



AGENDA: 4

Bay Area Air Quality Management District
Mobile Source Committee

Projects with proposed awards over \$100,000

March 23, 2017

Damian Breen
Deputy Air Pollution Control Officer



Overview

- Background
- Proposed projects with awards over \$100,000
- Recommendations



- **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 and Lower Emission School Bus Program (LESBP) projects eligible for MSIF funding

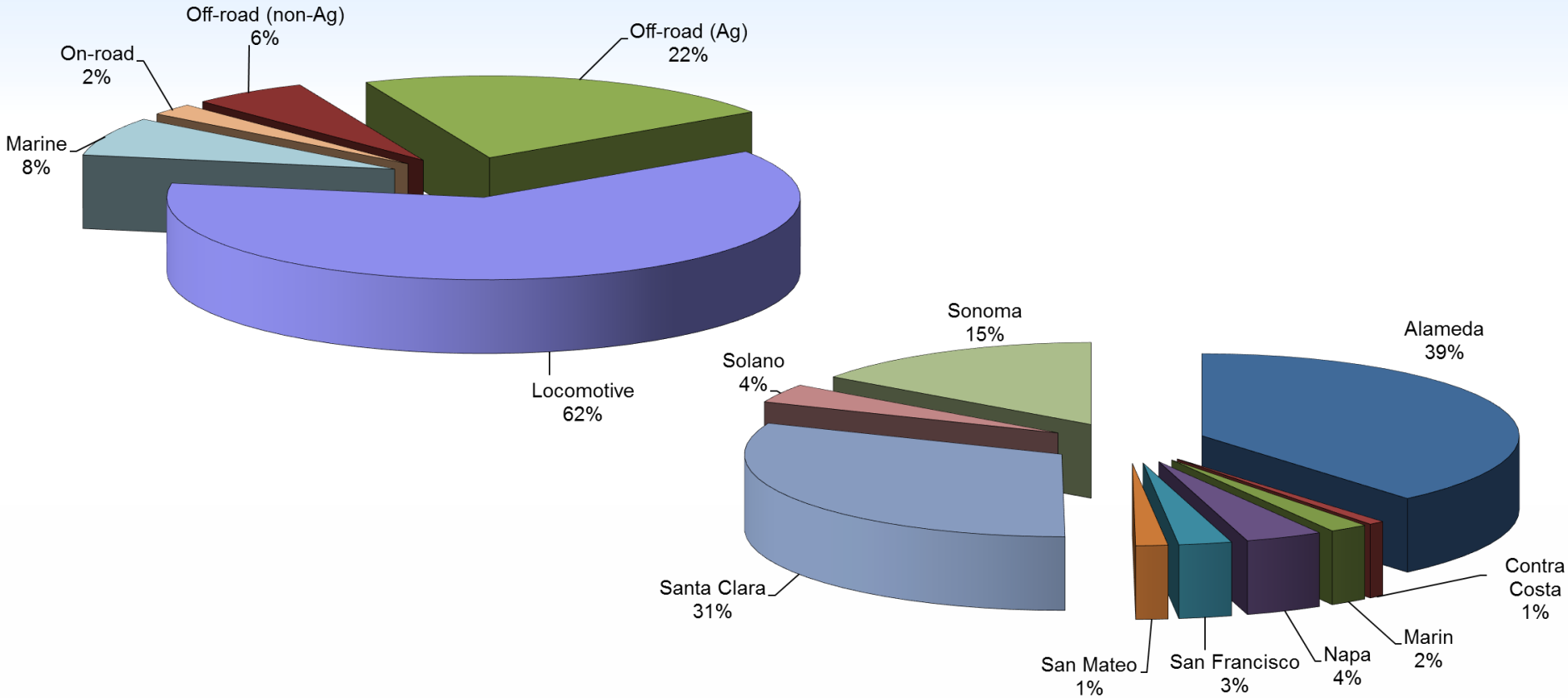


- **On March 16, 2016 Air District Board of Directors:**
 - Approved participation in CMP Year 18
 - Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000
- **CMP Project Recommendations over \$100k:**
 - 1 Project to reduce emissions from 1 off-road diesel loader
 - \$154,505 in total awards
 - Emission reductions: Over 0.72 TPY of criteria pollutants



