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Bay Area Air Quality Management District  
Mobile Source Committee

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

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January 24, 2019

Madeleine Storelli  
Staff Specialist



- ❖ Background
- ❖ Proposed projects with awards over \$100,000
- ❖ Overview of Fiscal Year Ending (FYE) 2019 funds:
  - Awards by project type
  - Awards by county
  - Available
- ❖ 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)

- Assembly Bill (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



# Community Health Protection Grant Program (CHP)

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- ❖ Created by AB 134 appropriation of \$250 million from the Greenhouse Gas Reduction Fund (GGRF) to reduce mobile source emissions including criteria pollutants, toxic air contaminants, and greenhouse gases in AB 617 communities
- ❖ Bay Area Air Quality Management District (Air District) allocated \$50 million of these funds for emission reduction projects under the CMP, and optionally under the Proposition 1B Goods Movement Emission Reduction Program



## CMP/MSIF, & CHP

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### ❖ On 2/21/18 Air District Board of Directors:

- Approved participation in CMP Year 20
- Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000

### ❖ On 12/20/17 Air District Board of Directors:

- Approved acceptance of \$50 million in AB 134 funding for the Community Health Protection Grant Program (CHP)



## Project Recommendations Over \$100k

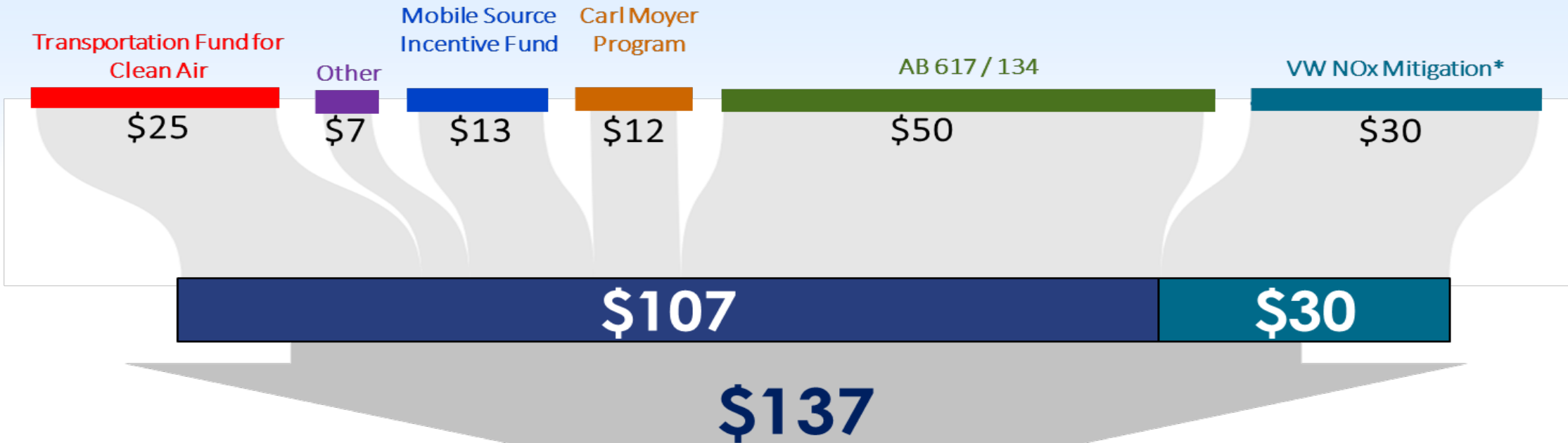
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- ❖ **\$4,946,461 in total awards for 7 projects:**
  - 1 agricultural equipment unit
  - 10 pieces of off-road equipment
  - 5 school buses
  - 1 marine engine
  - 1 locomotive
  
- ❖ **Emission reductions:**
  - Over 16.863 Tons Per Year (TPY) of criteria pollutants



# Projected Grant Revenues for FYE 2019

## \$137 (in Millions)



**Carl Moyer Category Includes Funding From:**  
CMP Year 20  
CMP Statewide Funds  
Farmers (agriculture only)  
LCFS - Low Carbon Fuel Standard

**Other Funding Sources:**  
EFMP – Enhanced Fleet Modernization Program  
RFG – Reformulated Gasoline Settlement Fund  
DERA – Diesel Emissions Reduction Act  
Zero-Emission Hydrogen Ferry Demonstration Project

\*Total Volkswagen funding is \$423M statewide, which will be dispersed over ~5 year period. Staff projects that as much as 33% of funding could go to projects located in the Bay Area.





