

#### Bay Area Air Quality Management District Mobile Source Committee

January 23, 2014

# CMP projects with proposed grant awards over \$100,000

Damian Breen
Deputy Air Pollution Control Officer



### **Overview**

- Background
- Proposed Projects
- Recommendations



#### **CMP & MSIF**

- Carl Moyer Program (CMP)
  - > Created in 1998 to reduce emissions from heavy-duty engines
  - > Voluntary program that funds surplus emission reductions
- Mobile Source Incentive Fund (MSIF)
  - ➤ AB 923 allowed for additional \$2 motor vehicle registration fee surcharge (12/04)
  - > CMP projects eligible for MSIF funding
- In 2013, AB 8 reauthorized CMP & MSIF funding to 2024



#### CMP Year 15

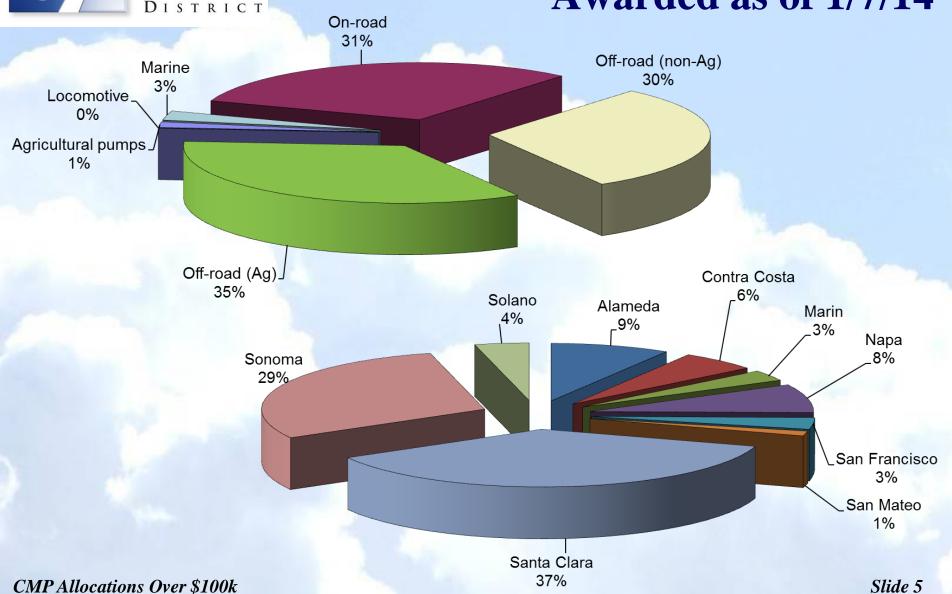
- On 2/4/13 District Board of Directors:
  - ➤ Approved participation in CMP Year 15
  - ➤ Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000

#### CMP Project Recommendations over \$100k

- > 5 Projects to reduce emissions from: 20 off-road tractors, 2 off-road loaders, and 3 airport baggage tows
- > \$1,286,674 in total awards
- Emission reductions: Over 5.5 TPY of criteria pollutants

