



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

BOARD OF DIRECTORS  
MOBILE SOURCE AND CLIMATE IMPACTS COMMITTEE

COMMITTEE MEMBERS

DAVID CANEPA – CO-CHAIR  
ROB RENNIE – VICE CHAIR  
PAULINE RUSSO CUTTER  
LYNDA HOPKINS  
DAVINA HURT  
LORI WILSON

KATIE RICE – CO-CHAIR  
MARGARET ABE-KOGA  
JOHN GIOIA  
DAVID HUDSON  
KAREN MITCHOFF

**THIS MEETING WILL BE CONDUCTED UNDER PROCEDURES AUTHORIZED BY  
EXECUTIVE ORDER N-29-20 ISSUED BY  
GOVERNOR GAVIN NEWSOM**

- **THE PUBLIC MAY OBSERVE THIS MEETING THROUGH THE WEBCAST BY  
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WEBPAGE AT**

[www.baaqmd.gov/bodagendas](http://www.baaqmd.gov/bodagendas)

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(669) 900-6833 or (408) 638-0968

WEBINAR ID: 871 9790 4507

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COMMENT CAN USE THE “RAISE HAND” FEATURE BY DIALING “\*9”. IN  
ORDER TO RECEIVE THE FULL ZOOM EXPERIENCE, PLEASE MAKE SURE  
YOUR APPLICATION IS UP TO DATE**

**THURSDAY  
FEBRUARY 25, 2020  
9:30 A.M.**

## **AGENDA**

**1. CALL TO ORDER - ROLL CALL**

**PLEDGE OF ALLEGIANCE**

**PUBLIC MEETING PROCEDURE**

*The Committee Chair shall call the meeting to order and the Clerk of the Boards shall take roll of the Committee members.*

*This meeting will be webcast. To see the webcast, please visit [www.baaqmd.gov/bodagendas](http://www.baaqmd.gov/bodagendas) at the time of the meeting. Closed captioning may contain errors and omissions and are not certified for their content or form.*

**Public Comment on Agenda Items** *The public may comment on each item on the agenda as the item is taken up. Members of the public who wish to speak on matters on the agenda for the meeting, will have three minutes each to address the Committee. No speaker who has already spoken on that item will be entitled to speak to that item again.*

**CONSENT CALENDAR (ITEMS 2-3)**

**Staff/Phone (415) 749-**

**2. APPROVAL OF THE MINUTES OF NOVEMBER 19, 2020**

**Clerk of the Boards/5073**

*The Committee will consider approving the attached draft minutes of the Climate Protection Committee meeting of November 19, 2020.*

**3. APPROVAL OF THE MINUTES OF DECEMBER 3, 2020**

**Clerk of the Boards/5073**

*The Committee will consider approving the attached draft minutes of the Mobile Source Committee meeting of December 3, 2020.*

**4. PROJECTS AND CONTRACTS WITH PROPOSED GRANT AWARDS OVER \$100,000**

**A. Davis/8731**

**[adavis@baaqmd.gov](mailto:adavis@baaqmd.gov)**

*The Committee will consider recommending the Board of Directors approve the award of the Carl Moyer Program and Transportation Fund for Clean Air Program funding to projects with proposed grant awards in excess of \$100,000, waiving TFCA policies to fund an electric school bus project, and authorizing the Executive Officer/APCO to execute grant agreements for the recommended projects.*

5. **REPORT ON AIR DISTRICT GRANT PROGRAMS AND FUNDS AWARDED IN 2020**

K. Schkolnick/5070

[kschkolnick@baaqmd.gov](mailto:kschkolnick@baaqmd.gov)

*The Committee will receive an informational report summarizing grant funds awarded by the Air District in calendar year 2020, results, historical trends, and projected revenue and priorities for grant programs in calendar year 2021.*

6. **PUBLIC COMMENT ON NON-AGENDA MATTERS**

*Members of the public who wish to speak on matters not on the agenda for the meeting, will have three minutes each to address the Committee*

7. **COMMITTEE MEMBER COMMENTS**

*Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may: ask a question for clarification, make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter or take action to direct staff to place a matter of business on a future agenda. (Gov't Code § 54954.2)*

8. **TIME AND PLACE OF NEXT MEETING**

*Thursday, March 25, 2021, at 9:30 a.m. via webcast, pursuant to procedures authorized by Executive Order N-29-20 issued by Governor Gavin Newsom.*

9. **ADJOURNMENT**

*The Committee meeting shall be adjourned by the Committee Chair.*

**CONTACT:**

**MANAGER, EXECUTIVE OPERATIONS**  
**375 BEALE STREET, SAN FRANCISCO, CA 94105**  
[vjohnson@baaqmd.gov](mailto:vjohnson@baaqmd.gov)

**(415) 749-4941**  
**FAX: (415) 928-8560**  
**BAAQMD homepage:**  
[www.baaqmd.gov](http://www.baaqmd.gov)

- Any writing relating to an open session item on this Agenda that is distributed to all, or a majority of all, members of the body to which this Agenda relates shall be made available at the District's offices at 375 Beale Street, Suite 600, San Francisco, CA 94105, at the time such writing is made available to all, or a majority of all, members of that body.

**Accessibility and Non-Discrimination Policy**

The Bay Area Air Quality Management District (Air District) does not discriminate on the basis of race, national origin, ethnic group identification, ancestry, religion, age, sex, sexual orientation, gender identity, gender expression, color, genetic information, medical condition, or mental or physical disability, or any other attribute or belief protected by law.

It is the Air District's policy to provide fair and equal access to the benefits of a program or activity administered by Air District. The Air District will not tolerate discrimination against any person(s) seeking to participate in, or receive the benefits of, any program or activity offered or conducted by the Air District. Members of the public who believe they or others were unlawfully denied full and equal access to an Air District program or activity may file a discrimination complaint under this policy. This non-discrimination policy also applies to other people or entities affiliated with Air District, including contractors or grantees that the Air District utilizes to provide benefits and services to members of the public.

Auxiliary aids and services including, for example, qualified interpreters and/or listening devices, to individuals who are deaf or hard of hearing, and to other individuals as necessary to ensure effective communication or an equal opportunity to participate fully in the benefits, activities, programs and services will be provided by the Air District in a timely manner and in such a way as to protect the privacy and independence of the individual. Please contact the Non-Discrimination Coordinator identified below at least three days in advance of a meeting so that arrangements can be made accordingly.

If you believe discrimination has occurred with respect to an Air District program or activity, you may contact the Non-Discrimination Coordinator identified below or visit our website at [www.baaqmd.gov/accessibility](http://www.baaqmd.gov/accessibility) to learn how and where to file a complaint of discrimination.

Questions regarding this Policy should be directed to the Air District's Non-Discrimination Coordinator, Terri Levels, at (415) 749-4667 or by email at [tlevels@baaqmd.gov](mailto:tlevels@baaqmd.gov)

# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

375 BEALE STREET, SAN FRANCISCO, CA 94105

FOR QUESTIONS PLEASE CALL (415) 749-4941

## EXECUTIVE OFFICE:

### MONTHLY CALENDAR OF AIR DISTRICT MEETINGS

#### FEBRUARY 2021

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Community Equity, Health & Justice Committee	Friday	19	1:00 p.m.	Webcast only pursuant to Executive Order N-29-20
Board of Directors Mobile Source & Climate Impacts Committee	Thursday	25	9:30 a.m.	Webcast only pursuant to Executive Order N-29-20

#### MARCH 2021

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Meeting	Wednesday	3	9:30 a.m.	Webcast only pursuant to Executive Order N-29-20
Board of Directors Community Equity, Health & Justice Committee	Thursday	4	9:30 a.m.	Webcast only pursuant to Executive Order N-29-20
Board of Directors Stationary Source & Climate Impacts Committee	Monday	15	9:00 a.m.	Webcast only pursuant to Executive Order N-29-20
Board of Directors Administration Committee	Wednesday	17	9:30 a.m.	Webcast only pursuant to Executive Order N-29-20
Board of Directors Legislative Committee	Wednesday	17	1:00 p.m.	Webcast only pursuant to Executive Order N-29-20
Board of Directors Mobile Source & Climate Impacts Committee	Thursday	25	9:30 a.m.	Webcast only pursuant to Executive Order N-29-20

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Memorandum

To: Chairpersons David Canepa and Katie Rice, and Members  
of the Mobile Source and Climate Impacts Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: February 19, 2021

Re: Approval of the Minutes of November 19, 2020

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RECOMMENDED ACTION

Approve the attached draft minutes of the Climate Protection Committee (Committee) meeting of November 19, 2020.

