

## Bay Area Air Quality Management District Mobile Source Committee

September 24, 2015

# Projects and Contracts with Proposed Grant Awards over \$100,000

Damian Breen
Deputy Air Pollution Control Officer



## **Overview**

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



# CMP, MSIF, & TFCA

#### 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 LESBP projects eligible for MSIF funding

### Transportation Fund for Clean Air (TFCA)

- Funding provided by a \$4 surcharge on motor vehicles
- Statutory authority for the TFCA and requirements of the program are set forth in California Health and Safety Code Sections 44241 and 44242



## CMP Year 17

#### On 2/18/15 District Board of Directors:

- > Approved participation in CMP Year 17
- ➤ Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000

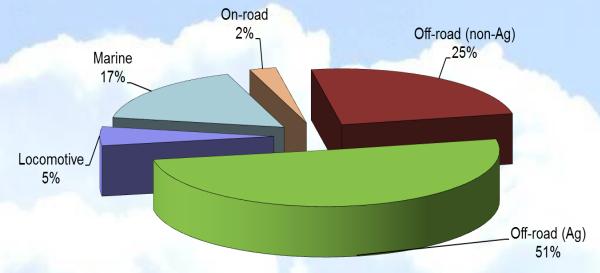
#### CMP Project Recommendations over \$100k:

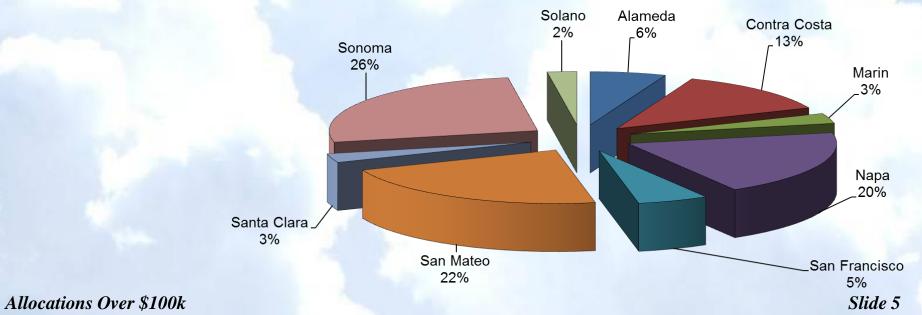
- > 7 Projects to reduce emissions from 12 tractors, 1 loader, and 9 marine engines
- > \$1,160,520 in total awards
- Emission reductions: Over 9.5 TPY of criteria pollutants



