

Yolo-Solano
Air Quality Management District
Air Quality Incentive Programs

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East Bay Clean Cities Coalition
Clean Air Vehicle Funding Workshop

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Overview

District Background

Air Pollutants of Concern

Health Effects

Air Quality Incentive Programs



Background

Mission:

The Yolo-Solano Air Quality Management District is responsible for protecting human health and property from the harmful effects of air pollution.

Office: Davis, CA

District serves all of Yolo County and northeast portion of Solano Co.



Background

Local Jurisdictions

Yolo County

Davis

West Sacramento

Winters

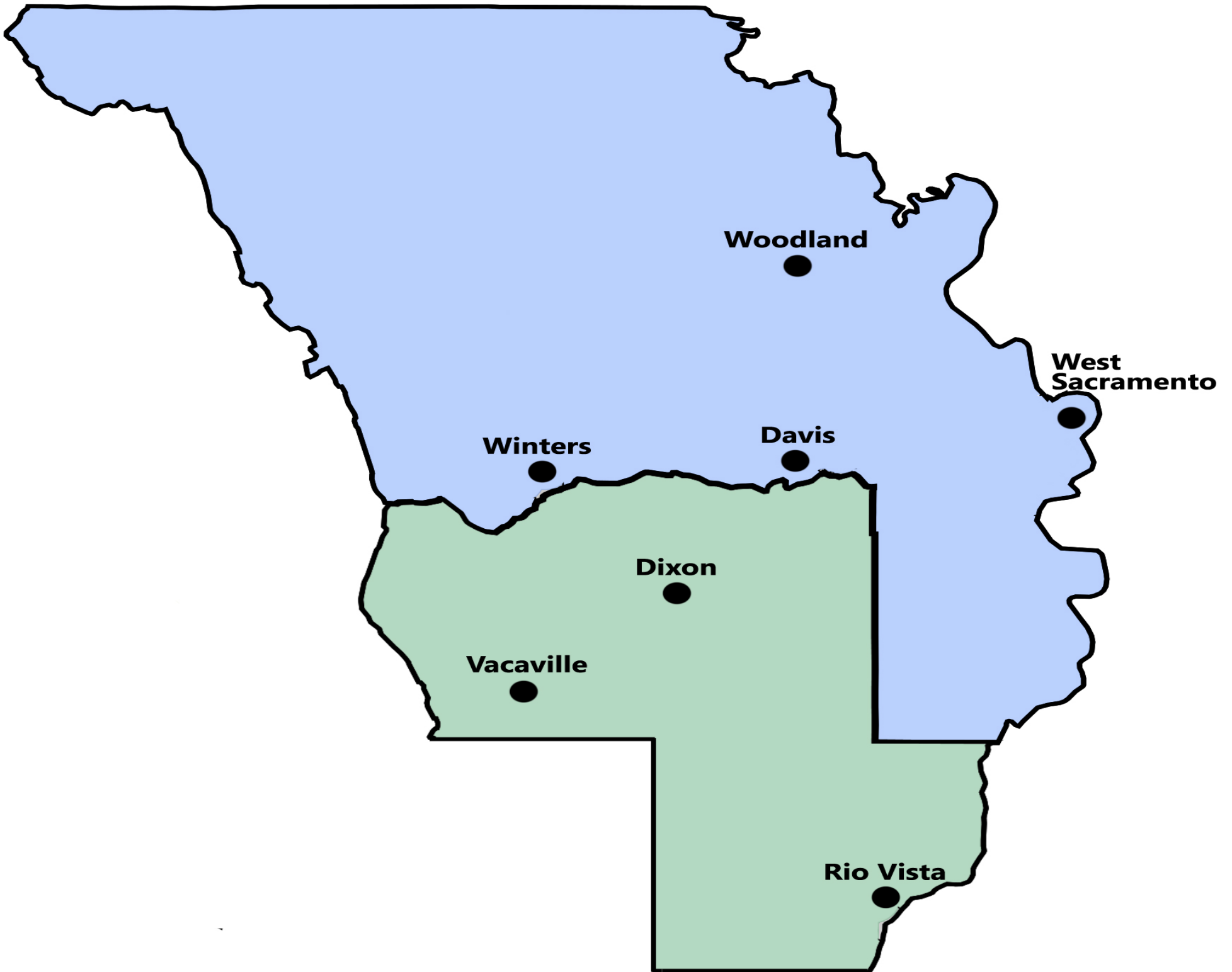
Woodland

NE Solano Co.

