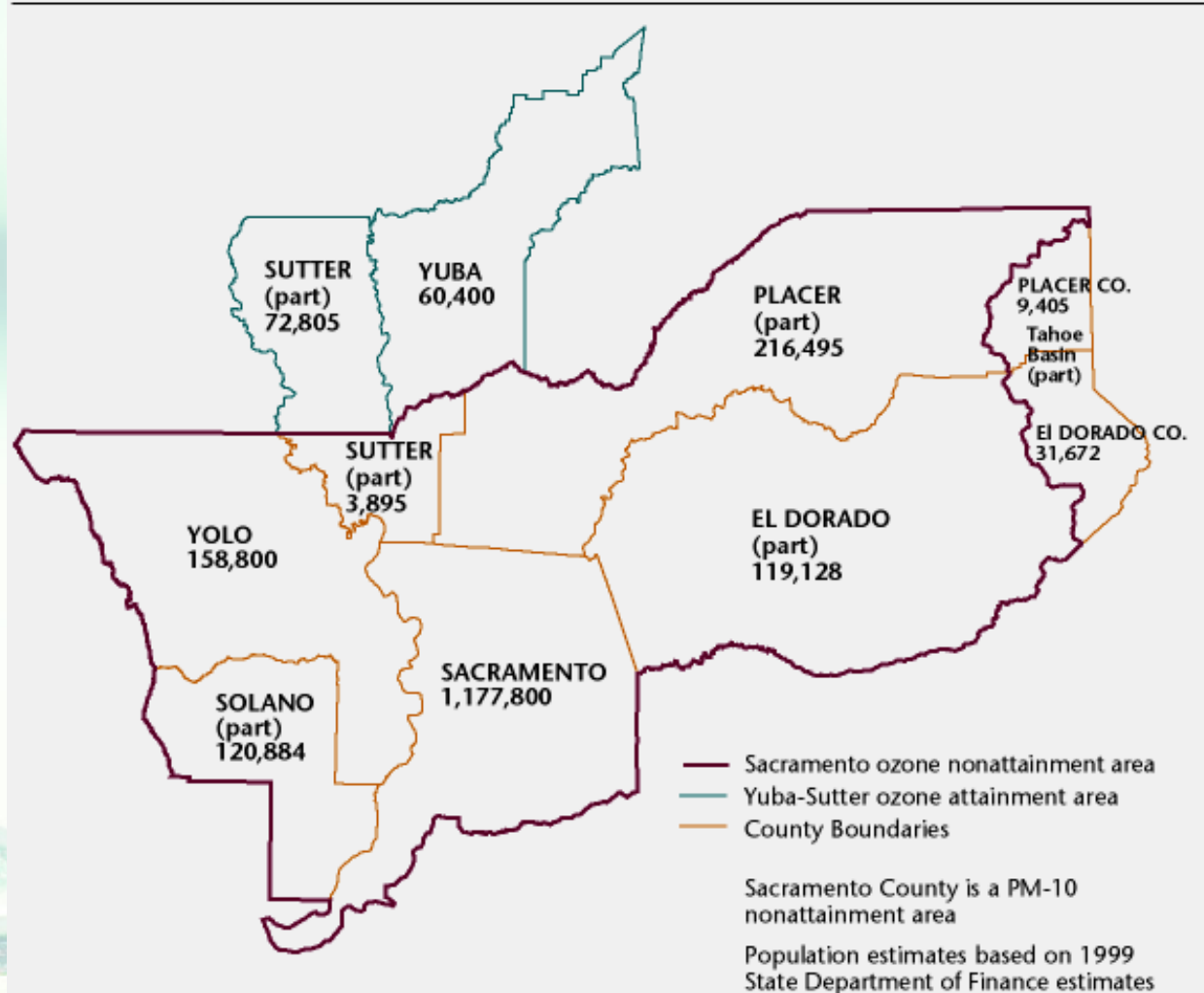
- Here to present an overview of the Sacramento Metropolitan AQMD Heavy-Duty Vehicle Incentive Program