# **CMP and MSIF Funds**

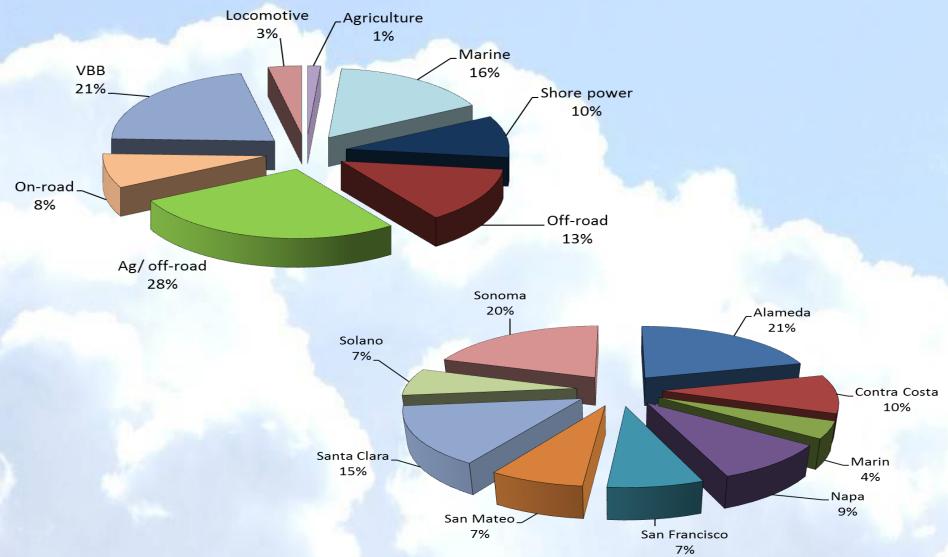
Awarded as of 9/7/15







# CMP and MSIF Funds Awarded since 2009





## **CMP Outreach Efforts**

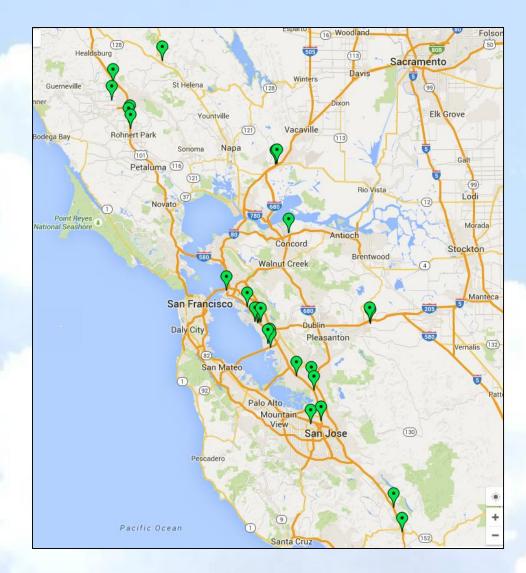
- Postcard mailing to over 5,700 stakeholders
- Email announcements/updates
- Industry/groups: Airports, farm bureaus, trucking groups, contractors' associations, chambers of commerce, public agencies, vintner's associations, etc.
- Press releases to highlight projects and funding opportunities
- Calls to potential applicants, industry groups
- Information at Air District public events
- Presentations at ARB regulation training sessions
- Program factsheets & flyers
- Website postings/updates
- Quarterly Air District newsletter updates
- Vendor coordinated outreach

Allocations Over \$100k



# **Off-road Equipment Vendors**

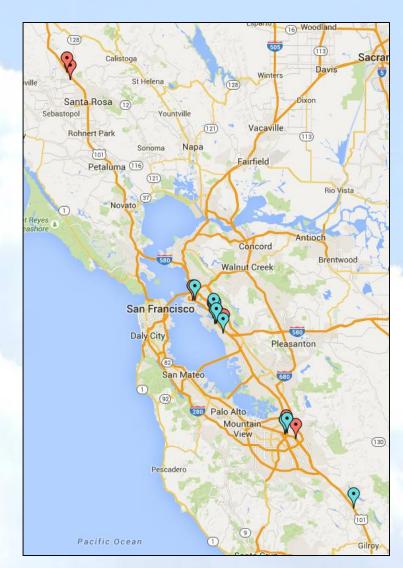
- 30 contracted off-road equipment vendors
- Vendors provide equipment for agriculture, construction, and industrial applications
- Vendors are trained and assist with outreach, application assistance and program implementation
- Any Bay Area off-road equipment vendor can participate
- Vendor list: www.baaqmd.gov/ERP





## **Truck/Retrofit Vendors**

- 26 contracted truck/retrofit vendors
- Vendors are trained and assist with outreach, application assistance and program implementation
- Any Bay Area truck/retrofit vendor can participate
- Vendor list: www.baaqmd.gov/VIP





# **Air District Surveys**

#### Truck owner survey

- ➤ *Purpose*: to collect program participant feedback on Air District grant program processes and outreach methods.
- Conducted in March-April 2015
- ≥ 219 respondents

#### Off-road vendor survey

- ➤ *Purpose*: to collect feedback from participating vendors on Air District grant program processes and outreach methods.
- Conducted in July-August 2015
- ≥ 38 respondents



#### Approvals by District Board of Directors:

- ➤ Allocated \$24.47 million in TFCA funding for eligible Air District-led and Regional Fund project categories, 5/6/15
- Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000, 5/6/15
- Adopted policies and evaluation criteria for the FYE 2016 TFCA funded projects on 5/6/15 and 7/29/15

#### TFCA Project Recommendations over \$100k:

- ➤ One Project to install 39 electric vehicle charging stations at 37 multi-family dwelling property locations
- > Proposed award of \$234,000
- Emission reductions: Over 0.07 TPY of criteria pollutants

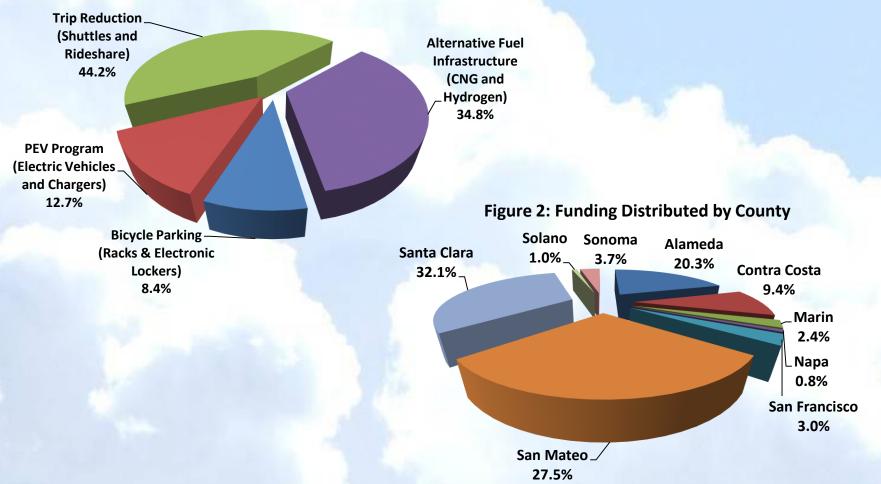


#### **TFCA Funds**

## by Project Category and by County

(Eligible projects evaluated between 7/1/14 and 9/7/15)