# Funds Recommended & Awarded by Project Category

Total Since July 2018 = \$35 M

List of projects is shown in Attachments 2 and 3



Light-duty Cars & Infrastructure

On-road Trucks & Buses

School Buses

Off-road

Off-road Marine & Locomotive

Trip Reduction

\$1,009,900

\$3,210,100

\$12,636,049

Ag:  
\$2,226,749  
Non-Ag:  
\$3,909,458

\$7,438,000

\$5,279,069

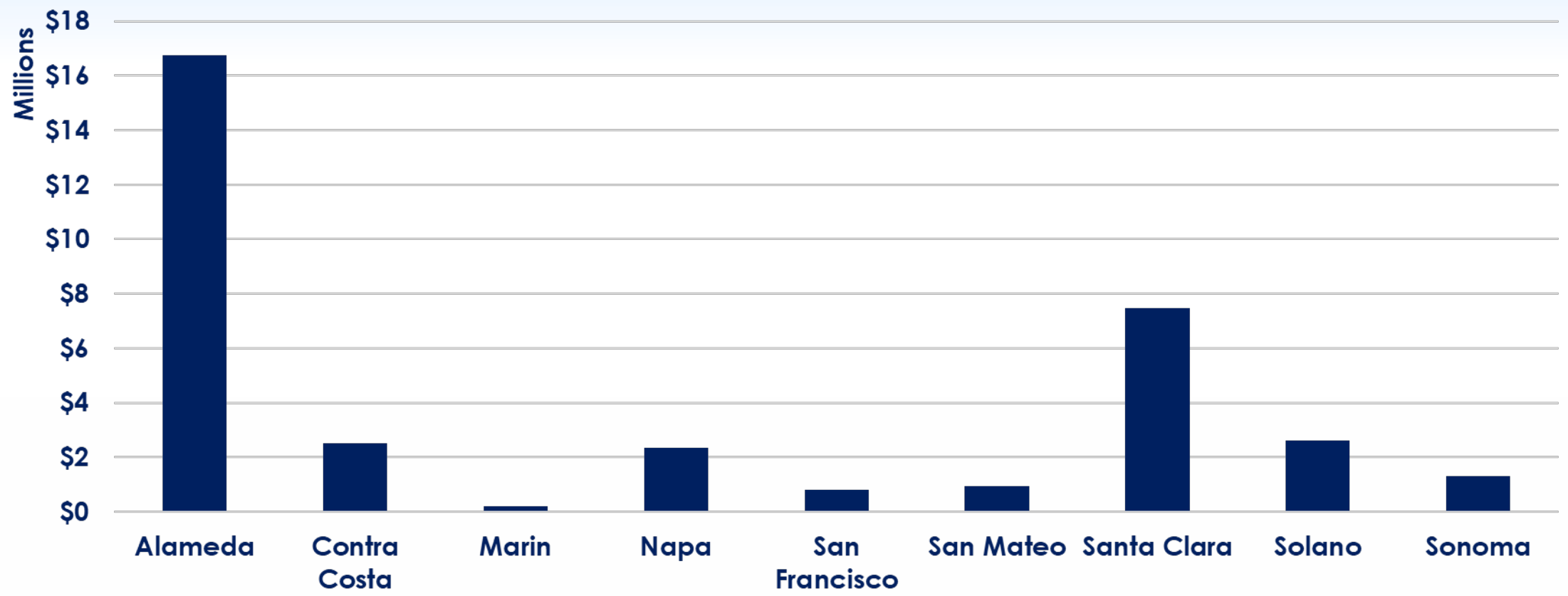




# Funds Recommended & Awarded by County Since July 2018

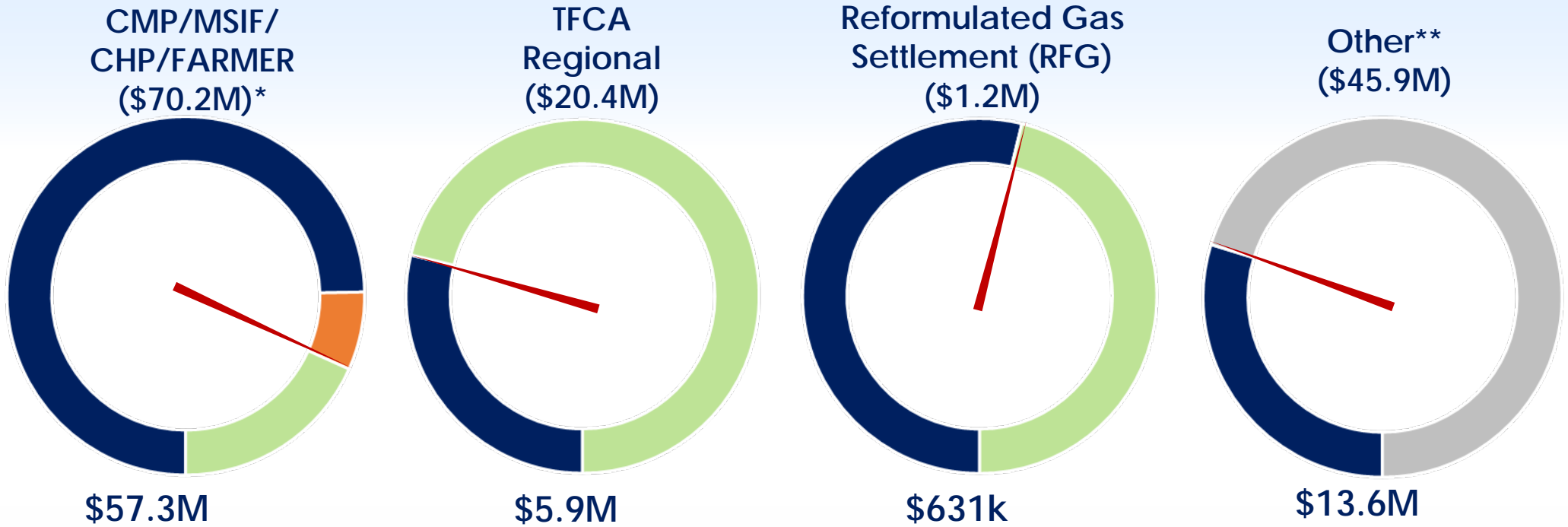
Total = \$35 M

List of projects is shown in Attachments 2 and 3





# Status of FYE 2019 Incentive Funding by Source



\*Includes funding and awards made in FYE 2018

\*\* includes passed-through funding from TFCA County Program Manager, ARB-funded Hydrogen Ferry Demo, EPA-funded DERA, and MTC for EV Outreach, and other funding that is not yet available from the Volkswagen NOx Mitigation, and ARB-funded EFMP.



