



---

Bay Area Air Quality Management District  
Mobile Source Committee

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

---

May 23, 2019

Sean Newlin  
Staff Specialist  
Strategic Incentives Division



- ❖ Background
- ❖ Proposed Projects with Awards Over \$100,000
- ❖ Overview of Fiscal Year Ending (FYE) 2019 Funds
  - Awards by project type and county
  - Status of funding
- ❖ Recommendations



# Carl Moyer Program and Mobile Source Incentive Fund

---

## ❖ CMP

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

## ❖ 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)

---

- ❖ Created by AB 134 appropriation of \$250 Million (M) 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 \$50M of these funds for emission reduction projects under the CMP, and optionally under the Proposition 1B Goods Movement Emission Reduction Program



## ❖ 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 \$50M in AB 134 funding for the Community Health Protection Grant Program (CHP)



## Project Recommendations Over \$100k

---

- ❖ **\$271,135 in total awards for two projects**
  - Replacement of five diesel tractors
  
- ❖ **Emission reductions**
  - Over 0.88 tons per year (TPY) of criteria pollutants



# Transportation Fund for Clean Air (TFCA)

---

- ❖ Statutory authority set forth in California Health and Safety Code Sections 44241 and 44242
  
- ❖ Funding provided by a \$4 surcharge on motor vehicles:
  - 60% of TFCA funds awarded directly by the Air District (*Regional Fund & Air District-Sponsored*)
  - Remaining 40% is distributed to the Nine Bay Area Congestion Management Agencies (*County Program Manger Fund*)



### ❖ On 5/2/18 Air District Board of Directors

- Allocated \$20.44M in TFCA funds for FYE 2019 projects and programs
- Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000

### ❖ On 6/6/18 Air District Board of Directors

- Adopted policies and evaluation criteria for the FYE 2019 TFCA Regional Fund program





# TFCA Project Recommendations Over \$100k

---

- ❖ **\$500,000 in total awards for one project**
  - 20 DC fast-charging stations
  
- ❖ **Emission reductions**
  - Over 0.42 TPY of criteria pollutants



# Reformulated Gasoline (RFG) Settlement Fund

---

- ❖ **RFG's Open Grants Program created from an antitrust class action**
  - For clean air and fuel efficiency benefits for California consumers
  - Majority of \$7M in funding was awarded in 2010
  
- ❖ **On 11/1/17 Air District Board of Directors authorized**
  - Acceptance of up to \$2M RFG funds from Bay Area Clean Air Foundation
  - The Executive Officer/APCO to enter into all agreements necessary to accept, obligate, and expend this funding



# RFG Settlement Fund (Cont'd)

---

## ❖ On 12/5/17, the Bay Area Clean Air Foundation

- Entered into contract for \$1.3M for projects that will accelerate the adoption of zero and near-zero-emission equipment and vehicles in and near the Port of Oakland and West Oakland Community