DISCUSSION

Attached for your review and approval are the draft minutes of the Climate Protection Committee meeting of November 19, 2020.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Marcy Hiratzka  
Reviewed by: Vanessa Johnson

Attachment 2A: Draft Minutes of the Climate Protection Committee Meeting of November 19, 2020

## AGENDA: 2A – ATTACHMENT

Draft Minutes – Climate Protection Committee Meeting of November 19, 2020

Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
(415) 749-5073

### DRAFT MINUTES

Summary of Board of Directors  
Climate Protection Committee Meeting  
Thursday, November 19, 2020

**This meeting was conducted under procedures authorized by executive order N-29-20 issued by Governor Gavin Newsom. Members of the committee participated by teleconference.**

#### 1. CALL TO ORDER – ROLL CALL

Climate Protection Committee (Committee) Chairperson, Teresa Barrett, called the meeting to order at 9:32 a.m.

Present: Chairperson Teresa Barrett; Vice Chair John Gioia; and Directors Scott Haggerty, David Hudson, Davina Hurt, Liz Kniss, Katie Rice, Mark Ross, and Brad Wagenknecht, and Shirlee Zane.

Absent: None.

Also Present: Board Chair Rod Sinks.

#### 2. APPROVAL OF THE MINUTES OF SEPTEMBER 30, 2020

##### Public Comments

No requests received.

##### Committee Comments

None.

##### Committee Action

Director Wagenknecht made a motion, seconded by Director Hurt, to **approve** the Minutes September 30, 2020; and the motion carried by the following vote of the Committee:

AYES: Barrett, Gioia, Haggerty, Hudson, Hurt, Kniss, Rice, Ross, Sinks, Wagenknecht.  
NOES: None.  
ABSTAIN: None.  
ABSENT: Zane.

### **3. AIR DISTRICT REGULATION OF APPLIANCES**

Jennifer Ewell, Senior Air Quality Specialist, gave the staff presentation *Air District Regulation of Appliances*, including; agenda; appliance emissions; current Air District rules; other air districts; nitrogen oxide (NO<sub>x</sub>) limit comparison; space heating equipment costs; water heater equipment costs; and further considerations.

#### Public Comments

Public comments were given by Diane Bailey, MenloSpark; Regina Hsu, Earth Justice; Debbie Mytels, Palo Alto resident; Jed Holtzman, 350 Bay Area; Daniel Tahara, San Francisco Climate Emergency Coalition; Tom Kabat, Menlo park resident; Robert Whitehair, Sustainable San Mateo County; Bruce Naegel, Sustainable Silicon Valley; Sudhanshu Jain, Santa Clara resident; and Lauren Weston, Acterra.

#### Committee Comments

The Committee and staff discussed the request that the Air District prioritizes regulating and monitoring indoor air quality; the California Air Resources Board's authority over indoor air quality; the need to enhance the Air District's public education on indoor fireplace smoke; challenges of decarbonization in both new construction and retrofit of existing buildings; and the need for programs that will make retrofitting projects affordable to low-income households.

#### Committee Action

None; receive and file.

### **4. UPDATE ON THE STATE 2022 BUILDING ENERGY CODE UPDATE**

Abby Young, Climate Protection Manager, gave the staff presentation *Update on the State 2022 Building Energy Code Update*, including: California Building Standards Code (Title 24, Parts 6 and 11); energy code update process; key issues: electrification and indoor air quality; and next steps.

#### Public Comments

Public comments were given by Bret Anderson, Carbon Free Palo Alto; Tom Kabat, Menlo Park resident; Jed Holtzman 350 Bay Area; Daniel Tahara, San Francisco Climate Emergency Coalition; Leah Louis-Prescott, Rocky Mountain Institute; Bruce Naegel, Sustainable Silicon Valley; and Mary Dateo.



### Committee Comments

The Committee and staff discussed ways in which the Air District can partner with the State, local jurisdictions and their utilities, and sub-regional community choice electricity providers in driving needed changes to the Building Energy Codes; which entities are authorized to adopt and implement building reach codes; whether the California Energy Commission (CEC) would authorize an air district to offer regional gas and electricity incentives; whether the potential for litigation from companies whose operations may be curtailed by Air District regulations discourages the Agency from imposing regulations; the request that the Air District develops a grant program to help low-income households and landlords (single and multi-family dwellings) transition to from gas-powered to electric home appliances; the suggestion that the Air District takes an official ‘support’ position on the 2022 Building Energy Code Cycle/2022 Building Energy Efficiency Standards, and the suggestion of sending the Governor a letter, asking him to create an Executive Order that would require an all-electric building code; whether Marin County’s Low-Carbon Concrete Code could be included in the 2022 Building Energy Efficiency Standards; and the concern about unintended consequences when affluent households move forward with electrification and low-income households cannot.

### Committee Action

None; receive and file.

## **5. ECONOMIC IMPACTS OF TRANSITIONING TO ECONOMY-WIDE BUILDING DECARBONIZATION**

Ms. Young introduced Amber Mahone, Director of the Clean Energy Team at Energy and Environmental Economics, Inc. Ms. Mahone gave the presentation *Residential Building Electrification in California*, including: agenda; up to 60% greenhouse gas (GHG) emission reductions can be achieved in the near term by electrifying a whole home; building electrification improves outdoor air quality, particularly when paired with other electrification; building and technologies: six low-rise residential building types are simulated; studied residential end use technologies; consumer economics (capital costs): single family Heating, Ventilation, and Air Conditioning capital costs; single family hot water heater capital costs; all-electric new construction sees lower capital cost than mixed fuel homes; Consumer economics (bill savings): heat pumps save energy costs in all retrofit homes and the majority of new construction; consumer economics (lifecycles savings): heat pumps generate lifecycle savings in many retrofits and new construction homes; and conclusions and recommendations.

### Public Comments

Public comments were given by Tom Kabat, Menlo Park resident; Denise Grab; Rocky Mountain Institute; Mary Dateo; Gary Latshaw, Cupertino resident; Jed Holtzman, 350 Bay Area; Bruce Naegel, Sustainable Silicon Valley; and Diane Bailey, Menlo Spark.

Committee Comments

The Committee and staff discussed the desire for a model ordinance that can be implemented in multiple jurisdictions: the frequency of ductless mini-split heat pump installation in single-family dwellings; the request for a range of electrification costs, rather than actual costs, in future presentations; the costs of duct testing; challenges in decarbonization in older housing stock; whether the Air District is interested in methane leakage from homes; obstacles for California air districts, due to the adoption of Assembly Bill 398 in 2017; and the request for more information on grants and incentives for low-income multi-family dwelling retrofit projects, including the anticipated timeline of such programs.

Committee Action

None; receive and file.

**6. PUBLIC COMMENT ON NON-AGENDA MATTERS**

No requests received.