Dixon

Rio Vista

Vacaville

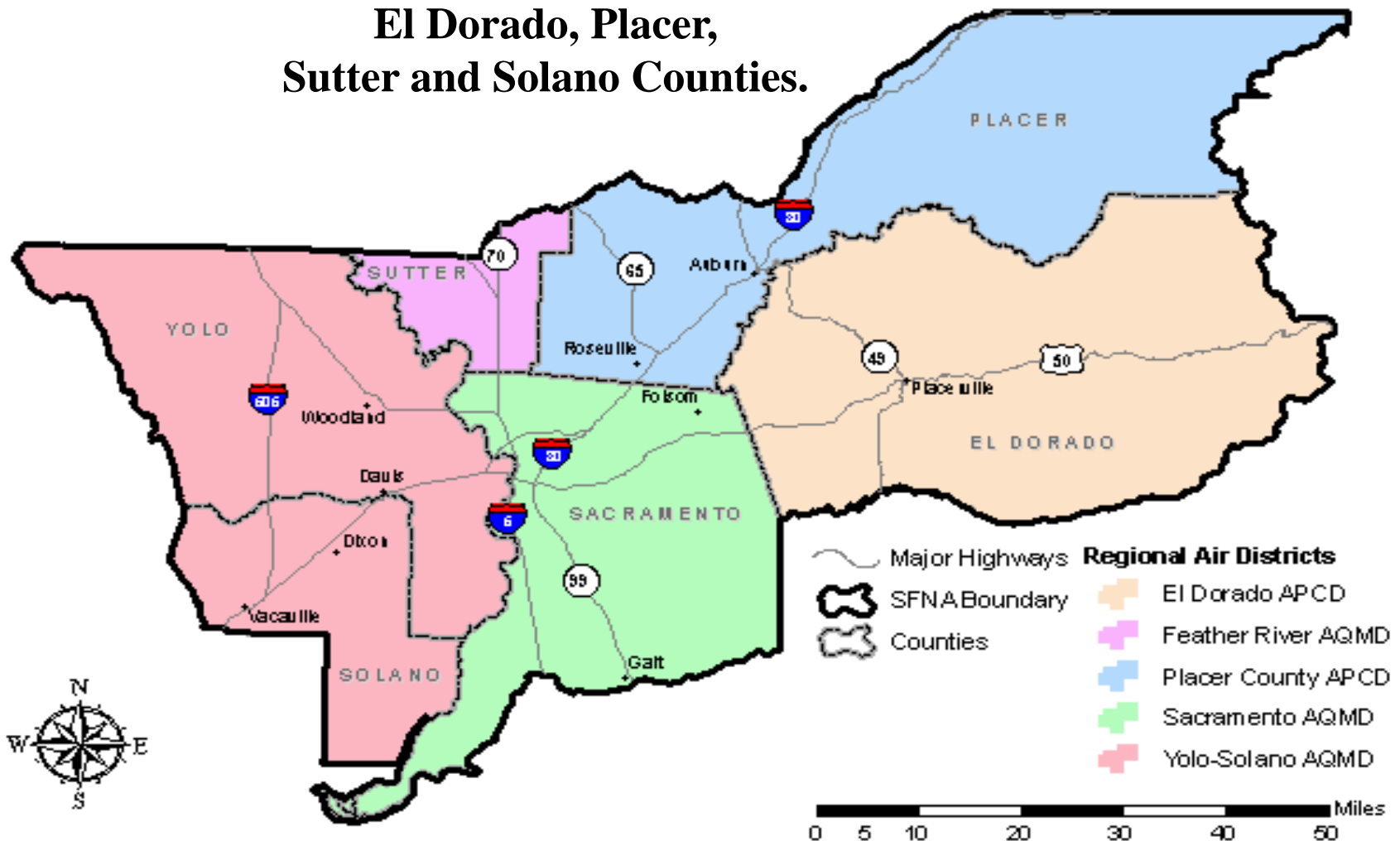


Sacramento Federal Nonattainment Area for 8 Hour Ozone Standard

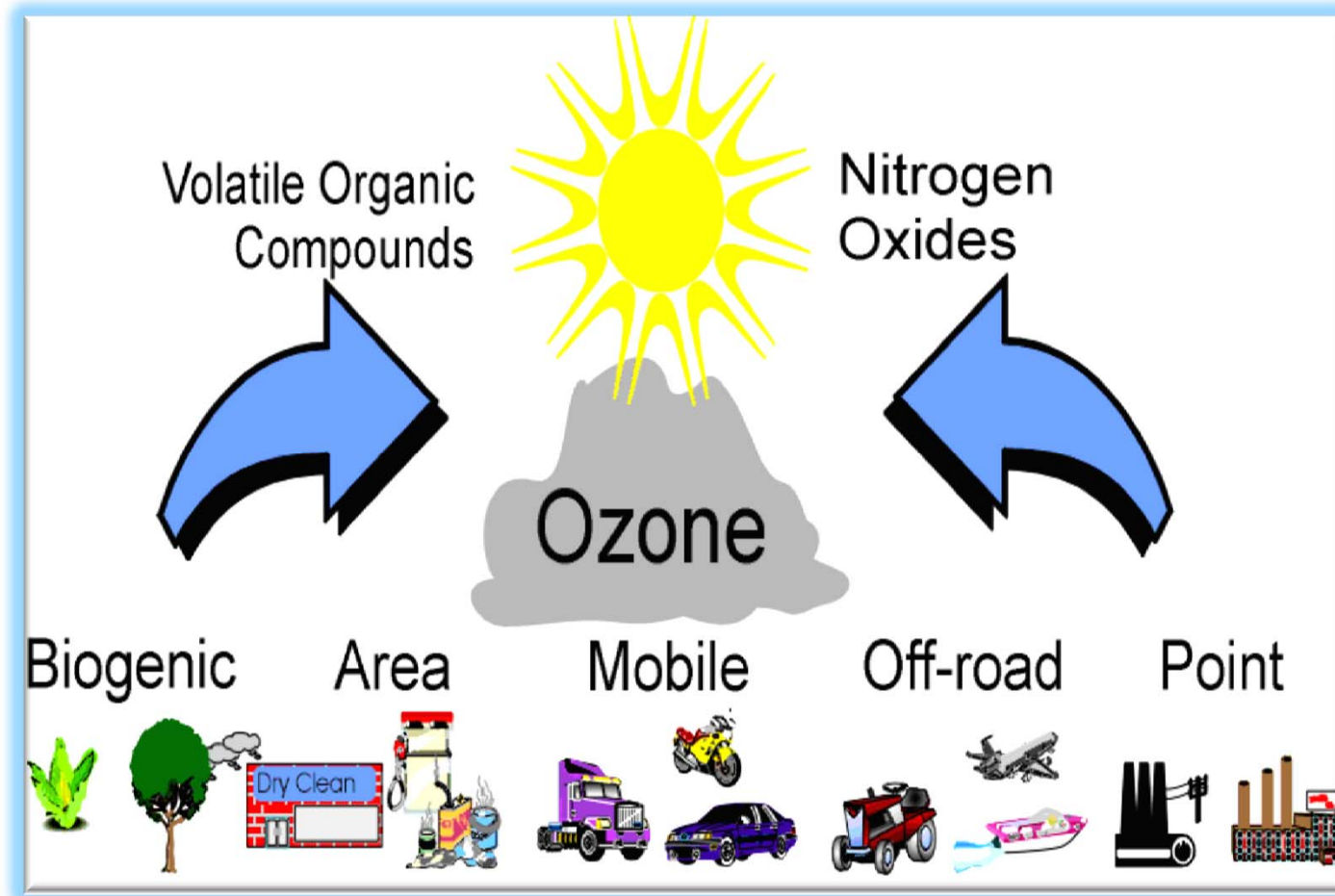


Classification : Severe
Attainment Deadline: June 2018

Includes Sacramento and Yolo Counties, and portions of El Dorado, Placer, Sutter and Solano Counties.



Air Pollutants of Concern



Air Pollutants of Concern

Particulate Matter (PM 10, PM 2.5)

Diesel PM
Statewide Toxic Air
Contaminant



Climate Change



Carbon dioxide (CO₂) emitted during the combustion of fossil fuels traps heat in the atmosphere and contributes to global warming.



Health Effects

Ozone

- Susceptibility to respiratory infections
- Increased risk of heart attacks and strokes
- Increase in mortality/premature deaths
- Damage to crops and natural vegetation

Particulate Matter

- Increased irritation of the airways, coughing or difficulty breathing
- Aggravated asthma
- Irregular heartbeat
- Heart attacks
- Cancer risk (diesel PM)



Incentive Programs

District's Incentive Programs:

- Clean School Bus Program
(completed)**
- Clean Air Funds Program**
- Upcoming Clean Off-Road Ag
Equipment and Municipal Fleet
Program**

Incentive Programs



Clean School Bus Program

- Approximately \$.5M Annually (AB 923/funds/\$2 DMV Fee)
- District has fully funded the replacement of all twenty two (22) 1978-86 school buses since 2006 with new lower emission buses (completes the program)
- Program included partnering with SMAQMD to retrofit 65 1987-2006 in-use school buses within the District using Prop 1B funds