## RFG Project Recommendations Over \$100k

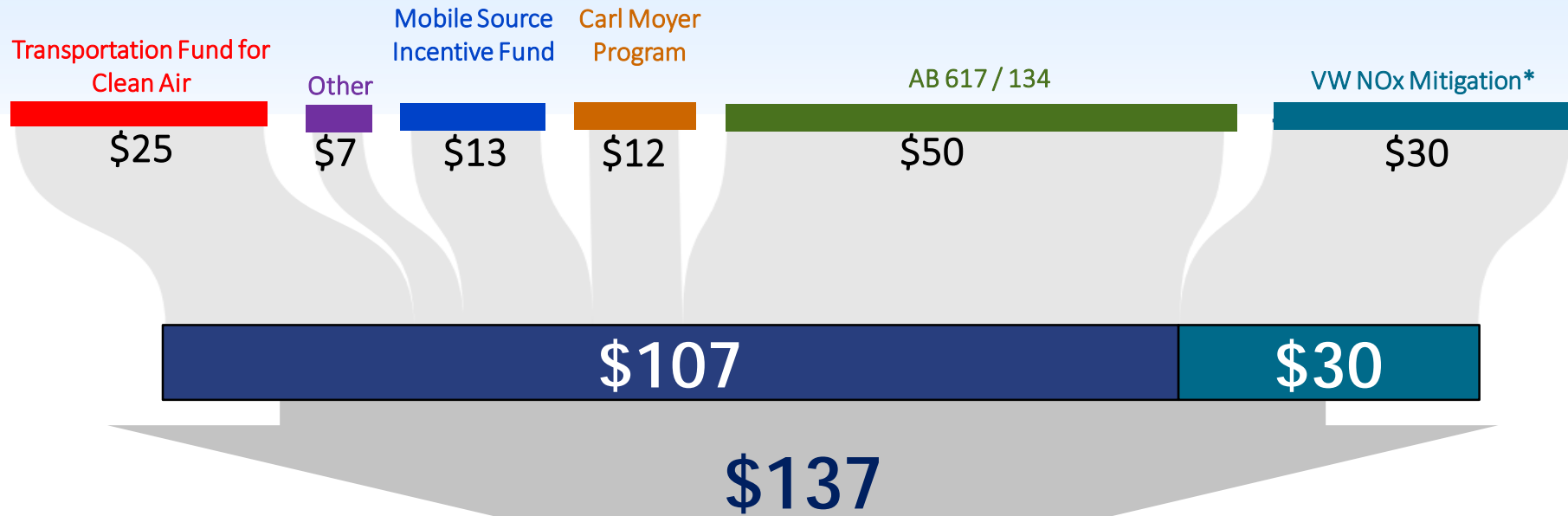
---

- ❖ **\$989,400 in total awards for 2 projects**
  - 10 DC fast-charging stations
  - Six (6) electric yard hostlers
  
- ❖ **Emission reductions**
  - Over 0.51 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
- FARMER (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 and Awarded by Project Category Since July 2018

Total = ~\$64M

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

\$8.8 M

\$3.4 M

\$17.0 M

Ag: \$3.8 M

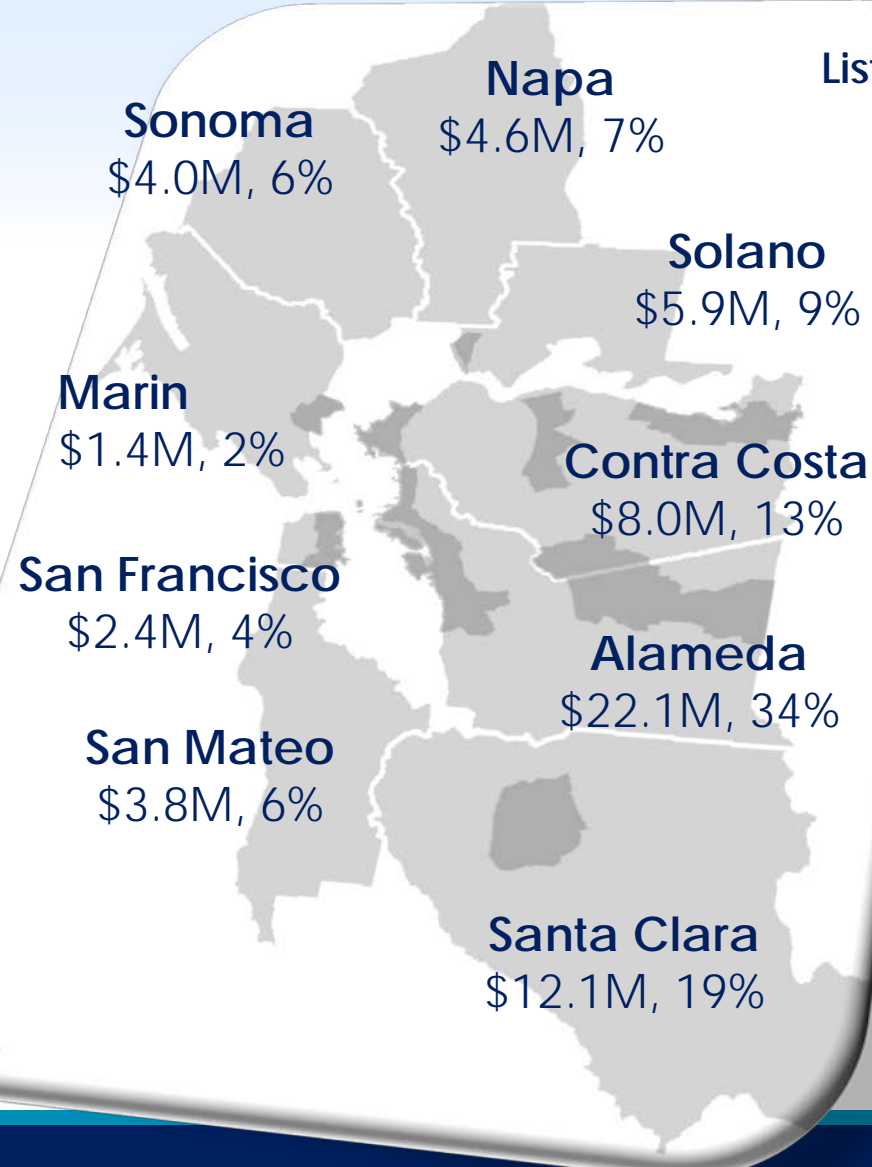
Non-Ag:  
\$4.9 M

\$16.1 M

\$10.6 M



# Funds Recommended and Awarded by County Since July 2018



List of projects is shown in Attachments 2 and 3

Total = \$~64M





# Status of Incentive Funding Awarded Since July 2018, by Funding Source



■ Awarded or Passed-through   ■ Available   ■ Recommended   ▲ Awarded to date (since July 1, 2018)