CMP and MSIF Funds

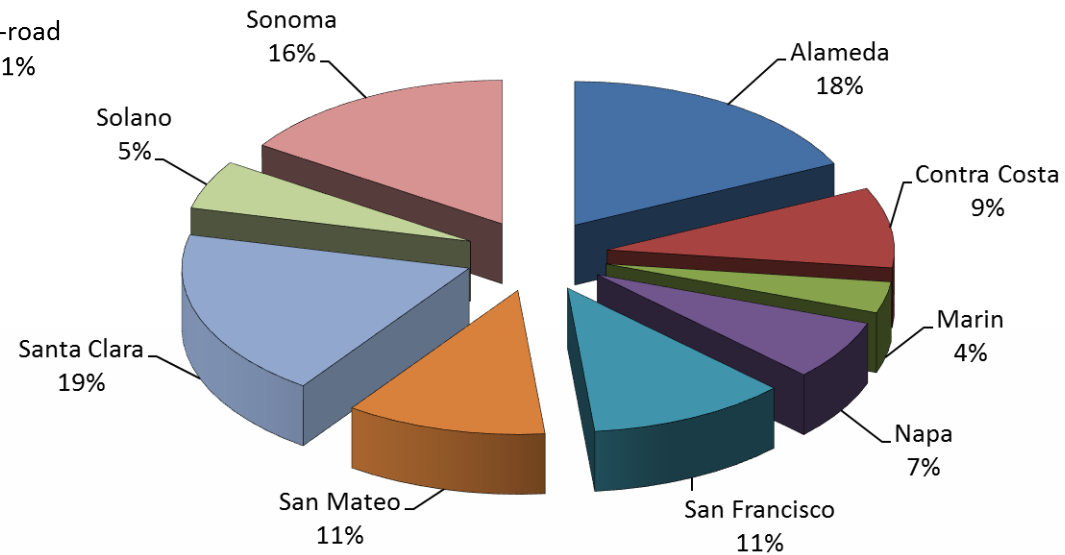
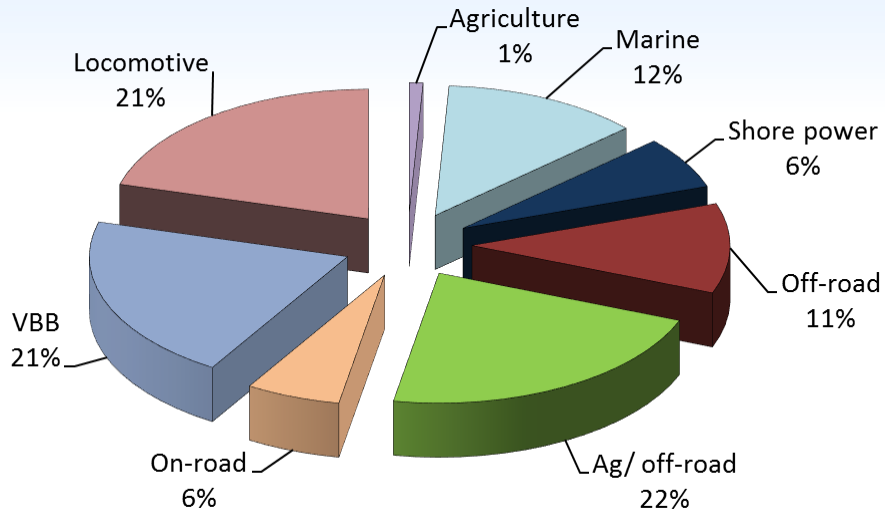
Awarded as of 3/3/17





CMP and MSIF Funds

Awarded since 2009





Recommendations

Recommend the Board of Directors:

- Approve Carl Moyer Program (CMP) projects with proposed grant awards over \$100,000 as shown in Attachment 1; and
- Authorize the Executive Officer/APCO to enter into all necessary agreements with applicants and partners for the recommended projects.



AGENDA: 5

Bay Area Air Quality Management District
Mobile Source Committee

Lower Emission School Bus Program (LESBP) Update and Funding Request

March 23, 2017

Damian Breen
Deputy Air Pollution Control Officer



Overview

- Background
- Summary of past Air District funding for school bus projects
- Program updates and funding request
- Recommendations



- **Lower Emission School Bus Program (LESBP)**
 - Reduces school children's exposure to diesel emissions by upgrading Bay Area older school buses
 - Voluntary program
- **Mobile Source Incentive Fund (MSIF)**
 - AB 923 allows additional \$2 motor vehicle registration fee surcharge (12/2004)
 - Carl Moyer Program (CMP) and LESBP projects are eligible for funding
- **Recent MSIF school bus funding allocations**
 - June 2014 - \$6.3 million
 - October 2016 - \$1.5 million for CNG tank replacements