# Open Solicitations & FYE 2019 Funding

Program Name, Description, and Website	Funding Available	Status	Source
<b>Carl Moyer</b> Funding to replace heavy-duty on- & off-road vehicles equipment <a href="http://www.baaqmd.gov/moyer">www.baaqmd.gov/moyer</a>	\$33M	Open until funds exhausted	CMP, MSIF, CHP, FARMER
<b>Vehicle Buy Back</b> Funding to scrap 1996 or older light duty cars <a href="http://www.baaqmd.gov/vbb">www.baaqmd.gov/vbb</a>	\$6M	Open until funds exhausted	MSIF
<b>Clean Fleets</b> Funding to purchase Light & Medium Duty ZEVs <a href="http://www.baaqmd.gov/cleanfleets">www.baaqmd.gov/cleanfleets</a>	\$5M	Open until April 30, 2019	TFCA
<b>Charge!</b> Funding to install public charging stations <a href="http://www.baaqmd.gov/charge">www.baaqmd.gov/charge</a>	\$5M	Open until June 30, 2019	TFCA
<b>Pilot Trip Reduction</b> Funding to deploy and test new trip reduction services <a href="http://www.baaqmd.gov/PTR">www.baaqmd.gov/PTR</a>	\$7M	Competitive: Applications due March 4, 2019	TFCA



# Recommendations

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## *Recommend the Board of Directors:*

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



## **AGENDA: 5**

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Bay Area Air Quality Management District  
Mobile Source Committee

# Participation in Year 21 of the Carl Moyer Program and 2019 Caltrain Funding Plan

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January 24, 2019

Anthony Fournier  
Air Quality Program Manager



# Overview

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- Background
- Carl Moyer Program Year 21 (fiscal year 2018-2019)
- 2019 Caltrain Electrification Project Funding Plan
- Recommendations



# Funding Sources

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





# CMP Year 21 Funding

- California Air Resources Board (ARB) Year 21
  - \$70.7 million statewide
    - **Up to \$12.8 million for Bay Area**
  - 6.25% allocation for administrative costs
  - Up to \$2 million in required match
- ARB 2017 CMP guidelines
- Continued focus on projects benefiting Community Air Risk Evaluation (CARE) areas
- Proposed \$3 million MSIF in match for additional CMP projects

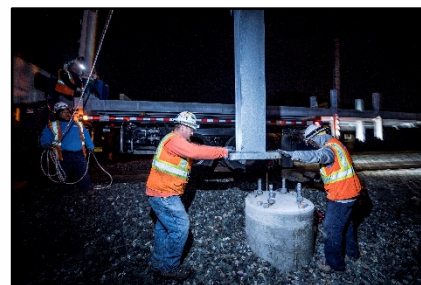


# 2019 Caltrain Funding Plan

- July 29, 2015 – Air District Board (Board):
  - Allocated \$20 million in MSIF funds for Caltrain electrification project
  - Authorized Executive Officer/APCO to enter into necessary agreements
  - Requested a multi-year funding plan be brought annually to Board for approval
    - January 7, 2016 executed project agreement
    - March 16, 2016 \$13 million initial MSIF funding plan and allocation
    - March 1, 2017 \$3 million in MSIF funds allocated
    - February 21, 2018 \$3 million in MSIF funds allocated

**Final allocation of \$1 million in MSIF funds completes funding commitment**

- Revenue service projected 2022
- Air District funds paid to date: \$6.97 million





# Recommendations

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## *Recommend the Board of Directors:*

1. Adopt a resolution authorizing the Executive Officer/APCO to execute all necessary agreements with the ARB relating to the Air District's receipt of CMP funds for fiscal year 2018-2019 (Program Year 21);
2. Allocate \$3 million in Mobile Source Incentive Funding to provide the required match funding and additional monies for projects eligible for funding under the CMP guidelines; and
3. Approve the proposed 2019 funding plan for the Caltrain Electrification project.



## AGENDA: 6

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Bay Area Air Quality Management District  
Mobile Source Committee