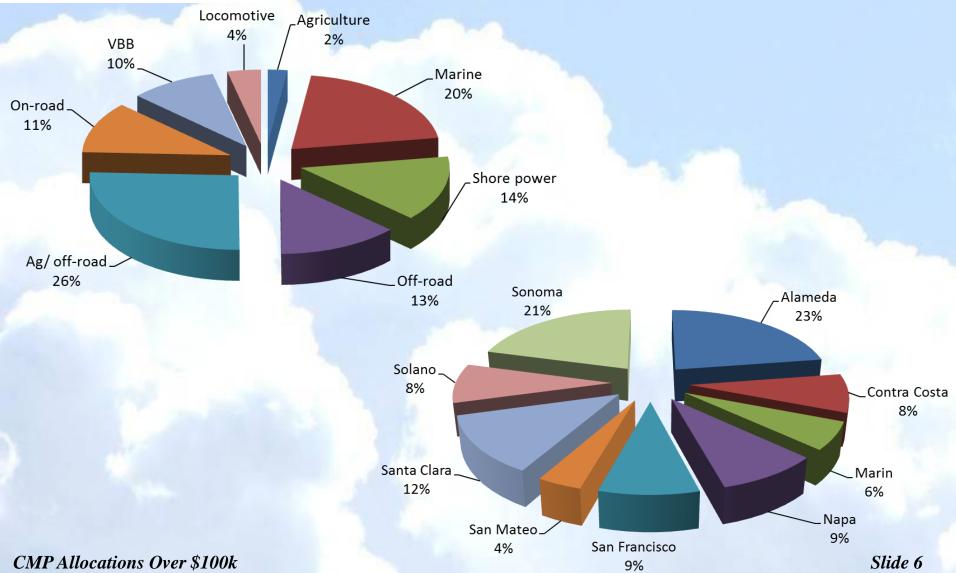


## CMP/ MSIF and VIP Funds Awarded as of 1/7/14





## CMP/ MSIF and VIP Funds Awarded CMP Years 11-15





#### Recommendations

#### Request the Committee recommend the Board of Directors:

- 1. Approve Carl Moyer Program projects with proposed grant awards over \$100,000.
- 2. Authorize the Executive Officer/APCO to enter into agreements for the recommended Carl Moyer Program projects.



#### Bay Area Air Quality Management District Mobile Source Committee

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Participation in Year 16 of the Carl Moyer Program

Damian Breen
Deputy Air Pollution Control Officer



#### **Overview**

- Background
- CMP Year 16 (fiscal year 2013-2014)
- Recommendations



## **Funding Sources**

#### Carl Moyer Program (CMP)

- > Created in 1998 to reduce emissions from heavy-duty engines
- > Voluntary program that funds surplus emission reductions

#### Mobile Source Incentive Fund (MSIF)

- ➤ AB 923 allowed \$2 motor vehicle registration fee surcharge (12/04)
- > CMP projects eligible for MSIF funding

In 2013, AB 8 reauthorized CMP & MSIF funding to 2024



## **Year 16 Funding**

- ARB allocation
  - > \$56.5 million statewide
  - ➤ Up to \$10.1 million for the Bay Area
  - > 5% allocation for administrative costs
  - ➤ Up to \$1.5 million in required match
- Proposed \$5 million MSIF allocation for matching funds and additional CMP projects



## **Year 16 Implementation**

- 2011 ARB CMP Guidelines
- Impacted Communities
  - ➤ Priority given to projects reducing emissions in highly impacted communities
  - ➤ At least 50% of funds for projects in most impacted areas
- Projects over \$100k brought to the Board for approval
- Schedule
  - > First-come, first served process
  - ➤ Call for project applications summer 2014
  - Funds must be obligated by June 2015, and invoices paid by June 2016



#### Recommendations

#### Request the Committee recommend the Board of Directors:

- 1. Adopt a resolution authorizing the Executive Officer/APCO to execute all necessary agreements with the California Air Resources Board (ARB) relating to the Air District's receipt of Carl Moyer Program funds for fiscal year 2013-2014 (Program Year 16).
- 2. Allocate \$5 million in Mobile Source Incentive Funding to provide the required match funding and additional monies for projects eligible for funding under the Carl Moyer Program.



#### Bay Area Air Quality Management District Mobile Source Committee

January 23, 2014

Overview of Transportation Fund for Clean Air (TFCA) Policies

Damian Breen
Deputy Air Pollution Control Officer



#### **Overview**

- Background
- Historical TFCA Distributions & FYE2014 C/E
- TFCA Policy Overview and Key Policy Drivers
- Summary of Historical TFCA Policies and Methodology for Calculating C/E
- Next Steps



## **Background**

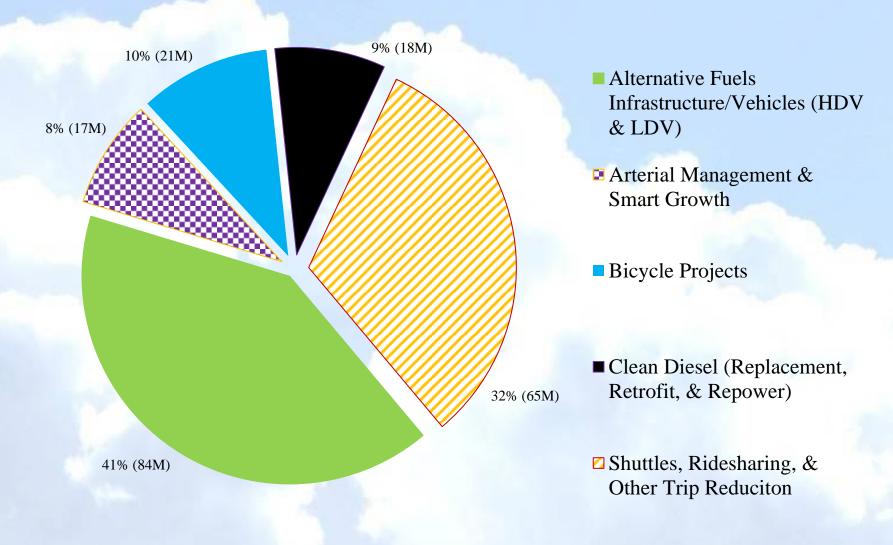
#### **Transportation Fund for Clean Air (TFCA)**