Clean Air Funds Program

Objectives:

- **Reduce Emissions from Motor Vehicles**
- **Provide Local Match for other State/Fed/Local Funds**
- **Assist with Capital Cost**



Clean Air Funds Program

Project Eligibility: Clean Technologies Category (flexible)

- **Light, med, heavy duty, on- and off-road vehicle(s)**
- **Vehicle replacement**
- **New purchase w/cleaner technology**
- **Retrofit w/DPF**
- **Diesel/alternative fuel/hybrid/electric /infrastructure**



Clean Air Funds Program

Criteria for Funding Recommendations:

- **Air Quality Benefit**
- **Use of Cleaner Technologies**
- **Matching Funds**
- **Local vs. Regional Benefit**
- **Cost Effectiveness**

Clean Air Funds Program

Significant Past Partner Projects:

City of Vacaville Electric/CNG Vehicle Incentive Program (Assisted purchase of both municipal vehicles and private residents/commuter vehicles plus solar charging infrastructure)



Clean Air Funds Program

Significant Past Partner Projects:

**Unitrans (UC Davis/City of Davis transit fleet:
Assisted Conversion from Diesel to CNG**



Clean Air Funds Program

Significant Past Partner Projects: Yolo County Transportation District: Assisted Conversion of Transit Fleet from Diesel to CNG





Clean Air Funds Program

Current “Best Fit” Clean Vehicle Projects:

- **Replace/retrofit HD vehicles that don't meet Moyer cost effectiveness limits due to lower annual hours or miles**
- **Early compliance with Air Resources Board HD med/small fleet regulations (replacement/retrofit)**
- **Provide incremental or partial funding for advanced technology vehicles and infrastructure**

Clean Air Funds Program

Recently Funded Projects:

Recology of Vacaville: Replacement of a 2002 diesel refuse truck with 2013 CNG refuse truck - \$15,000



Clean Air Funds Program

Recently Funded Projects:

Solano County: Replace 1992 Motor Grader with new 2013 Tier 4 Grader - \$ 60,000 (23% of project cost)





Clean Air Funds Program

Recently Funded Projects:

City of Vacaville: Replace 2001 gasoline vehicle with new CNG Honda Civic - \$9500



Clean Air Funds Program

Recently Funded Projects:

City of Rio Vista: Replaced 1977 Pickup truck with new Neighborhood Electric Vehicle - \$12,000 (85% of cost)



Clean Air Funds Program

Recently Funded Projects:

UC Davis Fleet Services: Replaced 6 gas utility carts with electric utility carts - \$ 40,650 (42% of cost)



Clean Air Funds Program

Recently Funded Projects:

Valley Farm Transport, Dixon: Replace 1992 Yard Truck with 2013 Yard Truck - \$40,000 (35% of project cost)



Clean Air Funds Program

Recently Funded Projects:

Explorit Science Center, Davis : Replace 1997 Gasoline SUV with new Ford Transit Connect CNG Van - \$20,000 (53% of cost)





Clean Air Funds Program

Sources and Annual Funding Levels:

- \$4 Annual DMV Fee District Wide
- AB 8 Property Tax for NE Solano County

	Yolo Co.	NE Solano Co.
2013	\$60,000	\$290,000
2012	\$77,200	\$244,500
2011	\$67,000	\$262,500



Clean Air Funds Program

Application Process/Timeline:

- **Late January 2014: Applications available**
- **Late March: Application deadline**
- **April - May: Staff makes funding recommendations to Solano Clean Air Funds and Yolo Clean Air Funds Committees**
- **June: District Board awards funds to applicants**



Clean Air Funds Program

Grant Awards Process:

- **Board of Directors approves funding for projects**
- **Applicant enters into agreement with the District**
- **Applicant receives funds to implement the project**
- **Final Report due one year after project completion**



Upcoming AB 923 Funding Program

Currently Developing the Clean Off-Road Agricultural Equipment Program

- **\$.5M annually (\$2 DMV Fees)**
- **Replacement of Off- Road Mobile Agricultural Equipment w/new Cleaner Equipment (25 hp and up)**
- **Replacement/Retrofit of Municipal Fleet Vehicles (Mostly med/small fleets with funding opportunities ahead of ARB fleet regulations)**



Upcoming AB 923 Funding Program

Clean Off-Road Agricultural Equipment Program

- **Program to be consistent with Carl Moyer Guidelines (meet cost effectiveness levels)**

- **Timeframe: Summer/Fall 2014**



Incentive Programs

Thank You!

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District**

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