# Air District Grant Programs Overview

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January 24, 2019

Karen Schkolnick  
Director of Strategic Incentives Division

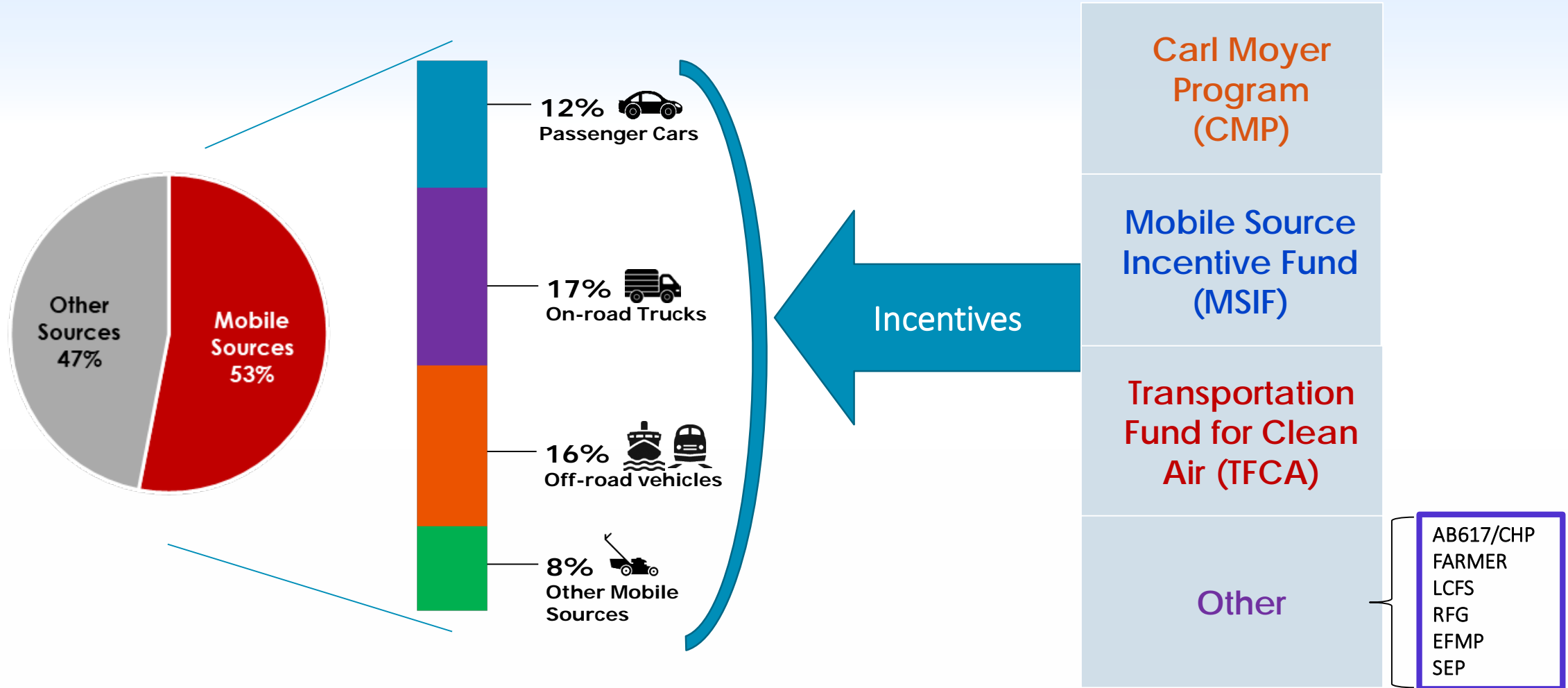


- Background
- 2018 Funding Awards & Results
  - By project category
  - Emissions reduced
  - By county
  - Diesel Free by '33
- Historical Trends
- 2019 Grant Revenue Projection & Priorities



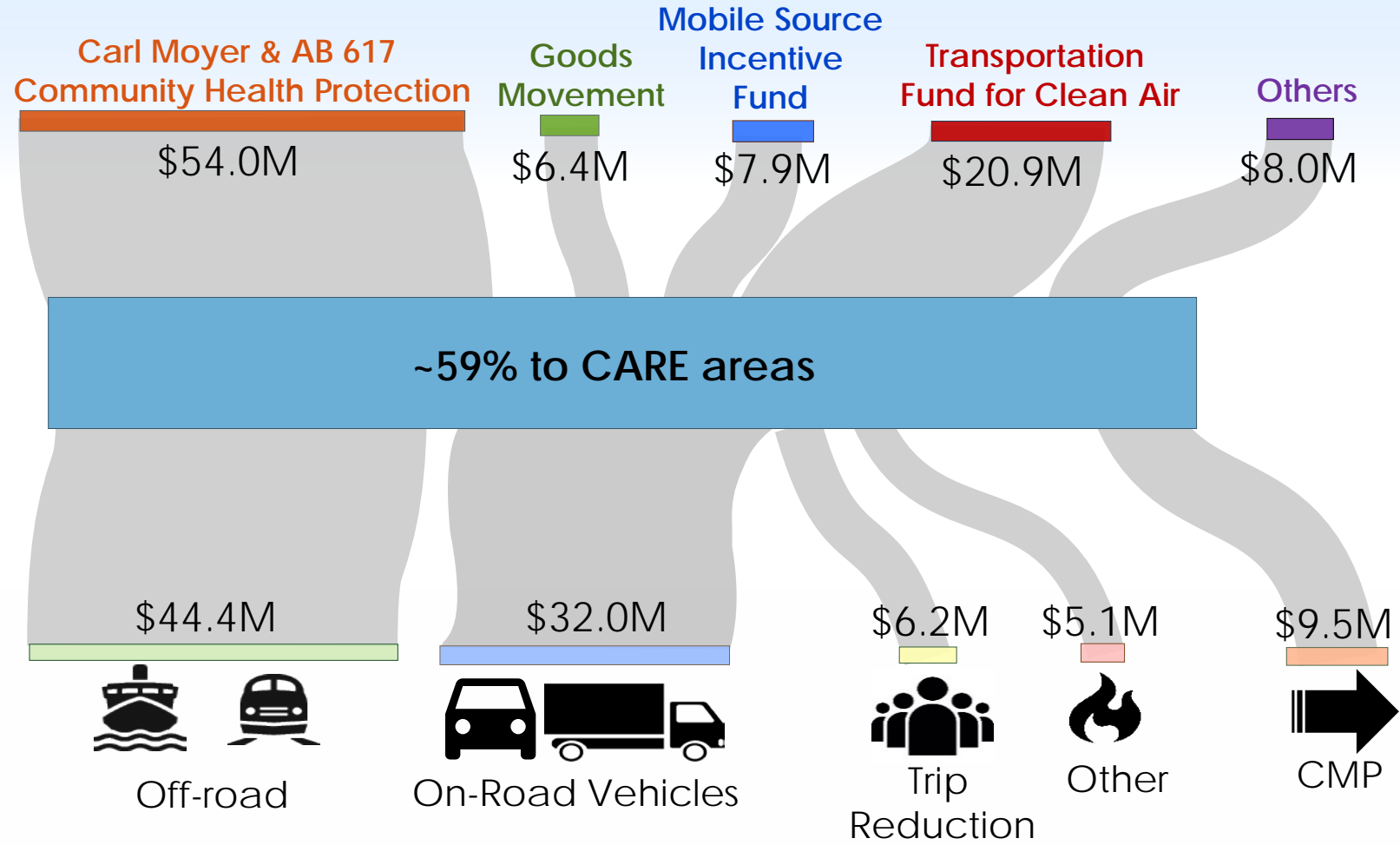
# Sources of Air Pollution & Grant Funding

Bay Area 2015 Total: 667 tons/day





# Over \$97.2 million (M) Awarded in 2018 by Funding Source & Project Type



\* Other funding sources include U.S. EPA's DERA, California Climate Investments, & Air District's general fund