\* Includes awards from FYE 2018 and additional MSIF match for CMP  
+ Total awarded and recommended amount of \$1.23M – projects without sufficient funding will be placed on a contingency list





# Status of Solicitations

Program Name, Description, and Website	Status	Source
<b>Carl Moyer</b> Funding to replace heavy-duty on- and off-road vehicles and equipment <a href="http://www.baaqmd.gov/moyer">www.baaqmd.gov/moyer</a>	Open	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>	Open	MSIF
<b>Charge!</b> Funding to install public charging stations <a href="http://www.baaqmd.gov/charge">www.baaqmd.gov/charge</a>	Open until June 30, 2019	TFCA
<b>West Oakland Zero Emission Grant Program</b> Funding to purchase zero-emission vehicles & equipment <a href="http://www.baaqmd.gov/WestOaklandZEV">www.baaqmd.gov/WestOaklandZEV</a>	Open until June 30, 2019	RFG
<b>Clean Cars for All</b> Funding for low-income owners to retire and replace their vehicles with a cleaner option <a href="http://www.baaqmd.gov/cleancarsforall">www.baaqmd.gov/cleancarsforall</a>	Open	California Climate Investments

*Additional grant programs for other project categories scheduled to open later this year*



# Recommended Actions

---

## *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.



---

Bay Area Air Quality Management District  
Mobile Source Committee

# Fiscal Year Ending (FYE) 2020 Transportation Fund for Clean Air (TFCA) Regional Fund Policies & Evaluation Criteria

---

May 23, 2019

Ken Mak  
Supervising Staff Specialist  
Strategic Incentives Division

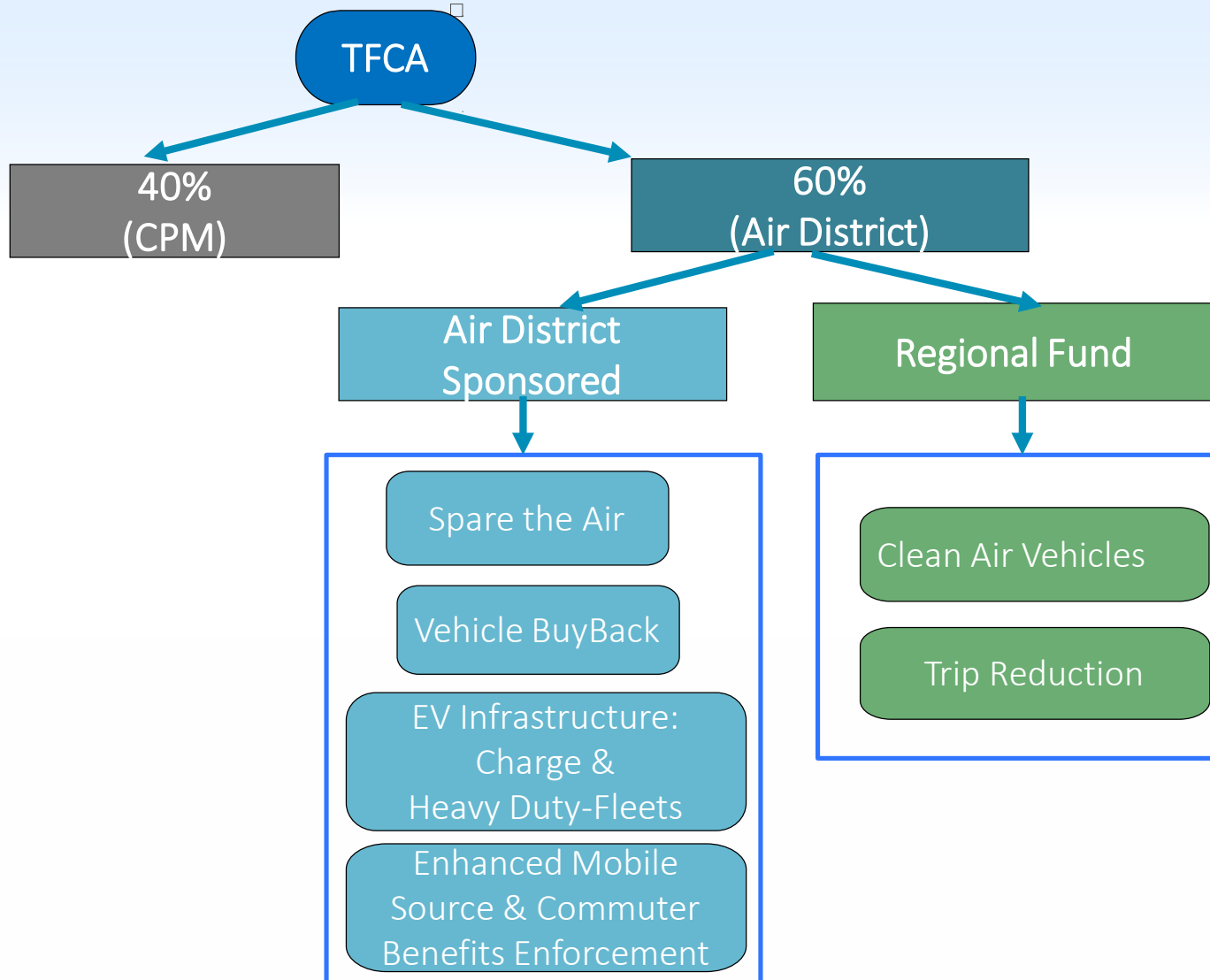


# Overview

- ❖ Background of Transportation Fund for Clean Air (TFCA)
- ❖ Public Outreach and Timeline for TFCA-Funded Projects and Programs in Fiscal Year Ending (FYE) 2020