Since 1992, funding from \$4 surcharge on Bay Area motor vehicles for projects that reduce on-road vehicle emissions

- 60% of TFCA funds awarded directly by the Air District:
  - Air District led projects and programs (Spare the Air, Enhanced Mobile Source Enforcement & Commuter Benefits Project)
  - TFCA Regional Fund Program (competitive program)
- Remaining 40% is distributed to the 9-Bay Area Congestion Management Agencies (County Program Manager Fund)
- Board adopts policies and evaluation criteria annually
- TFCA is the sole funding source that can be used to fund **trip** reduction and light-duty alternative fuel vehicle-based projects

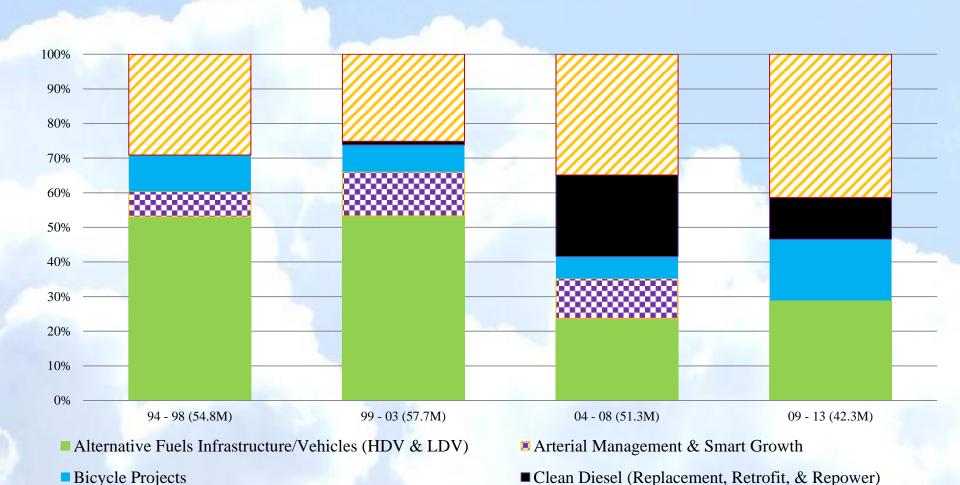


#### **Allocation of TFCA Funding (60%)** 1992 – 2013 (\$206M)





#### Allocation of TFCA Funding (% of Total) 1994 – 2013



☑ Shuttles, Ridesharing, & Other Trip Reduciton



## **TFCA Policy Overview**

- Policies govern the following:
  - Applicant eligibility
  - Project eligibility parameters
  - Cost Effectiveness (C/E) in reducing emissions
- TFCA Policies have remained very similar over time
- Over the past 20 years, TFCA program has evolved; refinements reflect improvements resulting from:
  - Lessons learned from 20 years of experience
  - Input received from public and other stakeholders
  - Effort to align TFCA methodology for evaluating costeffectiveness with changes overtime to other District grant programs



#### **TFCA Policies**

#### Project Useful Life (PUL) & Cost Effectiveness (C/E)

#### C/E thresholds have varied (\$/ton):

- Baseline TFCA C/E range = \$50,000 \$120,000
- Exceptions for C/E Baseline:
  - ➤ Alt. Fuel Vehicle Projects (FYE 1999 Present) = Max. \$90,000 \$500,000
  - ➤ Demonstration Projects (2009 Present) = Max. \$500,000

#### PUL limits have varied (1998 – Present):

- Light-Duty Vehicle projects: 3 7 years
- Heavy-Duty Vehicle projects: 5 20 + years
- Demonstration projects: 3 20 + years
- Bicycle projects: 10 20 years



## **Key Policy Drivers**

- New Air Resources Board (ARB) Diesel engine regulations
- Change in state and federal engine emissions standards
- Changes in methodology for calculating C/E from Carl Moyer and other ARB programs
- Identification of diesel PM as a Toxic Air Contaminant (TAC)
- Community Air Risk Evaluation (CARE) program and Board's direction to prioritize funding for projects in highly impacted Bay Area communities