**7. COMMITTEE MEMBER COMMENTS / OTHER BUSINESS**

Chair Barrett spoke about legal challenges that the community of Windsor and City of Santa Rosa are facing due to all-electric reach codes that were approved.

**8. TIME AND PLACE OF NEXT MEETING**

At the conclusion of the meeting, it was announced that the next meeting would be at the Call of the Chair. After the meeting adjourned, the Climate Protection Committee became part of both the Mobile Source Climate Impacts and Stationary Source and Climate Impacts Committees. These minutes are to be considered for approval at the meeting of the Mobile Source and Climate Impacts Committee, which will meet for the first time on Thursday, February 25, 2021, at 9:30 a.m., via webcast, pursuant to procedures authorized by Executive Order N-29-20 issued by Governor Gavin Newsom.

**9. ADJOURNMENT**

The meeting adjourned at 1:06 p.m.

Marcy Hiratzka  
Clerk of the Boards

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Memorandum

To: Chairpersons David Canepa and Katie Rice, and Members  
of the Mobile Source and Climate Impacts Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: February 19, 2021

Re: Approval of the Minutes of December 3, 2020

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RECOMMENDED ACTION

Approve the attached draft minutes of the Mobile Source Committee (Committee) meeting of December 3, 2020.

DISCUSSION

Attached for your review and approval are the draft minutes of the Mobile Source Committee meeting of December 3, 2020.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Marcy Hiratzka  
Reviewed by: Vanessa Johnson

Attachment 3A: Draft Minutes of the Mobile Source Committee Meeting of December 3, 2020

# AGENDA: 3A – ATTACHMENT

Draft Minutes – Mobile Source Committee Meeting of December 3, 2020

Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
(415) 749-5073

## DRAFT MINUTES

Summary of Board of Directors  
Mobile Source Committee Meeting  
Thursday, December 3, 2020

**This meeting was conducted under procedures authorized by executive order N-29-20 issued by Governor Gavin Newsom. Members of the committee participated by teleconference.**

### 1. CALL TO ORDER – ROLL CALL

Mobile Source Committee (Committee) Chair, David Canepa, called the meeting to order at 11:30 a.m.

Present: Chairperson David Canepa; Vice Chair Tyrone Jue; and Directors Pauline Russo Cutter, Scott Haggerty, David Hudson, Karen Mitchoff, Katie Rice, and Lori Wilson.

Absent: Director Liz Kniss.

Also Present: Board Chairperson Rod Sinks.

### 2. APPROVAL OF THE MINUTES OF OCTOBER 19, 2020

#### Public Comments

No requests received.

#### Committee Comments

None.

#### Committee Action

Director Hudson made a motion, seconded by Director Cutter, to **approve** the Minutes of October 19, 2020; and the motion carried by the following vote of the Committee:

AYES: Canepa, Cutter, Haggerty, Hudson, Jue, Mitchoff, Sinks, Wilson.  
NOES: None.  
ABSTAIN: None.  
ABSENT: Kniss, Rice.

### 3. PROJECTS AND CONTRACTS WITH PROPOSED GRANT AWARDS OVER \$100,000

Karen Schkolnick, Division Director of Strategic Incentives, introduced Adam Shapiro, Supervising Staff Specialist, who gave the staff presentation *Projects and Contracts with Proposed Awards Over \$100,000*, including: overview; Carl Moyer Program (CMP), Mobile Source Incentive Fund (MSIF), Community Health Protection (CHP), and Funding Agricultural Replacement Measures for Emission Reductions (FARMER) project recommendations over \$100,000; Transportation Fund for Clean Air (TFCA) project recommendations over \$100,000; incentive funding awarded and recommended since July 2020 by funding source, project category, and county; incentive funding offered by Air District; and recommended actions.

NOTED PRESENT: Director Rice was noted present at 11:44 a.m.

#### Public Comments

No requests received.

#### Committee Comments

The Committee and staff discussed the amount of funds remaining for the rest of the Fiscal Year and whether Air District staff anticipates that they will be allocated by the end of the Fiscal Year; how much of the funding is targeted for Community Air Risk Evaluation (CARE) communities; whether a facility (business), or Caltrans, would be the appropriate party to apply for a grant for a pedestrian/bicycle improvement project at a given location; and whether the Air District has established targets for emissions reductions for mobile sources.

#### Committee Action

Director Hudson made a motion, seconded by Director Cutter, to recommend that the Board **approve** the award of Carl Moyer Program and Transportation Fund for Clean Air Program funding to projects with proposed grant awards in excess of \$100,000 and **authorize** the Executive Officer/Air Pollution Control Officer to execute grant agreements for the recommended projects.

AYES: Canepa, Cutter, Haggerty, Hudson, Jue, Mitchoff, Rice, Sinks, Wilson.  
NOES: None.  
ABSTAIN: None.  
ABSENT: Kniss.

### 4. REPORT ON TRANSPORTATION FUND FOR CLEAN AIR PROJECTS EXPENDITURES AND EFFECTIVENESS FOR FISCAL YEAR ENDING 2020

Ms. Schkolnick introduced Linda Hui, Senior Staff Specialist, who gave the staff presentation *Report on TFCA Projects Expenditures and Effectiveness for Fiscal Year (FYI) 2020*, including: overview; TFCA background; project and program results: expenditures by project category, effectiveness and emissions reductions, and cost-effectiveness and key report findings; and next steps.

Public Comments

No requests received.

Committee Comments

The Committee and staff discussed ways in which Air District grant funding programs may be impacted in 2021, due to the pandemic; how to weigh grant expenditures based on program cost effectiveness; and which Assembly Bill (AB) 617 communities are being considered for upcoming TFCA grants.

Committee Action

None; receive and file.

**5. TRANSPORTATION FUND FOR CLEAN AIR PROGRAM REGIONAL FUND PROJECTS - AUDIT #21 RESULTS**

Ms. Schkolnick introduced Sara Lanning, Staff Specialist, who gave the staff presentation *TFCA Program Regional Fund Projects Audit #21 Results*, including: overview; background TFCA; Audit #21 scope and results; and next steps.

Public Comments

No requests received.

Committee Comments

None.

Committee Action

None; receive and file.

**6. PUBLIC COMMENT ON NON-AGENDA MATTERS**

No requests received.

**7. COMMITTEE MEMBER COMMENTS**

None.

**8. TIME AND PLACE OF NEXT MEETING**

At the conclusion of the meeting, it was announced that the next meeting would be Thursday, January 28, 2021, at 9:30 a.m. After the meeting adjourned, the Mobile Source Committee became part of the Mobile Source and Climate Impacts Committee, which would first meet on Thursday, February 25, 2021, at 9:30 a.m., via webcast, pursuant to procedures authorized by Executive Order N-29-20 issued by Governor Gavin Newsom.

**9. ADJOURNMENT**

The meeting adjourned at 12:23 p.m.

Marcy Hiratzka  
Clerk of the Boards

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

## Memorandum

To: Chairpersons David Canepa and Katie Rice, and Members  
of the Mobile Source and Climate Impacts Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: February 19, 2021

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

**RECOMMENDED ACTIONS**

Recommend Board of Directors:

1. Approve recommended projects with proposed grant awards over \$100,000 as shown in Attachment 1, including a policy waiver to allow the Transportation Fund for Clean Air Regional Fund to be used as match for a recommended school bus project;
2. Waive Policy #2, regarding Cost-Effectiveness, of the Transportation Fund for Clean Air Regional Fund to allow the replacement of two diesel buses with electric zero-emission buses to be fully reimbursable with Air District grant funding; and
3. Authorize the Executive Officer/APCO to enter into all necessary agreements with applicants for the recommended projects.