- ❖ Proposed Updates to TFCA Policies for FYE 2020
  - Public Input
  - General and Project Specific Updates
- ❖ Recommendations



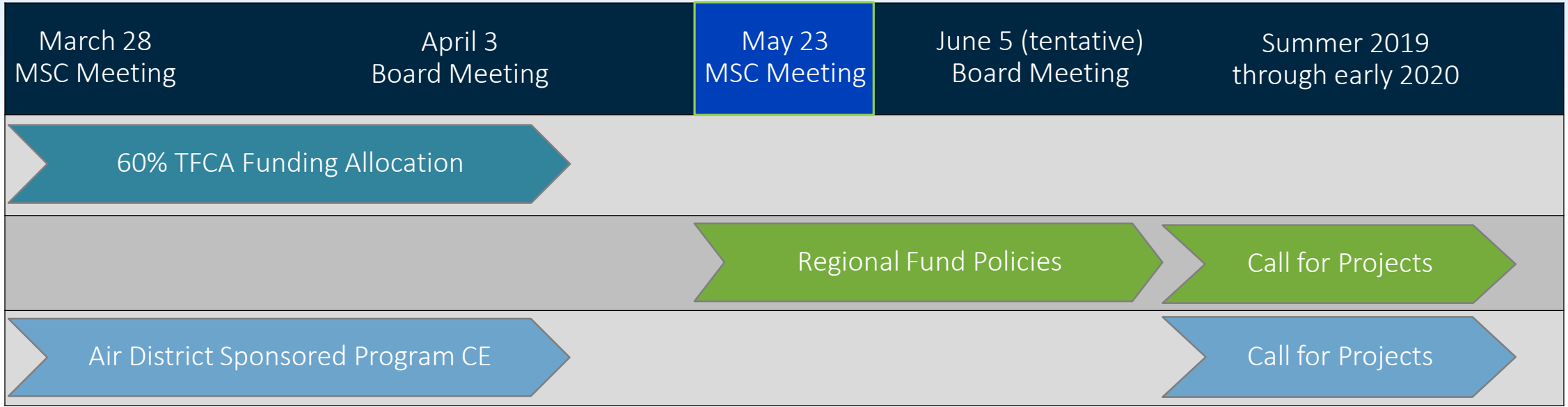
# TFCA Background



- ❖ Established in 1991 to fund projects that reduce on-road motor vehicle emissions
- ❖ Funded by a \$4 motor vehicle registration fee surcharge
- ❖ Air District Board of Directors (Board) approves funding and updates policies and cost-effectiveness (C-E) criteria annually



# FYE 2020 TFCA Timeline



Public Comment Period: April 8, 2019 to May 13, 2019

- ❖ Email notifications sent to 2,000+ stakeholders and an online webinar held on May 1, 2019
- ❖ Additional meetings held with County Program Managers



# Proposed Updates

## General Policies: Policy #2: TFCA Cost-Effectiveness

### ❖ Proposed updates to C-E threshold:

Project Category	FYE 2019 C-E	Proposed FYE 2020 C-E
Light- and Medium-Duty Zero- and Partial-Zero-Emissions Vehicles	\$250,000	\$500,000
On-Road Heavy-Duty Zero- and Partial Zero-Emissions Trucks and Buses	\$250,000	\$500,000
Vehicle Scrapping	N/A	\$50,000
Pilot Trip Reduction	\$250,000	\$500,000
Bikeways	\$250,000	\$500,000

### ❖ No change proposed to C-E thresholds for the following project categories:

- On-Road Truck Replacements, Hydrogen Stations, Existing Shuttle/Feeder Bus Services, Existing Regional Ridesharing Services, and Electronic Bicycle Lockers

### ❖ Proposed C-E threshold for new Vehicle Scrapping category is \$50,000



# Proposed Updates

## Clean Air Vehicle Projects

❖ Projects that accelerate the adoption of zero-emission technologies for compliant fleets and incentivize the permanent retirement of highly-polluting vehicles