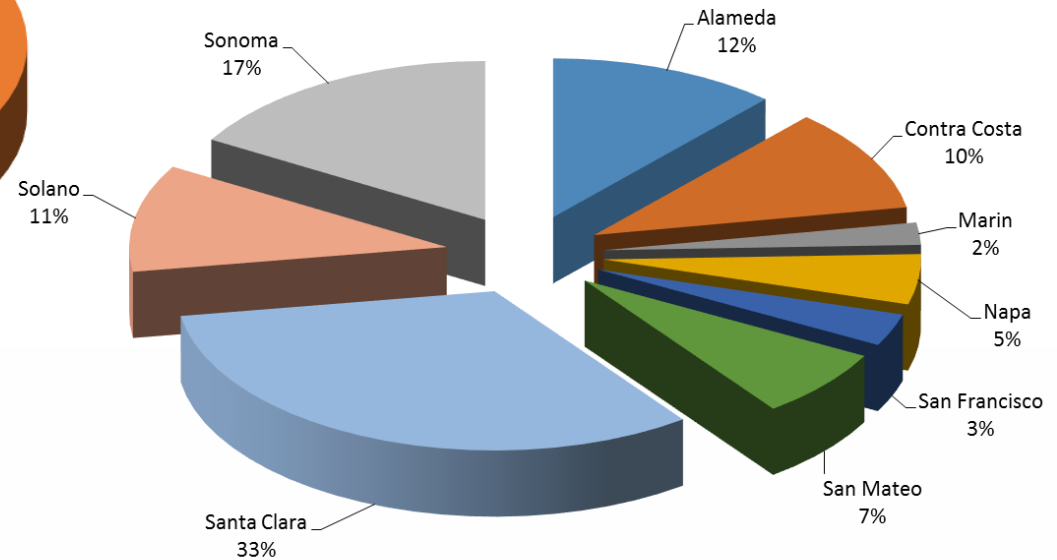
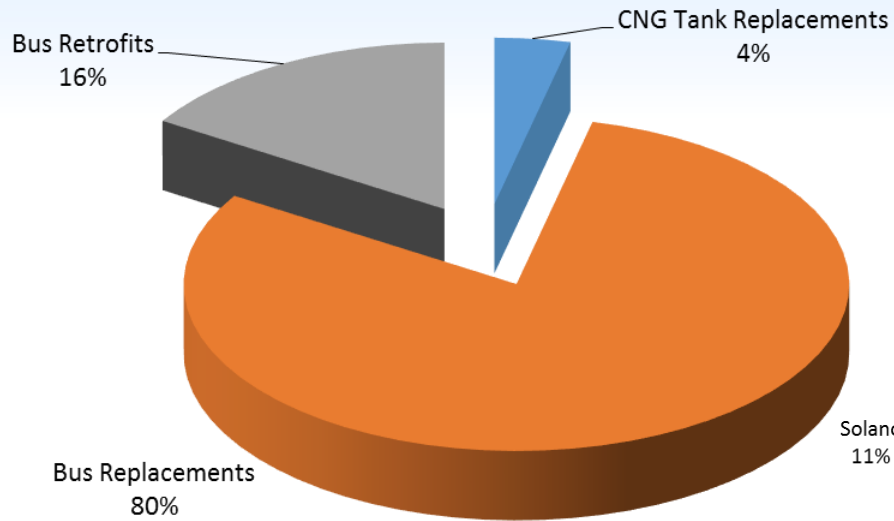


Air District funded LESBP projects

- The primary eligible school bus project types are:
 - School bus replacements
 - Retrofit filters, and
 - CNG tank replacements
- Since 2000, the Air District has provided more than \$75 million to upgrade over 1,400 buses
 - \$60.2 M - Replaced 446 school buses (including 77 CNG buses)
 - \$12.1 M - Retrofitted 826 school buses
 - \$2.7 M - Replaced CNG tanks on 139 school buses