**BACKGROUND**

The Bay Area Air Quality Management District (Air District) has participated in the Carl Moyer Program (CMP), in cooperation with the California Air Resources Board (CARB), since the program began in fiscal year 1998-1999. The CMP provides grants to public and private entities to reduce emissions of nitrogen oxides (NOx), reactive organic gases (ROG), and particulate matter (PM) from existing heavy-duty engines by either replacing or retrofitting them. Eligible heavy-duty diesel engine applications include on-road trucks and buses, off-road equipment, marine vessels, locomotives, and stationary agricultural pump engines. Since 2018, this funding may also be used to incentivize the installation of infrastructure that will support new zero-emissions vehicles and equipment.

Assembly Bill (AB) 923 (Firebaugh), enacted in 2004 (codified as Health and Safety Code (HSC) Section 44225), authorized local air districts to increase their motor vehicle registration surcharge up to an additional \$2 per vehicle. The revenues from the additional \$2 surcharge are deposited in the Air District's Mobile Source Incentive Fund (MSIF). AB 923 stipulates that air districts may use the revenues generated by the additional \$2 surcharge for projects eligible under the CMP.



On March 4, 2020, the Board of Directors (Board) authorized Air District participation in Year 22 of the CMP and authorized the Executive Officer/APCO to execute grant agreements and amendments for projects funded with CMP funds or MSIF revenues with individual grant award amounts up to \$100,000.

In 2017, AB 617 directed the CARB, in conjunction with local air districts to establish the Community Air Protection Program (CAPP). AB 617 provides a new community-focused action framework to improve air quality and reduce exposure to criteria air pollutants and toxic air contaminants in communities most impacted by air pollution. AB 617 includes a variety of strategies to address air quality issues in impacted communities, including community-level monitoring, uniform emission reporting across the State, stronger regulation of pollution sources, and incentives for both mobile and stationary sources. Funding for incentives to support the AB 617 effort was approved by the California Legislature beginning in fiscal year ending (FYE) 2018. Funding for the CAPP comes from the State's Greenhouse Gas Reduction Fund (GGRF), which is used to reduce criteria pollutants, toxic air contaminants, and greenhouse gases.

In May 2020, the Governor issued a revised budget that authorized up to \$200 million for a third cycle of CAPP incentive funding. On June 17, 2020, the Board authorized the Air District to accept, obligate, and expend up to \$40 million in year-3 CAPP funding. These funds are primarily distributed through the Air District's Community Health Protection Grant Program to implement projects eligible under the CMP and optionally on-road truck replacements under the Proposition 1B Goods Movement Emission Reduction Program. Staff has also begun working with CARB to expand eligibility to include stationary source projects and projects that are identified as priorities by communities with a State-approved Community Emissions Reduction Program, pursuant to HSC Section 44391.2.

CARB developed the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines in February 2018 that outlines requirements for eligible equipment, e.g., agricultural harvesting equipment, heavy-duty trucks, agricultural pump engines, tractors, and other equipment used in agricultural operations. On October 21, 2019, CARB's Executive Officer approved an update to the FARMER Program Guidelines to include eligibility criteria for demonstration projects. The 2020 California State Budget appropriated \$65 million in Fiscal Year 2019-20 GGRF funds to the CARB for the continued reduction of criteria, toxic, and greenhouse gas emissions from the agricultural sector through the FARMER Program. On November 20, 2019, the Board authorized the Air District's participation in the current cycle of the FARMER program.

In 1991, the California State Legislature authorized the Air District to impose a \$4 surcharge on motor vehicles registered within the nine-county Bay Area to fund projects that reduce on-road motor vehicle emissions within the Air District's jurisdiction. The statutory authority and requirements for the Transportation Fund for Clean Air (TFCA) are set forth in the HSC Sections 44241 and 44242. Sixty percent of TFCA funds are awarded by the Air District to eligible projects and programs implemented directly by the Air District (e.g., Spare the Air program) and to a program referred to as the Regional Fund. Each year, the Board allocates funding and adopts policies and evaluation criteria that govern the expenditure of TFCA monies. The remaining forty

percent of TFCA funds are pass-through funds that are awarded to the designated County Program Manager in each of the nine counties within the Air District's jurisdiction.

On April 15, 2020 and July 15, 2020, the Board authorized funding allocations for use of the sixty percent of the TFCA revenue in FYE 2021, cost-effectiveness limits for Air District-sponsored FYE 2021 programs, and the Executive Officer/APCO to execute grant agreements and amendments for projects with individual grant award amounts up to \$100,000. On June 3, 2020, the Board adopted policies and evaluation criteria for the FYE 2021 Regional Fund program.

Projects with grant award amounts over \$100,000 are brought to the Mobile Source Committee for consideration at least on a quarterly basis. Staff reviews and evaluates grant applications based upon the respective governing policies and guidelines established by the CARB, the Board, and other funding agencies.

## DISCUSSION

### **Carl Moyer Program and Community Health Protection Grant Program:**

For the FYE 2021, the Air District had approximately \$45.6 million available in new CMP, MSIF, Community Health Protection (CHP) Grant Program, and FARMER funds for eligible projects, including approximately \$3.4 million from prior year funds. The Air District accepts project applications on a rolling basis and evaluates them on a first-come, first-served basis.

As of January 26, 2021, the Air District had received or evaluated 81 project applications. Of the applications that were evaluated between December 29, 2020 and January 26, 2021, five eligible projects have proposed grant awards over \$100,000. Four off-road projects will replace six pieces of mobile, diesel-powered agricultural equipment. One school bus project will replace three diesel school buses with electric school buses and charging infrastructure. These projects will reduce over 4.5 tons of NOx, ROG and PM per year. Staff recommends the allocation of \$2,133,926.89 for these projects from a combination of CMP, TFCA, FARMER, Community Health Protection, and MSIF revenues. Attachment 1, Table 1, provides additional information on these projects.

Attachment 2 lists all of the eligible projects that have been awarded by the Air District between July 1, 2020 and January 26, 2021, and includes information about equipment category, award amounts, estimated emissions reductions, and county location. To date, approximately 59% of the funds<sup>1</sup> have been awarded or allocated to low-income residents or to projects that reduce emissions in Air District designated Community Air Risk Evaluation (CARE) areas or disadvantaged (Senate

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<sup>1</sup> For the purpose of determining whether funding was awarded or allocated to low-income residents or to projects that reduce emissions in Air District designated Community Air Risk Evaluation (CARE) areas or disadvantaged (SB 535) and/or low-income (AB 1550) communities, the total amount of funds awarded and allocated to date does not include amounts awarded to regional projects where all communities receive the benefit or amounts awarded to projects where the location of the benefit is unknown until additional information becomes available.

Bill (SB) 535) and/or low-income (AB 1550) communities. This percentage will change over time as the remaining funds are awarded later in the fiscal year and as more complete information about the location of projects and program participants becomes available.

**Transportation Fund for Clean Air Program:**

For the FYE 2021, the Air District had approximately \$31.44 million in TFCA monies available for eligible projects and programs consisting of new and prior-year revenues. The Air District accepts project applications for certain project categories on a rolling basis and evaluates them on a first-come, first-served basis.

As of January 26, 2021, the Air District had received six project applications, in addition to a project that is discussed below. Besides this project, there were no other projects evaluated between December 29, 2020, and January 26, 2021, with proposed grant awards over \$100,000.

Staff evaluated one school bus project, which is recommended in the CMP section above, that proposes to replace three diesel school buses with electric school buses and install charging infrastructure (Project #21MOY211). Staff is recommending the allocation of up to \$732,552 in TFCA funding as matching funds for this project because the three buses do not qualify for full funding under the CMP guidelines. This project benefits SB 535 and AB 1550 communities in the East Palo Alto area. Project #21SBP211 is recommended for \$560,575.00 in CMP, CHP and MSIF funding leaving a shortfall of approximately \$732,552, which is recommended for co-funding from the TFCA.