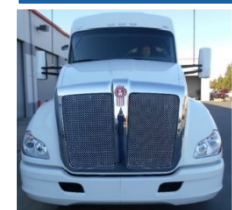
### Policy Updates:

- ❖ C-E limits increased to \$500,000/ton for zero- and partial-zero emissions vehicles for fleets (Light- and Medium-Duty and Heavy-Duty), #2
- ❖ Clarified that policy was intended for trucks, #22
- ❖ Removed model year requirement, #23 & #24
- ❖ Added new category: vehicle scrapping, #26
- ❖ Text revisions for clarity



#22 – On-Road Truck Replacements

#23 – Light- and Medium-Duty Zero- and Partial-Zero-Emissions Vehicles for Fleets



#24 – Heavy-Duty Zero- and Partial-Zero-Emissions Vehicles

#25 – Hydrogen Stations



#26 – Vehicle Scrapping





# Proposed Updates

## Trip Reduction Projects

❖ Projects that facilitate first- and last-mile connections to reduce commute-hour single-occupancy vehicle trips

### Policy Updates:

- ❖ C-E limit increased to \$500,000/ton for Pilot Trip Reduction, #2
- ❖ Text revisions for clarity, #29





# Proposed Updates

## Trip Reduction Projects – Bicycle Projects

- ❖ Projects that facilitate mode shift to active transportation by constructing bikeways and installing bicycle parking to reduce single-occupancy trips

### Policy Updates:

- ❖ C-E limit for bikeways increased to \$500,000/ton, #2
- ❖ Text revisions for clarity



#31 – Electronic Bicycle Lockers



#32 – Bikeways

- ❖ Staff also recommends a change to the 2020 TFCA CPM Fund Policies to increase the C-E threshold for the Bicycle Projects category to align it with proposed FYE 2020 Regional Fund Policies C/E threshold



# Recommended Actions

---

Recommend the Board of Directors:

1. Approve the proposed FYE 2020 TFCA Regional Fund Policies and Evaluation Criteria presented in Attachment A; and
2. Approve a change to FYE 2020 TFCA County Program Manager Fund Policies to increase the cost-effectiveness threshold for the Bicycle Projects category such that it is aligned with the threshold that is proposed for the FYE 2020 TFCA Regional Fund Policies.