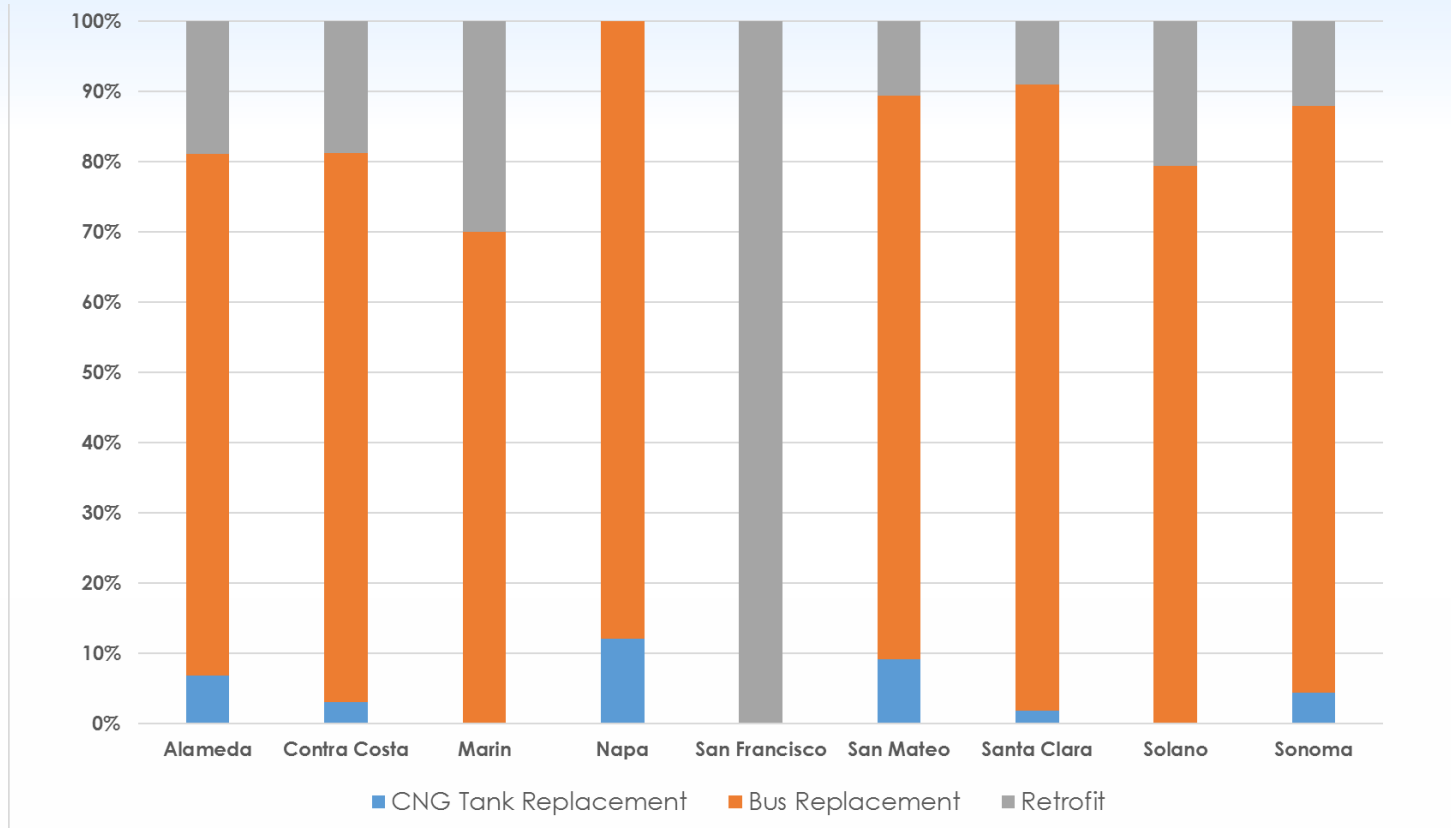


LESBP funding since 2000





LESBP funding since 2000 by county & project type





LESBP funding request

- **Bay Area school bus population**
 - Approximately 2,220 diesel school buses
- **Guideline updates**
 - CARB revised the LESBP guidelines
 - Opportunities for repowers/conversions and alternative fueled buses
- **Current funding**
 - Funding available for CNG tank replacement projects
 - Funding for bus replacements & retrofits ran out in 2016
- **Funding request**
 - \$5 million in MSIF funding for school bus projects



Recommendations

Recommend the Board of Directors:

- Allocate \$5,000,000 in Mobile Source Incentive Funds (MSIF) for Lower Emission School Bus Program projects; and
- Authorize the Executive Officer/APCO to enter into agreements with applicants for LESBP projects.