This action requires a waiver of one Air District Board-adopted TFCA Regional Fund policy:

- TFCA Regional Fund Policy #2 Cost-Effectiveness: Although the FYE 2021 Regional Fund policies allow for 100% of the cost of school bus projects to be paid for with grant funding the cost-effectiveness limit would be exceeded for two of the three buses. The two buses to be replaced are model year 2007 diesel buses and will be replaced with two electric zero-emission buses.

Table 1 below provides additional information on the proposed awards for this school bus projects.

Table 1: Proposed award for school bus project #21SBP211

Project Description	3 buses and charging infrastructure
Total Project Cost	\$1,293,127
Proposed CMP/CHP/MSIF Award	\$560,575
Proposed TFCA Award (2 buses only)	\$732,552
<b>Total Proposed Award</b>	<b>\$1,293,127</b>

If the Board approves this recommendation, the emissions reductions would be entirely reported under the CMP program to prevent double counting.

Attachment 3, Table 1, lists all eligible TFCA projects that have been evaluated and awarded between July 1, 2020 and January 26, 2021, including information about the project category, award amount, estimated emissions reduction, and county location. To date, approximately 88% of the funds<sup>2</sup> have been awarded or allocated to low-income residents or to projects that reduce emissions in Air District designated Community Air Risk Evaluation (CARE) areas or disadvantaged (SB 535) and/or low-income (AB 1550) communities. This percentage will change over time as the remaining funds are awarded later in the fiscal year and as more complete information about the location of projects and program participants becomes available.

#### BUDGET CONSIDERATION / FINANCIAL IMPACT

None. The Air District distributes the CMP, MSIF, Community Health Protection Grant Program, and TFCA funding to project sponsors on a reimbursement basis. Funding for administrative costs is provided by each funding source.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

Prepared by: Alona Davis and Linda Hui

Reviewed by: Minda Berbeco, Chengfeng Wang, and Karen Schkolnick

Attachment 1: Projects with grant awards greater than \$100,000

Attachment 2: CMP/MSIF, FARMER and Community Health Protection Grant Program projects awarded and allocated between 7/1/20 and 1/26/21

Attachment 3: TFCA projects awarded and allocated projects between 7/1/20 and 1/26/21

Attachment 4: Summary of funding awarded and allocated between 7/1/20 and 1/26/21

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<sup>2</sup> For the purpose of determining whether funding was awarded or allocated to low-income residents or to projects that reduce emissions in Air District designated Community Air Risk Evaluation (CARE) areas or disadvantaged (SB 535) and/or low-income (AB 1550) communities, the total amount of funds awarded and allocated to date does not include amounts awarded to regional projects where all communities receive the benefit or amounts awarded to projects where the location of the benefit is unknown until additional information becomes available.

## AGENDA 4 - ATTACHMENT 1

Table 1 - Carl Moyer Program/ Mobile Source Incentive Fund, FARMER, and Community Health Protection Grant Program projects with grant awards greater than \$100k (Evaluated between 12/29/20 and 1/26/21)

Project #	Applicant name	Project Category	Project Description	Proposed contract award	Total project cost	Emission Reductions (Tons per year)			County
						NO <sub>x</sub>	ROG	PM	
22MOY43*	Atlas Vineyard Management, Inc.	Ag/Off-Road	Replacement of one diesel ag tractor, one diesel ag tractor/loader, and one diesel ag tractor/crawler with three Tier 4 final diesel ag tractors	\$ 128,300	\$ 175,885	0.158	0.033	0.024	Napa
22MOY27	Mark and Lisa Shelley	Ag/Off-Road	Replacement of one Tier 0 ag tractor with a Tier 4 final ag tractor	\$ 223,500	\$ 279,498	1.205	0.111	0.069	Sonoma
22MOY61	Larry's Produce LLC	Ag/Off-Road	Replacement of one Tier 1 ag tractor with a Tier 4 final ag tractor	\$ 141,600	\$ 177,108	0.360	0.039	0.023	Solano
22MOY37	Morrison Chopping, LLC	Ag/Off-Road	Replacement of one Tier-0 ag tractor with one Tier-4 final ag tractor	\$ 347,400	\$ 434,373	2.073	0.199	0.108	Sonoma
21SBP211**	Menlo Park City School District	School Bus	Replacement of three diesel school buses with electric school buses and charging infrastructure	\$ 1,293,127	\$ 1,293,127	0.160	0.011	0.001	San Mateo
<b>5 Projects</b>				<b>\$ 2,133,927</b>	<b>\$ 2,359,991</b>	<b>3.955</b>	<b>0.392</b>	<b>0.226</b>	

\* This recommendation is for an increased award of \$12,500 for a piece of equipment that is in addition to a prior award to Atlas Vineyard Management, Inc., approved for \$115,800 on 1/20/21 for three pieces of equipment.

\*\*The award amount for this project includes a total of \$732,552 in TFCA funds.

## AGENDA 4 - ATTACHMENT 2

*CMP/MSIF, FARMER and Community Health Protection Grant Program projects awarded and allocated  
(between 7/1/20 and 1/26/21)*

Project #	Equipment category	Project type	# of engines	Proposed contract award	Applicant name	Emission Reductions (Tons per year)			Board approval date	CARE Area	AB1550/SB535 Area	County
						NOx	ROG	PM				
21MOY203	Ag/ off-road	Equipment replacement	1	\$ 60,000.00	Rider Vineyards dba Joseph Rider	0.104	0.005	0.006	APCO	No	No	Napa
21MOY198	On-road	Equipment replacement	1	\$ 10,000.00	EPP Transport, LLC	0.181	0.015	0.000	APCO	Yes	Yes	Alameda
21MOY206	Ag/ off-road	Equipment replacement	2	\$ 90,840.00	Hudson Vineyards LLC	0.162	0.005	0.009	APCO	No	No	Napa
21MOY210	On-road	Equipment replacement	1	\$ 20,000.00	Samuel's Trucking	0.466	0.039	0.003	APCO	Yes	Yes	Alameda
21MOY217	On-road	Equipment replacement	1	\$ 25,000.00	Daxin Trucking, LLC.	0.566	0.048	0.000	APCO	Yes	Yes	Alameda
21MOY208	Ag/ off-road	Equipment replacement	2	\$ 76,300.00	M. German & Son Partnership	0.345	0.055	0.028	APCO	No	No	Solano
21MOY209	Ag/ off-road	Equipment replacement	1	\$ 48,800.00	Lum Family Farms Inc	0.145	0.026	0.018	APCO	No	No	Solano
21MOY214	Ag/ off-road	Equipment replacement	5	\$ 255,400.00	Robledo Vineyard Mgmt LLC	0.563	0.092	0.061	10/7/2020	No	No	Sonoma/ Napa
21MOY212	On-road	Equipment replacement	1	\$ 55,000.00	Ram Harak & Son Trucking	0.352	0.030	0.002	APCO	Yes	Yes	Alameda
21MOY235	Ag/ off-road	Equipment replacement	1	\$ 82,580.00	Mertens Dairy	0.213	0.038	0.028	APCO	No	No	Sonoma
21MOY228	Ag/ off-road	Equipment replacement	3	\$ 130,200.00	Turnbull Wine Cellars	0.191	0.037	0.026	10/7/2020	No	No	Napa
21MOY239	Ag/ off-road	Equipment replacement	4	\$ 170,100.00	Michael Wolf Vineyard Services Inc.	0.206	0.016	0.021	10/7/2020	No	Yes	Napa
21MOY121	On-road	Equipment replacement	1	\$ 15,000.00	Prabhjit	0.321	0.027	0.000	APCO	No	Yes	San Joaquin
21MOY218	Ag/ off-road	Equipment replacement	2	\$ 76,100.00	Richard A. Zimmerman	0.194	0.030	0.017	APCO	No	No	Solano
21MOY240	On-road	Equipment replacement	1	\$ 20,000.00	Sunny Trucking	0.301	0.025	0.000	APCO	No	Yes	San Joaquin
21MOY227	On-road	Equipment replacement	1	\$ 40,000.00	Streamline Trans Inc., dba DM Trucking	0.836	0.071	0.006	APCO	Yes	Yes	Alameda
21MOY246	On-road	Equipment replacement	1	\$ 30,000.00	Ali Transportation	0.375	0.032	0.000	APCO	Yes	No	Alameda
21MOY241	Ag/ off-road	Equipment replacement	1	\$ 62,950.00	Wight Vineyard Management, Inc.	0.126	0.008	0.008	APCO	No	Yes	Napa
21MOY102	Off-Road	Equipment replacement	1	\$ 48,850.00	San Mateo Union High School District	0.184	0.041	0.033	APCO	No	Yes	San Mateo
21MOY166	Ag/ off-road	2-for-1 Equipment Replacement	1	\$ 39,400.00	Beckstoffer Vineyards Napa Valley	0.250	0.037	0.025	APCO	No	No	Napa
21MOY223	On-road	Equipment replacement	1	\$ 30,000.00	Oakland Container Trucking	0.525	0.038	0.000	APCO	Yes	Yes	Alameda