# Electric Vehicle (EV) Ecosystem Update: EV Equity



May 23, 2019

Tin Le  
Deanna Yee

Technology Implementation Office

# Electric Vehicle (EV) Ecosystem Update



Part 1 - March 2019

## **Status of Light-Duty EV Adoption in the Bay Area**

Part 2 - April 2019

## **EV Programs: Incentives and Awareness**

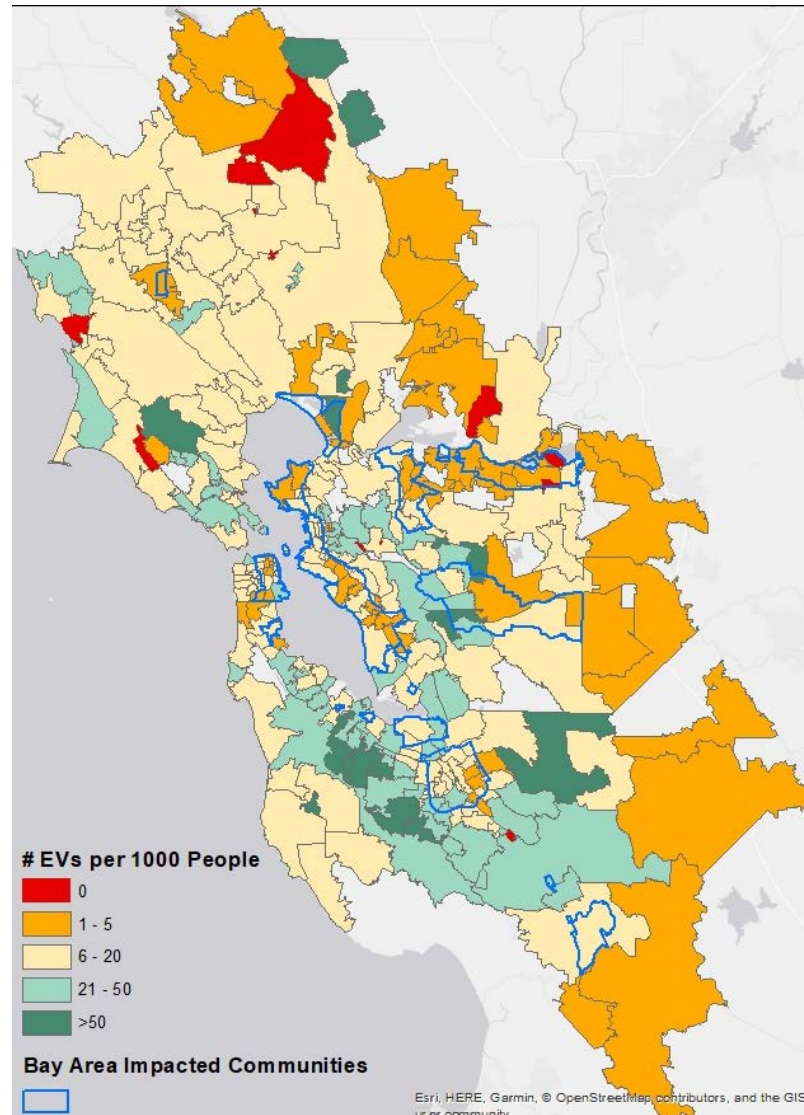
Part 3 – May 2019

## **EV Equity**

Part 4 – Fall 2019

## **Heavy Duty Market Update**

# Adoption of EVs in Bay Area by Zip Code



# Demographics of California EV Purchasers Who are Eligible for California Rebate



<b>Race</b>	56%	White/Caucasian
<b>Gender</b>	72%	Male
<b>Education</b>	79%	≥Bachelor's Degree
<b>Home Type</b>	77%	Detached homes
<b>Age</b>	50%	40 – 59 years old

# Cost of Living and EV Affordability



<b>% of Federal Poverty Level (FPL)</b>	<b>Income for Family of 4</b>	<b>Average Disposable Income (Based on Oakland Cost of Living)</b>
≤225%	\$57,938	-\$14,154
≤300%	\$77,250	\$5,158
≤400%	\$103,000	\$30,908

## **Typical Battery Electric Vehicle Cost**

\$11,000 (Used)

\$27,000 (New)



# Benefits from EV Equity



## For Consumers



- Benefit from fuel savings, lower maintenance, and ride quality
- Improve air quality in disadvantaged communities and across Bay Area, aligned with Assembly Bill (AB) 617

## For Region & Climate



- Expand EV usage across the Bay Area, including expanded charging network
- Scale-up of EV market beyond early adopters
- Reduce demand and use of fossil fuels

# Clean Cars for All Program



<http://www.baaqmd.gov/cleancarsforall>



Low-income residents ( $\leq 400\%$  FPL) in communities disproportionately burdened by pollution who turn in older vehicle\*



## Advanced Technology

- Purchase or lease
- Hybrid, plug-in, or electric vehicle
- 8 years old or newer