# California Federal 8-hr Ozone Designations



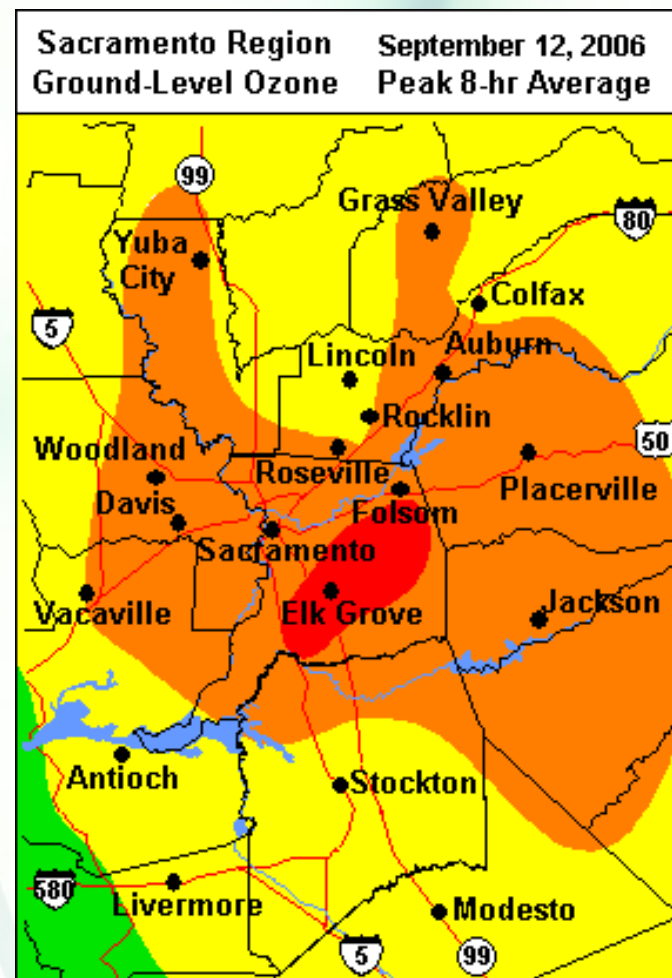
# Non-Attainment Area Map

## FEDERAL AIR QUALITY PLANNING BOUNDARIES



# Sacramento Air Quality

- 7<sup>th</sup> Worst Air in U.S.A.
- Average 51 days/yr with AQI > 100
- Summer Ozone
- Winter Particulates
- Serious Nonattainment for Federal 8-hr Ozone
- Exposure to PM 2.5 and Air Toxics
- 70% of Pollution from Mobile Sources



# Program History

---

- The District created the Heavy-Duty Vehicle Incentive Program in 1996
  - Used local DMV & Measure A sales tax funds
- The Carl Moyer Program started in 1998 and used CA state funds
- The Sacramento Emergency Clean Air Transportation (SECAT) Program started in 2000.
  - State and Federal funds are used for this program
- The West Coast Diesel Collaborative started about two years ago and EPA funding is limited but growing

# Carl Moyer Memorial Program

---

- Originated by consultant Carl Moyer
- Originally designed to meet 1994 SIP Goals and NOx shortfall; These goals are being updated to meet the 8 hour Federal Ozone standard
- Provides incentives for both on-road and off-road engines and vehicles
- Types of projects funded include repowers, retrofits, new vehicle purchases (i.e. CNG buses), and fleet modernization
  - SECAT and Measure A funds have same goals as CM program but only fund on-road projects.
  - DMV funds have same goals as CM program, but does not fund agricultural pumps or locomotives.

# Replace, Repower, Retrofit

Replacement involves destroying the old unit and replacing it with a newer, cleaner version.



Repower involves replacing the old engine with a newer, cleaner engine.

Retrofitting vehicles and equipment involves the use an emission-reducing device or fuel.



# Marketing Slogans

## MOYER



4Moyer.org

## SECAT

Bucks for Trucks!