# 2018 Projects Awarded Off-Road

Over \$44 M awarded to 92 projects

Non-Agricultural Off-Road Equipment \$21.2 M

Marine Equipment \$ 9.8 M

Locomotives \$8.1 M

Agricultural Equipment \$5.3 M

**Total \$44.4 M**





# 2018 Projects Awarded On-Road

Over \$32 M awarded to 100 projects

School Buses \$17 M



Electric Vehicles and Charging \$ 5.5 M



Vehicle Buy Back \$5 M

Trucks and Transit Buses \$4.5 M

**Total > \$32 M**





# 2018 Projects Awarded Trip Reduction

Over \$6.2 M awarded to 18 projects

Spare the Air	\$2.3 M
Shuttles and Ridesharing	\$ 2.0 M
Bicycle Paths and Lanes	\$1.2 M
Commuter Benefits	\$0.5 M
Bicycle Parking	\$0.2 M
<b>Total</b>	<b>&gt; \$6.2 M</b>





# 2018 Projects Awarded Other Projects, TFCA & CMP

Over \$5.1 M awarded to other projects

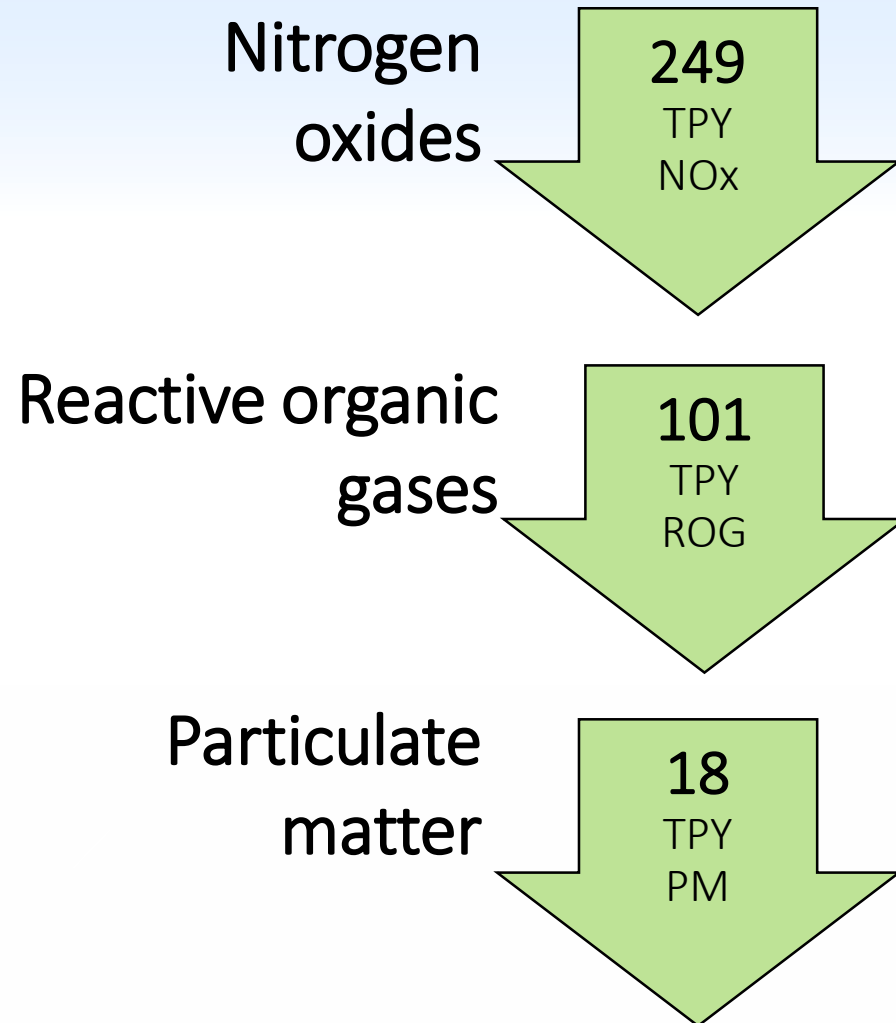
Climate Change Protection Grants	\$4.5 M
Wood Smoke Reduction	\$ 0.4 M
Community Education and Engagement	\$0.2 M
<b>Total</b>	<b>&gt; \$5.1 M</b>