## Alternative Transportation

- Clipper card
- Voucher for bike sharing, car-sharing, vanpooling

# Eligibility, Replacement Options, and Funding Levels Based on Funding Source



CalEnviroScreen 3.0  
Communities

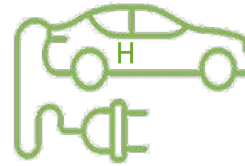
\$4.25 Million (M)  
available

Hybrid



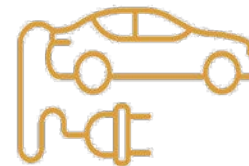
\$5,000 - \$7,000

Plug-In  
Hybrid



\$5,500 - \$9,500

Battery  
Electric



\$5,500 - \$9,500

Transit



\$2,500 - \$4,500



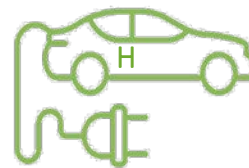
Optional

\$2,000 rebate for home charger

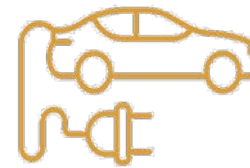
Volkswagen  
Settlement  
Funds

\$4.25M available

Entire Bay  
Area



Optional

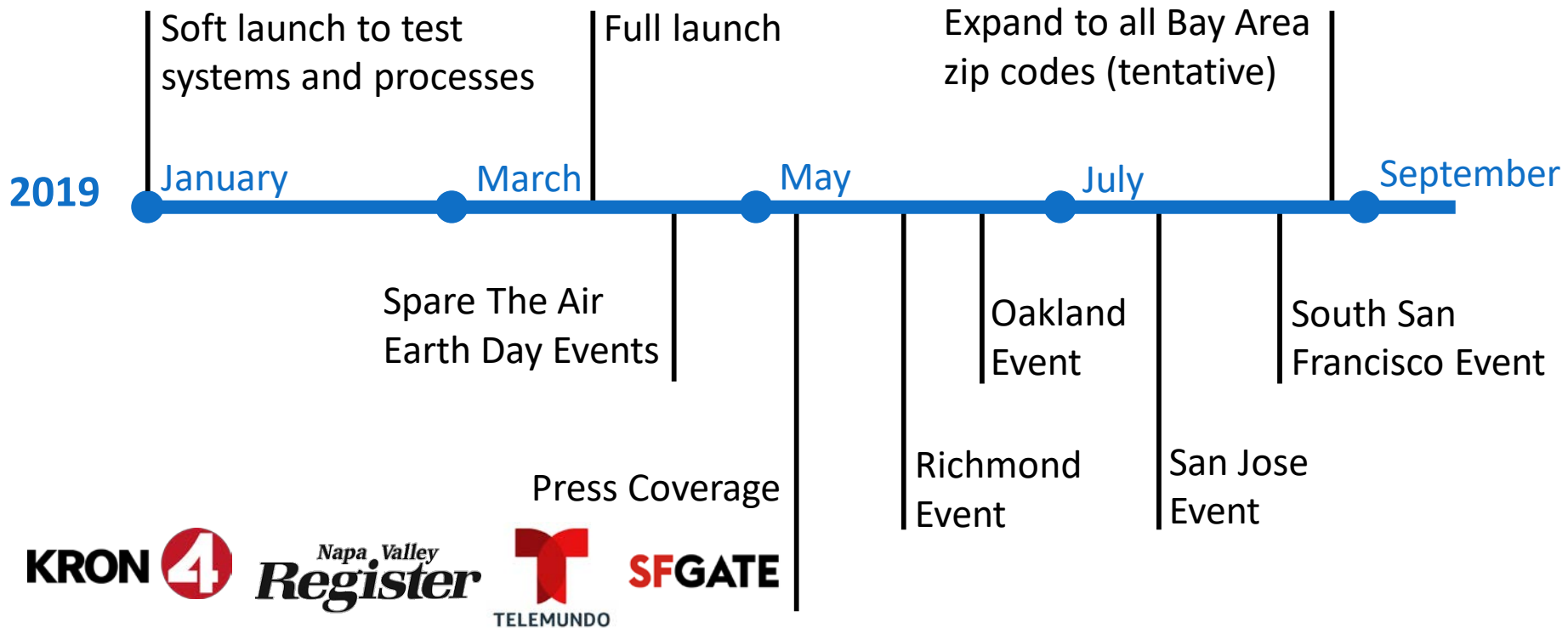


Optional

# Timeline for Program Launch and Outreach



## Program



## Outreach

# Partnerships and Complementary Programs



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

Clean Cars for All



Center for  
Sustainable Energy

Clean Vehicle Rebate Project



Clean Air Vehicle Decals



beneficial state foundation



Clean Vehicle Assistance Program



METROPOLITAN  
TRANSPORTATION  
COMMISSION

Means-Based Fare Discount Program



GRID  
ALTERNATIVES

One-Stop-Shop



PENINSULA  
CLEAN ENERGY



Sonoma  
Clean Power

Vehicle Rebates, EV Rate Plans

# Updates on Soft Launch/Lessons Learned



Case managers



Partnerships



Engagement

with stakeholders in  
disadvantaged communities



Application and Grant  
Management System



# Cloud-based platform for pre- and post-award grants management



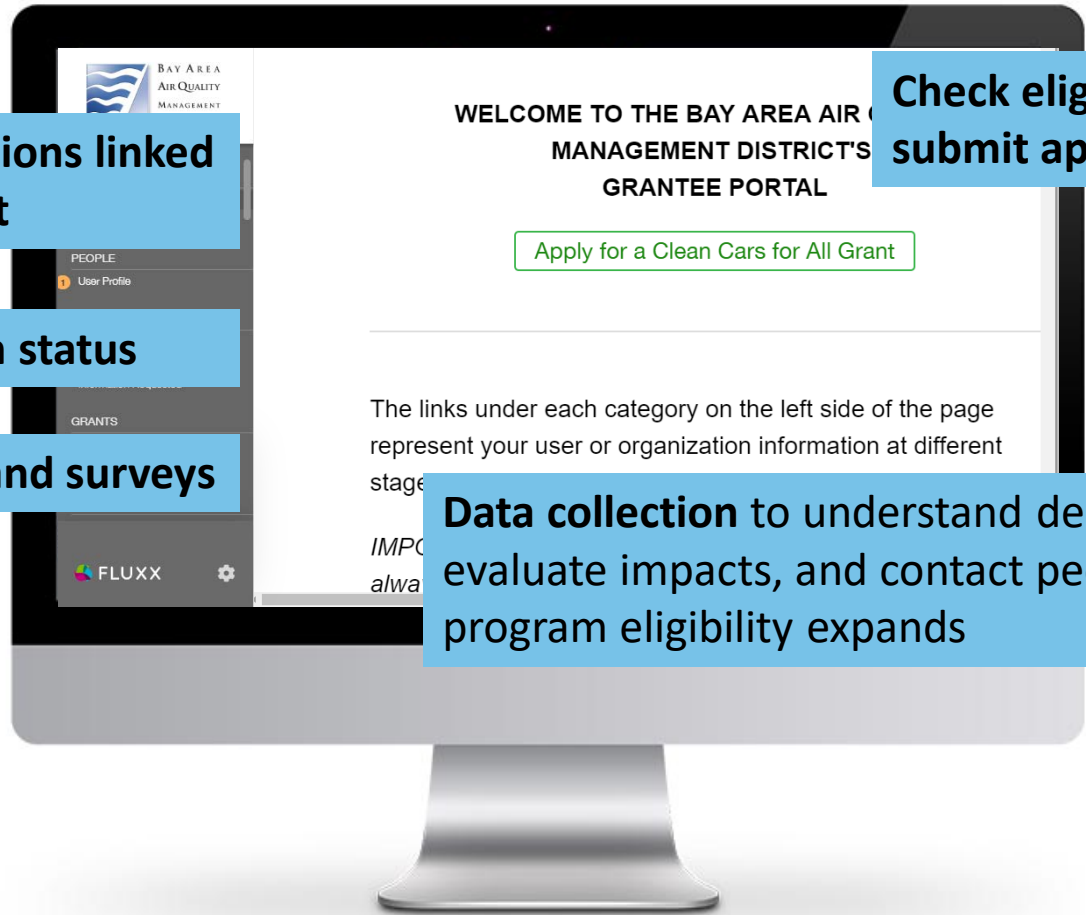
# Facilitate Responsiveness, Transparency, Maximizing Benefits for the Applicants