4SECAT.com

# Incentive Programs



- Grants provided to offset the cost of buying a newer vehicle or retrofit system
- Project funding based on cost-effectiveness (\$/ton)
- Very successful program benefiting both the public and private sectors for our air quality and for our economy

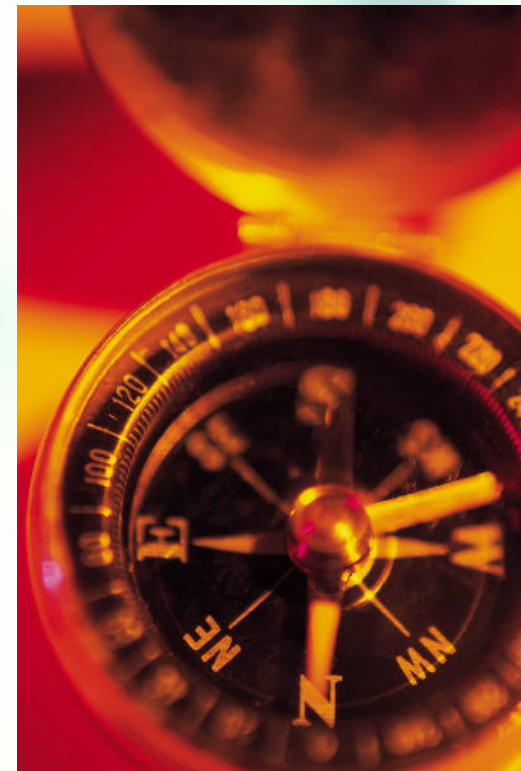
# HD Incentive Program Process

---

- SMAQMD Projects approved on a first-come, first-served basis
- Open to all heavy-duty diesel fleets
- Funding based on historic operation of miles or hours in the Sacramento Region and age of equipment

# HD Incentive Guidelines Overview

- All projects must produce claimable emission reductions
- Target heavy-duty mobile sources
- Cost Effectiveness limit of \$14,300/ton of emissions for Moyer Projects
- Projects must operate in the Sacramento region
- Minimum 5-year contract



# Application Process

- Application packet delivered to District
- Project evaluated for completeness
- Contact participant for pre-inspection
- Application approved
- Contract issued
- Post-inspection of reduced emission control device
- Invoice submitted & check issued



# Average Project Timeline

- Process Application (3-5 Business Days)
  - Project Pre-Inspection (1 Week)
  - Process Participant Agreement (2-4 Weeks)
  - Participant completes low emission project (timeline varies)
  - Check Received (4-6 Weeks after invoice and Post-Inspection)
  - Typical project start to finish is 3-6 months
- \* Timeline dependent on a number of variables



# Participant Expectations

---

- Provide accurate historic operation in Sacramento region
- Operate the new vehicle in the same vocation as their old vehicle
- Respond to usage surveys and follow-up inspections (if applicable)
- No tampering with vehicle and/or engine

# Dealer Expectations

---

- Market the program and find qualified participants with help of District
- Liaison between District and Participant
- Handle equipment/vehicle paperwork
- Work with participant or salvage yards for destruction
- Help manage potential problems

# Financial Big Picture

---

- Approximately \$66 million has been paid out over the last 10 years and another \$32 million is in process.
- Approximately \$50 million on-road and about \$16 million off-road.

# Local Incentive Programs



**SECAT**  
Bucks for Trucks!  
4SECAT.com

- Carl Moyer Program
  - Off-road focus
  - \$6 million per year
- SECAT Program
  - On-road focus
  - \$70 million one-time
  - Only \$11 million left
- Local Programs
  - DMV, Measure A
  - Construction Mitigation
  - \$2-4 million per year
- Other Grants

# Emission Reductions

---

- More than 3,400 re-powered, retrofitted or new cleaner engines with about 800 more coming.
- Reduced on-road NOx & PM10 by nearly 840 tons/yr & 76 tons/yr respectively.
- Reduced off-road NOx & PM10 by more than 1700 tons/year & 131 ton/yr respectively.
- Fleet modernization strategy provided greatest on-road benefits and repowers provided the greatest off-road benefits

# District Support & Contacts

- Our mission is to provide excellent and timely support to our dealers and participants
- Our goal is to spend our incentive funding ASAP
- We're available to answer any questions or handle any potential issues



# Contact Information

---

Mike Neuenburg

Program Coordinator, Mobile Source  
Division, SMAQMD

(916) 874-1676

[mneuenburg@airquality.org](mailto:mneuenburg@airquality.org)

- Additional mobile source staff E-mail Addresses are available at our website [www.airquality.org](http://www.airquality.org)