Over \$9 M of TFCA funds pass-through to County  
Transportation Agencies



# 2018 Emissions Reductions

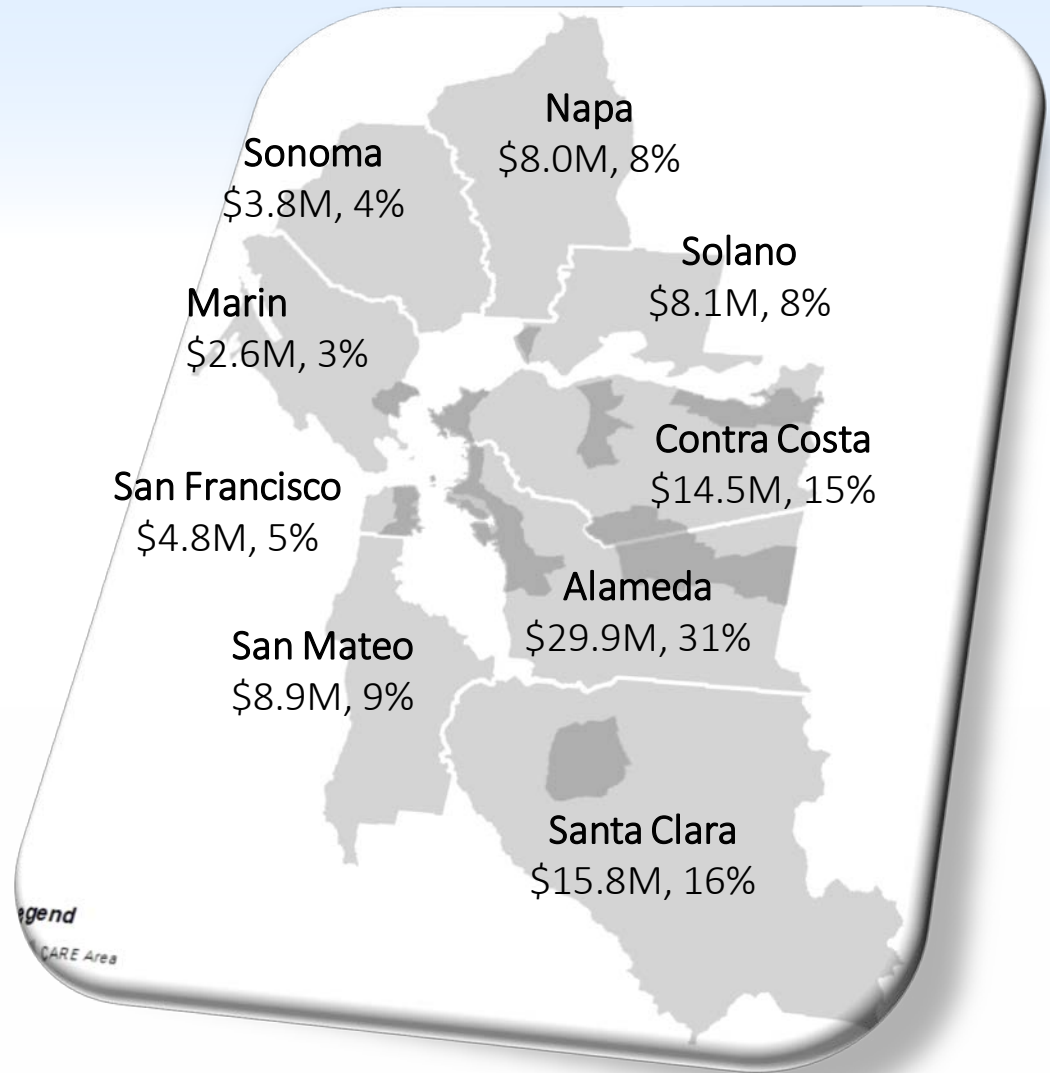


- **368 tons per year (TPY) of criteria pollutant emissions reduced**
  - Equivalent to removing over **62,000 vehicles off the road**
- **22,239 TPY\* of carbon dioxide (CO<sub>2</sub>) emissions reduced**
  - \*Not all programs report CO<sub>2</sub> reductions





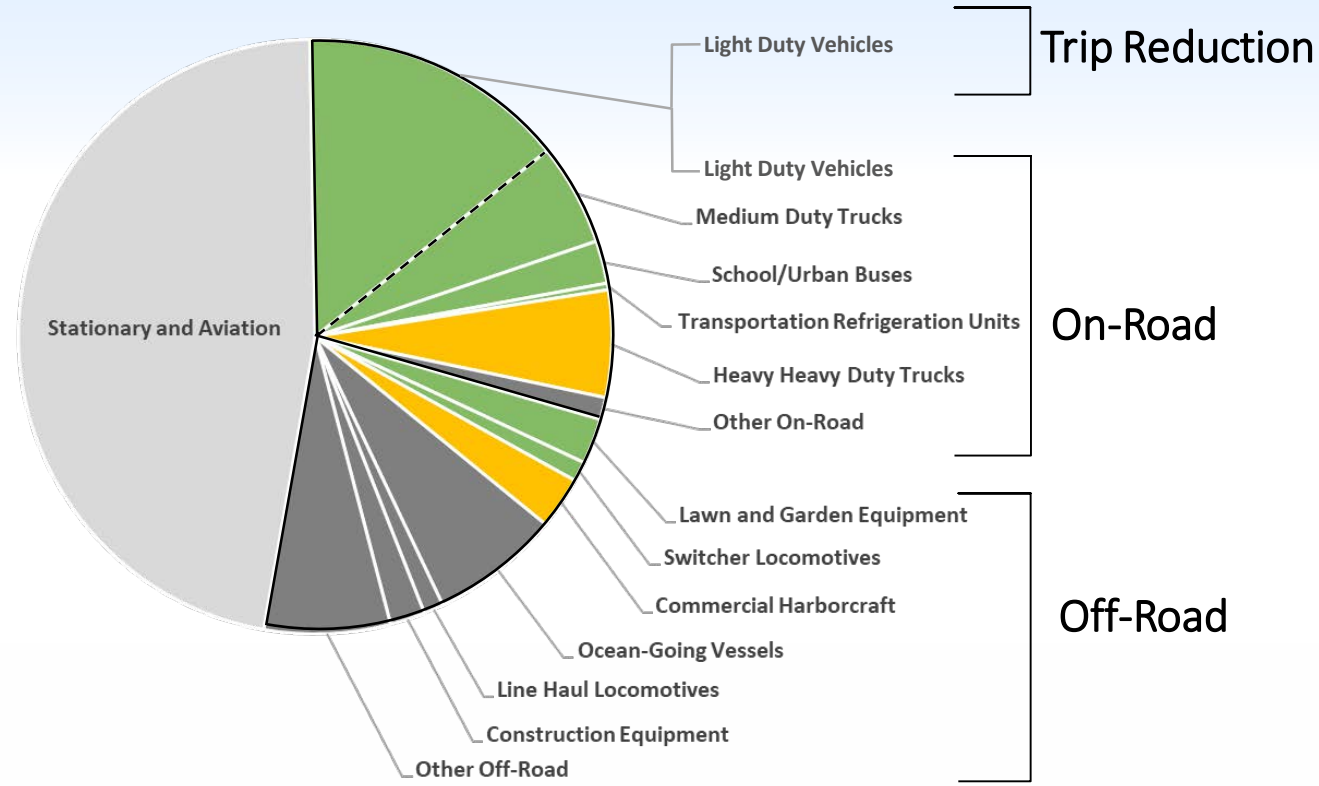
# \$96.5 M Awarded in the Air District in 2018 by County