Figure 1: Funding Distributed by Project Category





## **TFCA Outreach Efforts**

- Email announcements and website postings & updates
- Industry/groups: transit agencies, congestion management agencies, EV & charging station manufactures & providers, bicycle equipment vendors, cities, counties, special districts, regional & state agencies, advocacy groups
- Webinars: informational and program-specific
- Presentations at CEC, CPUC, Clean Cities, EV Coordinating Council,
   Regional & County working groups
- Public events, meetings and conferences
- Program factsheets & flyers
- Quarterly Air District newsletter updates
- Vendor coordinated outreach

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#### Recommendations

#### Recommend the Board of Directors:

- 1. Approve CMP and TFCA projects with proposed grant awards over \$100,000 as shown in Attachment 1; and
- 2. Authorize the Executive Officer/APCO to enter into agreements for the recommended projects.



## Bay Area Air Quality Management District Mobile Source Committee

September 24, 2015

#### Participation in Year 5 of the California Goods Movement Bond Program

Damian Breen
Deputy Air Pollution Control Officer



# **Overview**

- Background
- Year 5 I-Bond Program
- Recommendations

I-Bond Year 5 Slide 2



### **Goods Movement Program (I-Bond)**

- > Approved in November 2006
- > \$1 billion to quickly reduce emissions and health risks from freight movement
- ➤ Bay Area trade corridor allocation \$140 million
- The Air District has administered GMP funding for the Bay Area trade corridor for the first four years of the program

Slide 3

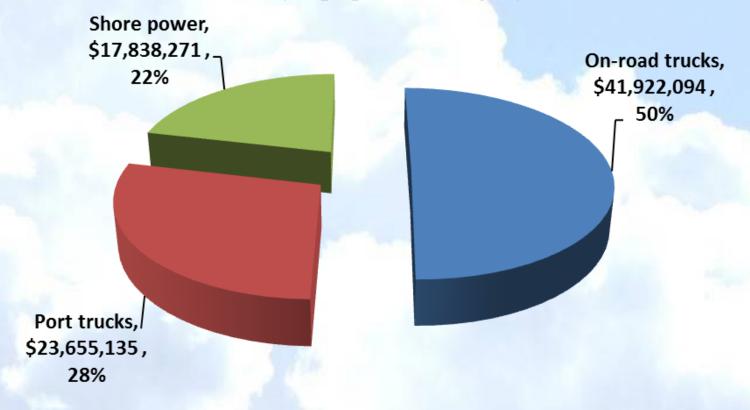


- Over \$80 million expended during the first four I-Bond funding cycles for projects to:
  - Retrofit 1,400 port trucks,
  - Replace over 560 port trucks,
  - Retrofit 65 on-road trucks,
  - > Replace 850 on-road trucks (in progress), and
  - Electrify 12 berths at the Port of Oakland (*shore power*)
- Collectively these projects reduced over 238 tons of PM and 9,347 tons of NOx

Slide 4



#### Prior Air District I-Bond expenditures by equipment category



I-Bond Year 5



## **I-Bond Year 5**

#### **Eligible Equipment Categories**

- Heavy-duty truck projects
- Locomotives
- Transportation refrigeration units
- Shore power & cargo-handling equipment
- Commercial harbor craft

#### **ARB Priorities for Year 5**

- 1. Zero and near zero-emission truck technologies
- 2. Small truck fleet opportunities
- 3. Zero-emission equipment
- 4. Tier 4 locomotives

I-Bond Year 5 Slide 6



# **I-Bond Year 5: Application**

#### On-road trucks

- > \$24 million requested in project & admin funds
- > ~507 truck projects
- Emission reductions: 3,577 tons of NOx
- Priority for zero and near zero-emission trucks

#### Locomotives

- > \$15 million requested in project & admin funds
- > ~ 7 locomotive projects
- Emission reductions: 64 tons of PM and 1,062 tons of NOx
- Funding prioritizes Tier 4 locomotive technology