## AGENDA 4 - ATTACHMENT 2

*CMP/MSIF, FARMER and Community Health Protection Grant Program projects awarded and allocated  
(between 7/1/20 and 1/26/21)*

Project #	Equipment category	Project type	# of engines	Proposed contract award	Applicant name	Emission Reductions (Tons per year)			Board approval date	CARE Area	AB1550/SB535 Area	County
						NOx	ROG	PM				
21MOY265	Ag/ off-road	Equipment replacement	1	\$ 182,700.00	Paul P. Bianchi, Inc	1.251	0.138	0.079	11/18/2020	No	No	Sonoma
21MOY245	Ag/ off-road	Equipment replacement	4	\$ 143,400.00	Ilsey Brothers Farming, LLC	0.209	0.078	0.035	11/18/2020	No	No	Napa
21MOY236	Ag/ off-road	Equipment replacement	1	\$ 604,150.00	Morrison Cazares Boyer Construction inc.	1.060	0.098	0.056	11/18/2020	No	No	Napa
21MOY232	Off-Road	Equipment replacement	1	\$ 125,000.00	L.H. Voss Materials	0.725	0.036	0.018	11/18/2020	Yes	Yes	Alameda/ Contra Costa
21SBP196	School Bus	Equipment replacement	2	\$ 260,707.00	Fairfield-Suisun Unified School District	0.113	0.001	0.000	11/18/2020	No	Yes	Solano
21MOY249	On-road	Equipment replacement	1	\$ 25,000.00	Jeevan Trucking Inc	0.478	0.040	0.000	APCO	Yes	Yes	Alameda
21MOY221	Ag/ off-road	Equipment replacement	2	\$ 91,650.00	Robert J Camozzi II	0.211	0.024	0.021	APCO	No	No	Sonoma
21MOY257	On-road	Equipment replacement	1	\$ 25,000.00	Harpinderpal Singh	0.466	0.035	0.000	APCO	Yes	Yes	Alameda
21MOY238	Ag/ off-road	Equipment replacement	1	\$ 64,700.00	Foley Family Farms, LLC	0.141	0.018	0.012	APCO	No	No	Sonoma
21MOY281	Ag/ off-road	Equipment replacement	1	\$ 42,200.00	Palm Drive Vineyards LLC	0.044	0.005	0.006	APCO	No	No	Sonoma
21MOY233	Ag/ off-road	Equipment replacement	1	\$ 62,000.00	RR Farms	0.071	0.011	0.008	APCO	No	No	Sonoma
21MOY272	Ag/ off-road	Equipment replacement	1	\$ 58,000.00	StoneMar Properties, LLC	0.100	0.005	0.006	APCO	No	No	Contra Costa
21MOY280	Ag/ off-road	Equipment replacement	1	\$ 64,400.00	Barbour Vineyards Management LLC	0.113	0.007	0.007	APCO	No	No	Napa
21MOY274	Ag/ off-road	Equipment replacement	3	\$ 120,500.00	Green Valley Cattle Co.	0.205	0.035	0.021	12/16/2020	No	No	Solano
21MOY251	Ag/ off-road	Equipment replacement	1	\$ 50,300.00	Wild Oak Vineyards LLC	0.086	0.019	0.015	APCO	No	No	Solano
22MOY2	On-road	Equipment replacement	1	\$ 35,000.00	Mandeep Singh	0.337	0.029	0.000	APCO	Yes	Yes	Alameda
22MOY4	Marine	Engine Replacement	1	\$ 128,000.00	Happy Hooker Sportfishing	0.307	-0.008	0.019	12/16/2020	Yes	Yes	Alameda
21MOY234	On-road	Engine Replacement	1	\$ 35,000.00	Jianye Trucking Inc.	0.674	0.057	0.000	APCO	Yes	Yes	Alameda
21MOY242	On-road	Engine Replacement	1	\$ 30,000.00	OJM Trucking Inc.	0.620	0.053	0.000	APCO	Yes	Yes	Alameda
22MOY3	Marine	Engine Replacement	2	\$ 1,166,000.00	San Francisco Water Emergency Transportation Authority	5.570	0.500	0.190	12/16/2020	Yes	Yes	Alameda/ Contra Costa/ San Francisco
21MOY172	Ag/ off-road	Engine Replacement	2	\$ 512,750.00	George Chiala Farms, Inc.	1.656	0.154	0.089	12/16/2020	No	No	Santa Clara
22MOY6	Ag/ off-road	Engine Replacement	1	\$ 185,400.00	Mazzetta Dairy	1.155	0.106	0.066	12/16/2020	No	No	Sonoma
21MOY226	Off-Road	Engine Replacement	2	\$ 141,000.00	Columbia Electric, Inc.	0.532	0.038	0.035	12/16/2020	Yes	Yes	Alameda/ Contra Costa/ Santa Clara

## AGENDA 4 - ATTACHMENT 2

*CMP/MSIF, FARMER and Community Health Protection Grant Program projects awarded and allocated  
(between 7/1/20 and 1/26/21)*