# 2018 Diesel Free by '33

Data Source: California Air Resources Board, CEPAM: 2016 SIP - Standard Emission Tool



- 3 miles of new and improved bikeways
- 6,300 Single Occupancy Vehicle (SOV) trips reduced per day via shuttles & ridesharing
- >1,000 level 2 and 35 DC fast chargers
- 29 Electric school buses
- 1 hydrogen passenger ferry
- 13 Hybrid-electric rubber-tired gantry cranes
- 40 Electric airport ground support equipment units

■ Commercially Available  
■ Pre-Commercial/Demonstration  
■ R&D







# 2011-2018 Zero Emissions Projects



**Light-Duty  
Cars &  
Fueling  
Stations**

**Shared &  
Connected  
Vehicles**

**On-Road  
Trucks and  
Buses**

**Off-Road &  
Rail**

**Shore  
Power**

>1,600 cars  
>3,900  
charging  
stations

Bike Sharing  
Car Sharing  
SAVs

>258 Medium &  
Heavy Duty

~160 CHE and  
Airport GSE  
Caltrain

14 Berths at the  
Port of Oakland





# Funding Awarded 2014-2018

Over \$294.5 M awarded



**Light Duty  
Vehicles &  
Infrastructure**

**Trip  
Reduction**

**On-Road  
Trucks and  
Buses**

**Off-Road  
Equipment**

**Other**

Light Duty EVs  
EV Charging  
Alternative Fueling  
Infrastructure  
VBB

Shuttles &  
Ridesharing  
Bicycle Facilities  
Spare the Air  
Commuter Benefits