# **I-Bond Year 5: Application**

#### Transportation refrigeration units (TRU)

- > \$3 million requested in project & admin funds
- > ~66 TRUs
- Emission reductions: 3 tons of PM and 106 tons of NOx
- > Zero-emission TRUs



- > \$5 million requested in project & admin funds
- > ~ 4 pieces of cargo-handling equipment
- Emission reductions: 3 tons of PM and 296 tons of NOx
- Note: Funding amounts may be shifted based on interest/demand







## Year 5 Schedule

- August 4, 2015: Application submitted to ARB
- September 14, 2015: Truck solicitation opened (with existing funds from older grants)
- September 24, 2015: ARB Board considers district allocations for new funds
- October/November 2015: ARB sends out Grant Agreements
- Late 2015/early 2016: Solicitation periods open for other equipment categories

I-Bond Year 5 Slide 9



#### Recommendations

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

- 1. Adopt a resolution in support of the Air District's application for Year 5 Goods Movement Bond funding;
- 2. Authorize the Executive Officer/ APCO to enter into agreements with the ARB related to the acceptance of I-Bond funding; and
- 3. Authorize the Executive Officer/ APCO to appropriate I-Bond funding and to enter into agreements with eligible applicants for projects ranked and approved by the ARB.

I-Bond Year 5 Slide 10



## Bay Area Air Quality Management District Mobile Source Committee

September 24, 2015

# Allocation to support Greenhouse Gas Emission Reduction Fund Projects

Damian Breen
Deputy Air Pollution Control Officer



## **Overview**

- Background
- Project descriptions
- Air District commitment
- Recommendations



- ARB Low Carbon Transportation Greenhouse Gas Emission Reduction Fund (GGRF)
  - > Established in 2012
  - ➤ Cap-and-trade funds for long-term, transformative efforts to improve public health and develop a clean energy economy
- SB 535 directs GGRF funds to CalEnviroScreen disadvantaged communities
  - > at least 25% of funds to projects that benefit these areas
  - > at least 10% of funds to projects located in these areas
- ARB FY2014-15 Air Quality Improvement Program (AQIP) and GGRF Investment Plan
  - > \$23,658,500 for zero-emission drayage truck demonstration project
  - > \$23,658,500 for multi-source facility demonstration project
  - ➤ Deadline for project proposals is September 24, 2015



# Zero-Emission Drayage Truck Demonstration Project

- Local partnerships with truck operators, technology providers, Port of Oakland
- Air district partners (SCAQMD, SJVAPCD, SMMAQMD, and SDAPCD) as part of a larger technology demonstration that includes trucks at the Ports of LA/Long Beach
- SCAQMD is the lead on the joint-application
- Bay Area: Project will demonstrate zero- and near zero-emission trucks serving the Port of Oakland
  - ➤ Battery-electric trucks operating on short routes
  - ➤ Hybrid-electric trucks operating on longer regional routes to Sacramento or San Joaquin Valley

• \$23,658,500 requested from ARB for joint project



# Multi-Source Facility Demonstration Project

- Demonstration of zero or near-zero technologies at a single freight facility
- Project will demonstrate zero-emission equipment operating at the Port of Oakland
  - ➤ Battery electric trucks operating on shorter routes
  - ➤ Hydrogen fuel cell rubber-tire gantry cranes
  - Cryogenic Transportation Refrigeration Units (TRUs)
  - ➤ Battery electric yard trucks
- Local partnerships with terminal operators, technology providers,
   Port of Oakland with Air District as lead applicant



#### **Air District Commitment**

- Applications were submitted by September 24, 2015
- 25% required match for each application
  - ➤ At least 10% cash match
  - ➤ Max 15% in-kind match
- Staff proposes a \$4.65 million TFCA allocation
  - > \$3.15 million remaining from 2014 truck allocation (\$5 million)
  - > \$1.50 million from FYE 2016 TFCA EV Program allocation
  - Covers the cash match for both applications, but may be used to expand one project if only one proposal is successful
  - ➤ If successful, TFCA funds could leverage more than \$40 million
  - ➤ No funds will be used if both projects are unsuccessful



#### Recommendations

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

- 1. Adopt a resolution in support of the Air District's application for California Air Resources Board Low Carbon Transportation Greenhouse Gas Emission Reduction Funds (GGRF);
- 2. Allocate up to \$4.65 million in TFCA funding as match for GGRF projects using a project cost-effectiveness of \$500,000 per ton of emissions reduced;
- 3. Authorize the Executive Officer/APCO to enter into agreements with the ARB and partners related to the acceptance of GGRF funds; and
- 4. Authorize the Executive Officer/APCO to appropriate GGRF funds and to enter into agreements with project participants.