**Receive notifications linked to email and text**

**Track application status**

**Submit reports and surveys**



**Check eligibility and submit application**

**Data collection to understand demographics, evaluate impacts, and contact people if program eligibility expands**



# Efficient and Coordinated Grant Review and Administration



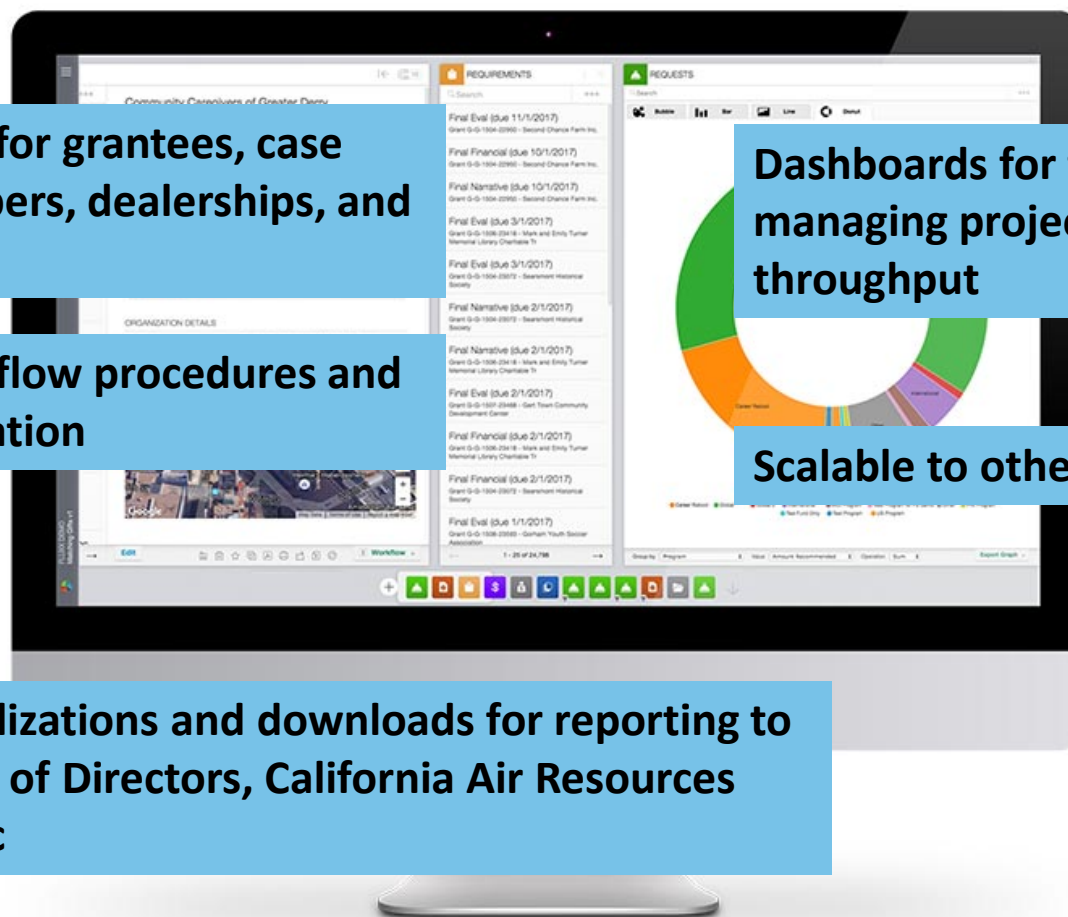
Separate portals for grantees, case managers, scrappers, dealerships, and Air District staff

Automated workflow procedures and document generation

Dashboards for tracking and managing project status and throughput

Scalable to other programs

Automated visualizations and downloads for reporting to Air District Board of Directors, California Air Resources Board, and Public





Thank you