Heavy Duty Trucks  
Transit Buses  
School Buses

Locomotives  
Agriculture  
Equipment  
Marine

Planning & Outreach  
Woodsmoke

**\$51.9M**

**\$43.1M**

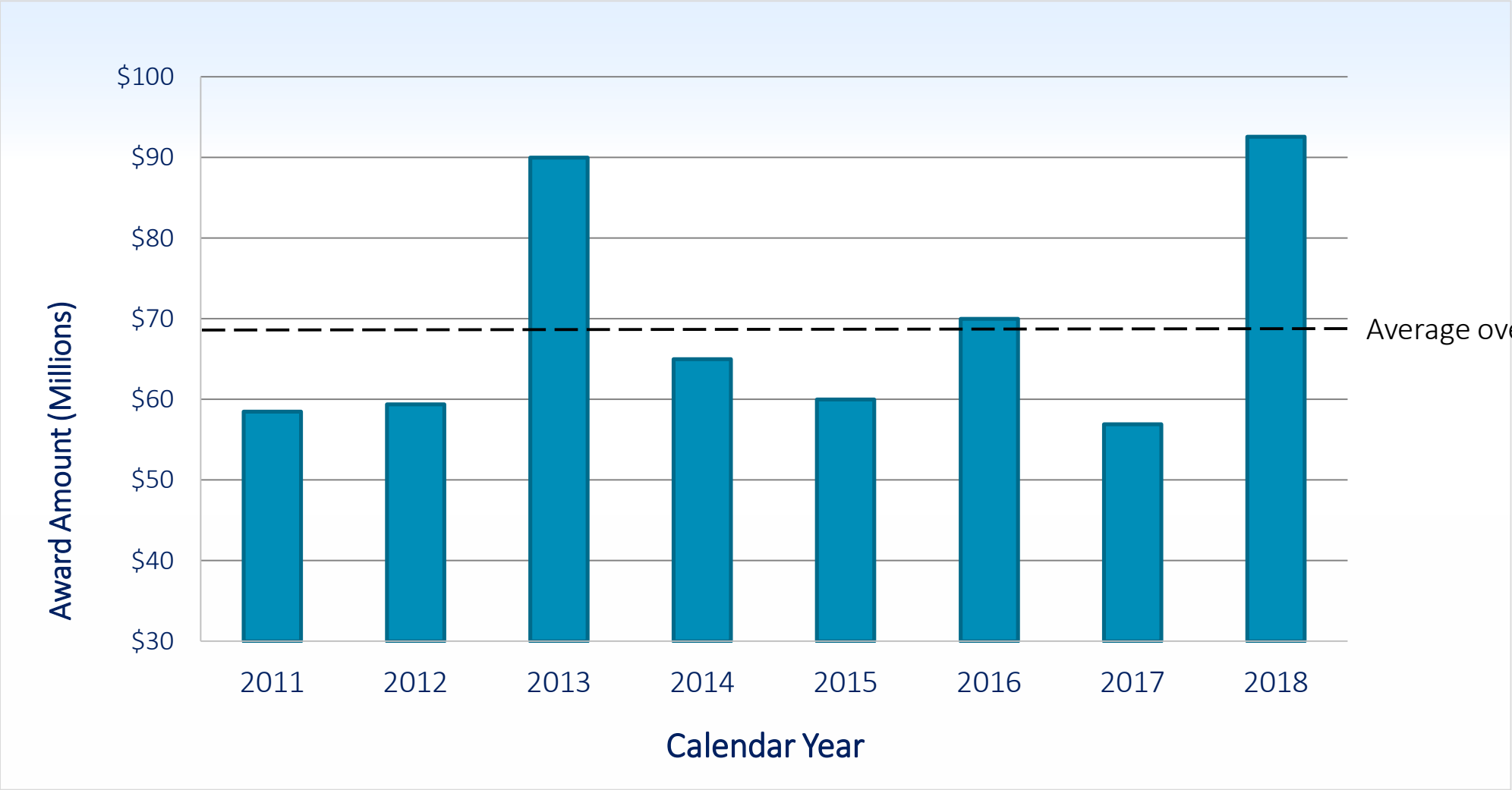
**\$85.1M**

**\$103.1M**

**\$11.4M**

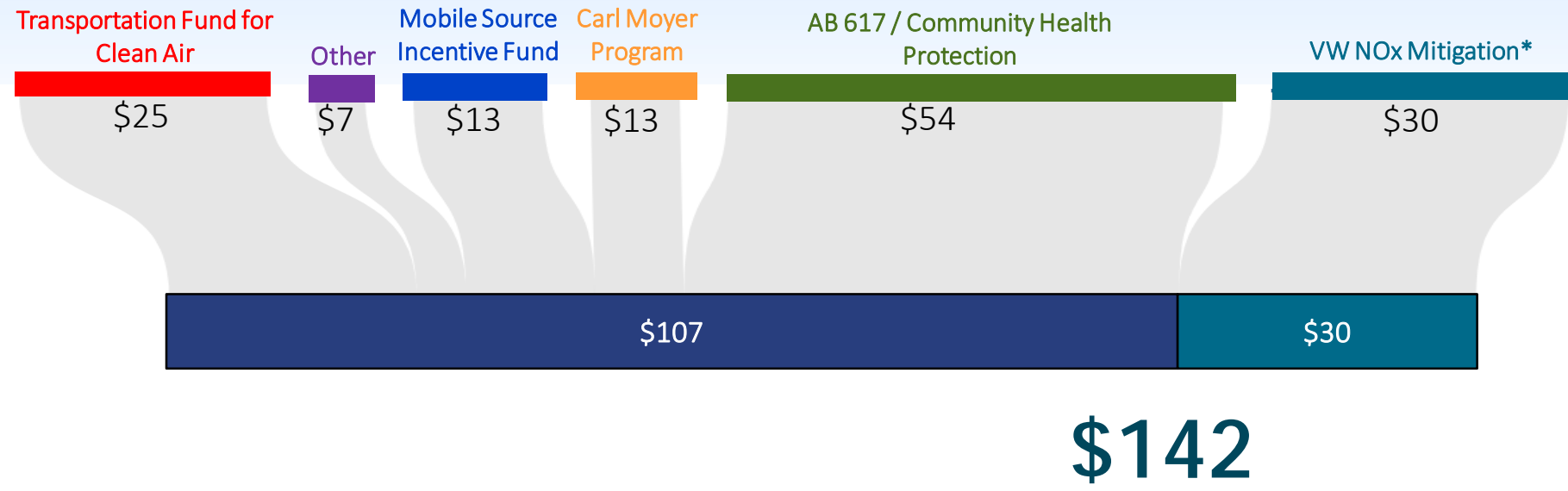


# Grant Funds Awarded 2011-2018





# Projected Grant Revenues for Calendar Year (CY) 2019 (in Millions)



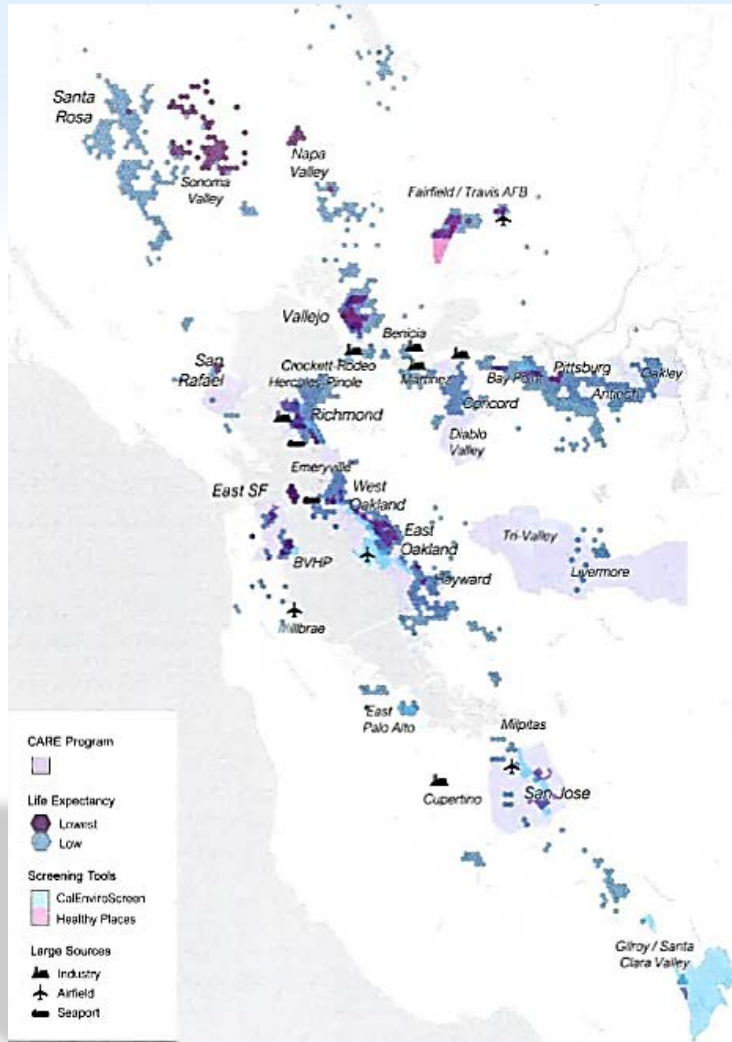
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 CMP Statewide Funds  
 FARMER (agriculture only)  
 LCFS - Low Carbon Fuel Standard

Other Funding Sources:  
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 RFG – Reformulated Gasoline Settlement Fund  
 SEP - Supplemental Environmental Project

\*Total Volkswagen funding is \$423M statewide, which will be dispersed over ~5 year period. Staff projects that as much as 33% of funding could go to projects located in the Bay Area.



# 2019 Grant Program Priorities



- AB 617 & impacted communities to reduce disproportionate exposure
  - On-road trucks
  - Off-road & cargo handling equipment
  - Locomotives
  - Marine vessels
  - Stationary
- Diesel Free by '33
- Trip reduction and innovative first- & last-mile solutions