## **Summary of C/E and PUL Limits FYE 2014 Projects and Programs**

Air District Sponsored Projects and Programs	MAX. C/E (per ton)	PUL (years)
Regional Bicycle Sharing Pilot	\$500,000	5
Rebates for Purchase of Plug-in Electric Vehicles (PEV) (for Public Agencies)	\$450,000	3
Rebates for Purchase of PEVs (for Bay Area Residents and Private Fleets)	\$250,000	2
PEV Infrastructure	\$250,000	2
Shuttle & Ridesharing (Pilot in CARE Area)	\$500,000	1
Shuttle & Ridesharing (Pilot)	\$125,000	1
Shuttle & Ridesharing (Ongoing)	\$90,000	1
Bike Racks and Lockers	\$90,000	10



## Historical Average PUL 2001 –2013

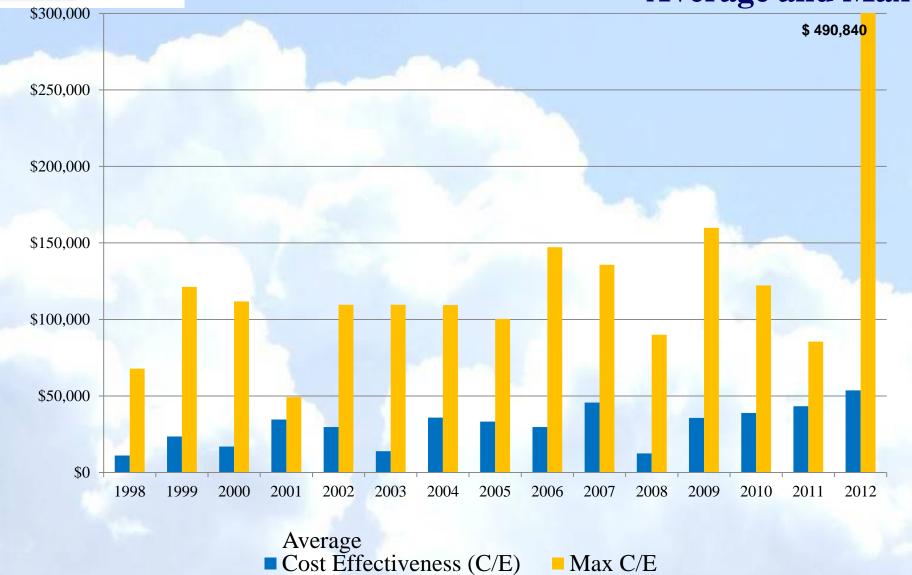
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Overview of Transportation Fund for Clean Air (TFCA) Policies



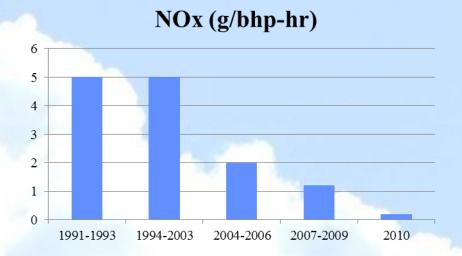
# **Historical Cost Effectiveness Average and Max**

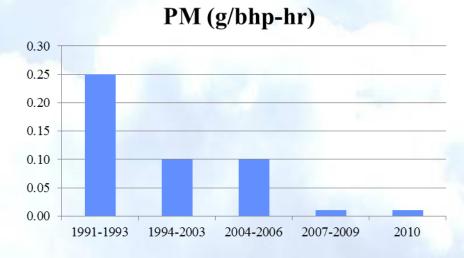




# **Emissions Standards for Heavy- Duty Diesel Vehicles (1991 – Present)**

- Engine standards have become progressively more stringent
- Standard is used to determine baseline for calculating C/E
- The more stringent the standard (baseline), the fewer emissions that are "reduced"
- More stringent standards cause
   C/E to increases if PUL/usage
   and \$ awarded remain constant







## **EXAMPLE:** Effect of Changing Emissions Standards on C/E

(For natural gas truck and shuttle projects funded in 2003)





## **Summary and Next Steps**

- Standards have become progressively more stringent; cannot provide same funding levels at the same C/E.
- To maintain same max. C/E levels: Options: 1) reduce project funding amounts, 2) restrict funding to high usage scenarios.
- New regulations further limit opportunities to provide funding to all of the same project categories as were previously funded.
- Next Steps:
  - Continue to explore opportunities to streamline and improve TFCA program and to ensure Policies prioritize funding for projects that maximize public health benefits.
  - Return to committee in May with recommendations for FYE 2015 policies and funding allocation.