Project #	Equipment category	Project type	# of engines	Proposed contract award	Applicant name	Emission Reductions (Tons per year)			Board approval date	CARE Area	AB1550/SB535 Area	County
						NOx	ROG	PM				
21MOY277	Off-Road	Engine Replacement	5	\$ 345,500.00	R.J.S. & Associates, Inc.	1.815	0.171	0.107	12/16/2020	Yes	Yes	Santa Clara/ Alameda
22MOY13	Marine	Engine Replacement	1	\$ 140,000.00	Lion Fisheries, LLC.	0.898	-0.013	0.036	12/16/2020	No	No	San Mateo
21MOY237	Ag/ off-road	Engine Replacement	2	\$ 85,300.00	Dirt Farmer & Company, A California Corporation	0.272	0.054	0.037	APCO	No	No	Sonoma
21MOY225	On-road	Engine Replacement	1	\$ 35,000.00	Longs Mach	0.453	0.034	0.000	APCO	Yes	Yes	Alameda
21MOY264	On-road	Equipment replacement	1	\$ 60,000.00	McKim Corp	2.260	0.160	0.014	APCO	No	Yes	Santa Clara
21MOY261	On-road	Equipment replacement	1	\$ 20,000.00	Dhillon Trucking	0.654	0.097	0.029	APCO	Yes	No	Alameda
22MOY15	On-road	Equipment replacement	1	\$ 35,000.00	NCH Trucking	0.635	0.054	0.005	APCO	Yes	No	Alameda
22MOY16	On-road	Equipment replacement	1	\$ 30,000.00	Sahara Logistics INC DBA Ibrahim Trucking	0.410	0.035	0.000	APCO	Yes	No	Alameda
21MOY243	On-road	Equipment replacement	1	\$ 40,000.00	Gill Freightliner	0.684	0.058	0.000	APCO	Yes	Yes	Alameda
22MOY17	Off-Road	Equipment replacement	2	\$ 103,100.00	Robledo Inc.	0.313	0.048	0.028	1/20/2021	No	No	Solano
22MOY34	On-road	Equipment replacement	1	\$ 55,000.00	26 Pawar Corporation	1.117	0.084	0.007	APCO	Yes	Yes	Santa Clara
22MOY1	Ag/ off-road	Equipment replacement	1	\$ 33,000.00	Gerald & Kristy Spaletta	0.046	0.044	0.011	APCO	No	No	Sonoma
21MOY275	Off-Road	Equipment replacement + Infrastructure	2	\$ 90,100.00	Pine Cone Lumber Co., Inc.	0.068	0.011	0.004	APCO	No	No	Santa Clara
21MOY271	On-road	Equipment Replacement	1	\$ 30,000.00	Sarbjit Singh Deol	0.325	0.028	0.000	APCO	Yes	Yes	Alameda
22MOY10	On-road	Equipment Replacement	1	\$ 10,000.00	Lam Le	0.153	0.012	0.000	APCO	Yes	Yes	Alameda
21MOY278	On-road	Equipment Replacement	1	\$ 40,000.00	Gurtej Atwal	0.764	0.052	0.006	APCO	No	No	Alameda
22MOY8	On-road	Equipment Replacement	1	\$ 25,000.00	MP Trucking	0.364	0.031	0.000	APCO	No	No	San Joaquin
22MOY35	On-road	Equipment Replacement	1	\$ 35,000.00	Sahara Logistics INC DBA Ibrahim Trucking	0.391	0.033	0.000	APCO	Yes	No	Alameda
21MOY285	On-road	Equipment Replacement	1	\$ 40,000.00	G S Trucking	0.658	0.056	0.004	APCO	Yes	Yes	Alameda
22MOY38	On-road	Equipment Replacement	1	\$ 20,000.00	Primo Express Transport, Inc	0.394	0.033	0.003	APCO	Yes	Yes	Contra Costa
21MOY283	On-road	Equipment Replacement	1	\$ 40,000.00	Sall Trucking	0.943	0.156	0.008	APCO	Yes	Yes	Alameda
22MOY25	On-road	Equipment Replacement	1	\$ 40,000.00	Sarbjit S Bains	0.687	0.058	0.005	APCO	No	Yes	Santa Clara
22MOY26	On-road	Equipment Replacement	1	\$ 25,000.00	Dharmender Singh Barn	0.530	0.045	0.000	APCO	Yes	No	Alameda



## AGENDA 4 - ATTACHMENT 2

*CMP/MSIF, FARMER and Community Health Protection Grant Program projects awarded and allocated  
(between 7/1/20 and 1/26/21)*

Project #	Equipment category	Project type	# of engines	Proposed contract award	Applicant name	Emission Reductions (Tons per year)			Board approval date	CARE Area	AB1550/SB535 Area	County
						NOx	ROG	PM				
22MOY33	Off-Road	Equipment Replacement	3	\$ 161,850.00	Cornerstone Certified Vineyard	0.396	0.068	0.051	1/20/2021	No	No	Sonoma
22MOY43	Off-Road	Equipment Replacement	3	\$ 128,300.00	Atlas Vineyard Management, Inc.	0.158	0.033	0.024	TBD	No	No	Napa
22MOY18	Off-Road	Equipment Replacement	2	\$ 259,100.00	Willotta Ranch	1.073	0.130	0.073	1/20/2021	No	No	Solano
22MOY39	Off-Road	Equipment Replacement	1	\$ 53,200.00	Romero Vineyard Management LLC	0.066	0.016	0.012	APCO	No	No	Napa
22MOY19	Marine	Engine Replacement	6	\$ 3,715,000.00	San Francisco Water Emergency Transportation Authority	16.822	1.500	0.562	1/20/2021	Yes	Yes	Alameda
22MOY30	Marine	Engine Replacement	2	\$ 298,000.00	A.C. Fishing Charters Inc., dba Tigerfish Sportfishing	0.515	0.002	0.027	1/20/2021	No	No	Alameda
22MOY21	Marine	Engine Replacement	1	\$ 120,000.00	Jerry Harold Pemberton	0.244	0.003	0.009	1/20/2021	No	No	San Mateo
22MOY24	Ag/ off-road	Engine Replacement	1	\$ 139,900.00	Stanley J Poncia	0.256	0.047	0.036	1/20/2021	No	Yes	Sonoma
21MOY134	Ag/ off-road	Equipment replacement	1	\$ 34,000.00	Dutton Ranch Corp.	0.061	0.003	0.003	APCO	No	No	Sonoma
22MOY46	Ag/ off-road	Equipment replacement	2	\$ 93,800.00	Shafer Vineyards	0.208	0.057	0.024	APCO	No	No	Napa
22MOY61	Ag/ off-road	Equipment replacement	1	\$ 141,600.00	Larry's Produce LLC	0.360	0.039	0.023	TBD	No	No	Solano
22MOY27	Ag/ off-road	Equipment replacement	1	\$ 223,500.00	Mark and Lisa Shelley	1.205	0.111	0.069	TBD	No	No	Sonoma
21SBP211	School Bus	Equipment replacement + Infrastructure	3	\$ 560,575.00	Menlo Park City School District	0.160	0.011	0.001	TBD	No	Yes	San Mateo
22MOY37	Ag/ off-road	Equipment replacement	1	\$ 347,400.00	Morrison Chopping, LLC	2.073	0.199	0.108	TBD	No	No	Sonoma
<b>81 Projects</b>			<b>124</b>	<b>\$ 13,192,602.00</b>		<b>61.163</b>	<b>5.751</b>	<b>2.299</b>				

## AGENDA 4 - ATTACHMENT 3

Table 1 - TFCA projects awarded and allocated (between 7/1/20 and 1/26/21)

Project #	Project Category	Project Description	Award Amount	Applicant Name	Emission Reductions (Tons per year)			Board/ APCO Approval Date	CARE Area	AB1550/ SB535 Area	County
					NO <sub>x</sub>	ROG	PM				
20R30	Bicycle Facilities	Upgrade 12.6 miles of Class II bikeways to Class IV in Fremont	\$130,000	City of Fremont	0.005	0.006	0.014	7/15/20	No	No	Alameda
20R31	Bicycle Facilities	Install and maintain 520 electronic bicycle locker spaces at 22 Caltrain stations in San Francisco, San Mateo and Santa Clara counties	\$1,041,000	Peninsula Corridor Joint Powers Board	0.097	0.139	0.306	7/15/20	No	No	Multi-County
20R32	Bicycle Facilities	Install 1.9 miles of Class IV bikeways in Hayward	\$200,790	City of Hayward	0.040	0.055	0.134	10/7/20	Yes	Yes	Alameda
21HMF01	LD Vehicles	Lease and operate 200 light-duty electric vehicles	\$1,000,000	Flexdrive Services, LLC	0.241	0.132	0.297	7/15/20	Yes	Yes	Regional
21R02	LD Vehicles	Vehicle Buy Back Program	\$300,000	BAAQMD	N/A	N/A	N/A	6/3/20	TBD*	TBD*	Regional
21R04	LD Vehicles	Clean Cars For All	\$10,000,000	BAAQMD	N/A	N/A	N/A	7/15/20	TBD*	TBD*	Regional
20R35	On-road Trucks & Buses	Purchase four electric delivery vans and scrap six existing vehicles	\$116,000	Santa Clara VTA	0.061	0.017	0.005	11/18/20	TBD*	TBD*	Santa Clara
20R14	Trip Reduction	State Route 37 Rideshare	\$184,500	Solano Transportation Authority	0.104	0.113	0.169	12/16/20	No	No	Multi-County
21R01	Trip Reduction	Enhanced Mobile Source & Commuter Benefits Enforcement	\$850,000	BAAQMD	N/A	N/A	N/A	7/15/20	N/A	N/A	Regional
21R03	Trip Reduction	Spare The Air/Intermittent Control Programs	\$2,290,000	BAAQMD	N/A	N/A	N/A	6/3/20	N/A	N/A	Regional
21RSB01	School Bus	Match funding for Project # 21SBP211 for the replacement of three diesel buses with electric school buses	\$732,552	BAAQMD	N/A	N/A	N/A	Pending	No	Yes	San Mateo