AGENDA: 6

Bay Area Air Quality Management District
Mobile Source Committee

Fiscal Year Ending (FYE) 2018 Transportation Fund for Clean Air (TFCA) Funding Allocations

March 23, 2017

Damian Breen
Deputy Air Pollution Control Officer



- Fiscal Year Ending (FYE) 2018 Transportation Fund for Clean Air (TFCA) expenditure plan and investment of new monies
- Summary of proposed FYE 2018 Regional Fund and Air District programs and projects
- Proposed cost-effectiveness limits for Air District sponsored programs
- Recommendations



Proposed FYE 2018 TFCA Expenditure Plan and Investment of New Monies (in Millions)

Program Categories	(A) New TFCA Monies	(B) Carryover*	(C) Total Funds Available in FYE 2018
Trip Reduction	\$4.00	\$2.00	\$6.00
Bicycle Facilities	\$0.00	\$2.00	\$2.00
Clean Air Vehicles	\$5.22	\$9.44	\$14.66
Spare the Air	\$1.50	\$0.59	\$2.09
Enhanced Mobile Source & Commuter Benefits Enforcement	\$1.50	\$0.78	\$2.28
Vehicle Buy Back	\$0.15	\$0.50	\$0.65
Admin	\$1.56	\$0.00	\$1.56
Total Available Funding:	\$13.93	\$15.31	\$29.24

*Carryover is an estimate of the remaining TFCA funds from prior years and may be lower than what is indicated in the table since that funding is currently available to projects in the FYE 2017 cycle.



Trip Reduction (for public agencies) \$4 M in new TFCA monies/\$6 M total

- Existing shuttles and feeder bus services
 - Last-mile service to connect commuters from mass transit to employment and commercial locations
- Existing rideshare services
 - Carpool, vanpool, and rideshare services to riders from at least five Bay Area counties, with no one county accounting for more than 80% of all riders
- Pilot trip reduction
 - New option to provide funding to other innovative cost-effective trip-reduction projects
 - Funding limited to projects in Highly Impacted Communities or Episodic CARE Areas, or in Priority Development Areas (PDAs)





Bicycle Facilities (for public agencies)

No new TFCA monies/\$2 M total

- Bikeways

- Air District TFCA funds have helped to construct approx. 200 miles of Bay Area bikeways
- Funding available for new:
 - Class-1 bicycle paths
 - Class-2 bicycle lanes
 - Class-3 bicycle routes
 - Class-4 cycle tracks or separated bikeways



- Bicycle racks & electronic bicycle lockers

- Air District TFCA funds have helped to install >13,000 new bicycle parking spots
- Funding available to expand public access to secure parking equipment (e.g., racks and electronic lockers)





Clean Air Vehicles

\$5.22 M in new TFCA monies/\$14.66 M total

- Electric vehicle charging stations
 - Open to all entities
 - Workplaces, multifamily unit dwellings, key destinations
- Grants for fleets
 - Open to all entities
 - Light-duty fleets and heavy-duty vehicles and buses
- Rebates for public agencies
 - For purchase/lease of new light-duty PEVs, motorcycles
 - Lower usage requirement for public vehicles





Enhanced Mobile Source/Commuter Benefits Enforcement

\$1.5 M in new TFCAs monies/\$2.28 M total

- Enhanced patrols for smoking vehicles
- Offset the cost of drayage truck regulation enforcement at the Port of Oakland
- Supported enforcement activities associated with the new Commuter Benefits Program





Other Air District-led Programs

- Spare the Air
 - \$1.5 M in new TFCA monies/\$2.09 M total
 - Air District's flagship public outreach tool for summer ozone season
- Vehicle Buy Back
 - \$0.15 M in new TFCA monies/\$0.65 M total
 - Voluntary grant program that pays \$1,000 for model years 1994 or older vehicles
 - TFCA funds are used for outreach costs and to pilot new motorcycle and truck scrap program
 - Approx. \$7 million in Moyer and MSIF funds annually used for the vehicle retirement costs





Proposed Cost-Effectiveness Limits for Air District Sponsored Programs

Program Categories	Max. C/E	Project Useful Life	Notes
	(per ton of emissions reduced)	(in Years)	
Bicycle Racks (BRVP)	\$250,000	3	No Change
PEVs for Public Agencies	\$450,000	3	No Change
PEV Outreach	\$250,000	3	No Change
PEV Charging Stations	\$250,000	4	No Change
	\$500,000*		No Change
Spare the Air	\$90,000	1	No Change
Enhanced Mobile Source & Commuter Benefits Enforcement	\$90,000	1	No Change
Vehicle Buy Back	\$90,000	3	Changed PUL from 1 to 3 years, to account for changes in the program to accept trucks and motorcycles

*This higher C/E limit is for projects that incorporate renewable power (i.e., solar or wind).



Recommendations

- Allocate \$13.93 million in new Transportation Fund for Clean Air (TFCA) monies to the programs listed in Table 1;
- Authorize the proposed cost-effectiveness limits for the Air District sponsored programs listed in Table 2; and
- Authorize the Executive Officer/APCO to enter into funding agreements and contracts up to \$100,000 for projects and programs listed in Table 1.