**Total**                      **11 Projects**                      **\$16,844,842**                      **0.548**    **0.463**    **0.924**

\*Funds have been allocated to these programs and project and results will be determined at the end of proejct period

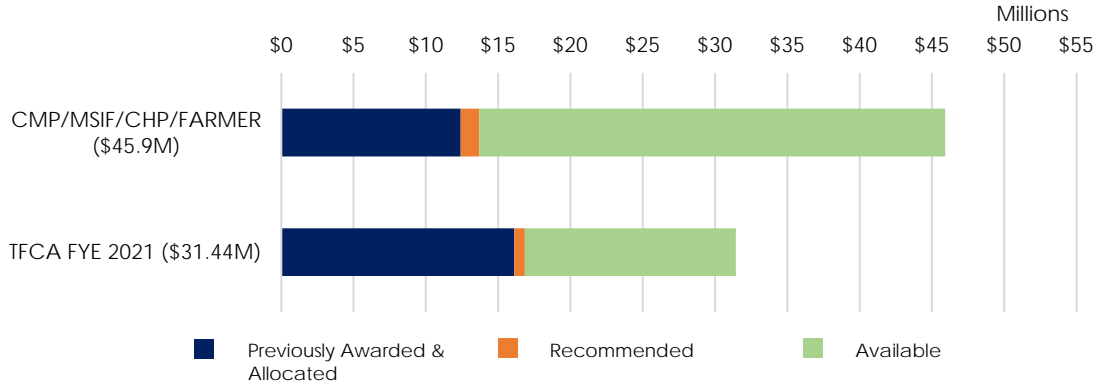
# AGENDA 4 - ATTACHMENT 4

Figures 1-3 Summary of funding awarded and allocated between 7/1/20 and 1/26/21 from the following revenue sources:

- Carl Moyer Program (CMP)
- Community Health Protection Program (CHP)
- Funding Agricultural Replacement Measures for Emission Reductions (FARMER)
- Mobile Source Incentive Fund (MSIF)
- Transportation Fund for Clean Air (TFCA)

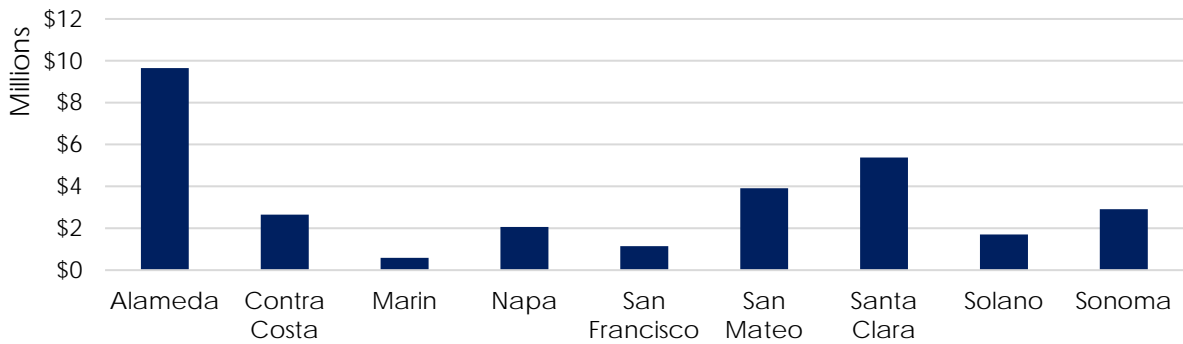
**Figure 1. Status of FYE 2021 funding by source**

includes funds awarded, recommended for award, and available



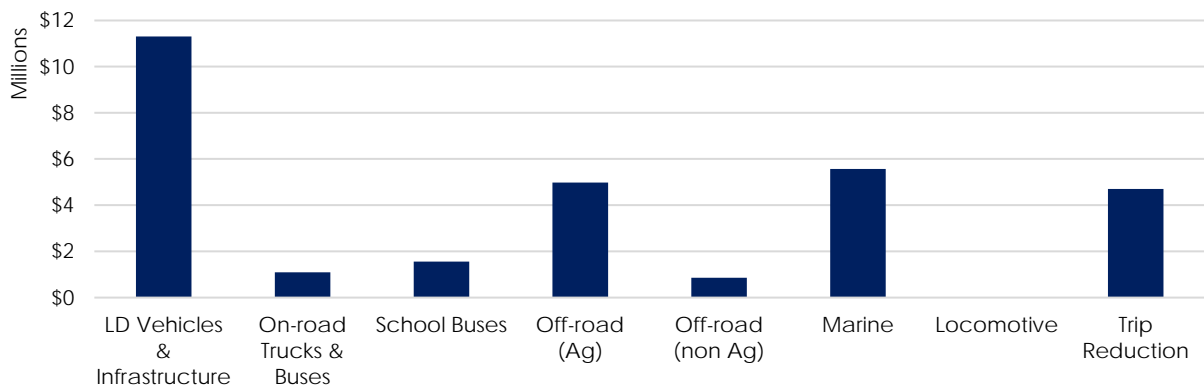
**Figure 2. Funding awarded and allocated in FYE 2021 by county:**

includes funds awarded & recommended for award



**Figure 3. Funding awarded and allocated in FYE 2021 by project category**

includes funds awarded & recommended for award



**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

## Memorandum

To: Chairpersons David Canepa and Katie Rice and Members  
of the Mobile Source and Climate Impacts Committee

From: Jack P. Broadbent  
Executive Officer/APCO

Date: February 19, 2021

Re: Report on Air District Grant Programs and Funds Awarded in 2020

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**RECOMMENDED ACTION**

None; receive and file.

**BACKGROUND**

The Bay Area Air Quality Management District (Air District) aims to create a healthy breathing environment for every Bay Area resident while protecting and improving public health, air quality, and the global climate. Since its formation in 1955 as the first regional air quality agency in the nation, the Air District has led the effort to reduce air pollution and GHG emissions and to protect public health in the Bay Area.

In the Bay Area, mobile sources account for more than half of reactive organic gases (ROG), nitrogen oxides (NO<sub>x</sub>), and particulate matter (PM) emissions, and over 40% of the greenhouse gases (GHG) generated<sup>1</sup>. For this reason, reducing emissions from mobile sources is essential to helping the Bay Area attain State and Federal ambient air quality standards and meet the Air District's GHG reduction goals.

While the Air District is tasked with and has the authority to regulate stationary sources of air pollution in the nine counties that surround San Francisco Bay, it does not have the authority to regulate emissions from mobile sources. These sources are regulated by federal and state agencies, US Environmental Protection Agency and California Air Resources Board (CARB), respectively. Since 1992, the Air District has been achieving emissions reductions from mobile sources beyond those required by regulations primarily through its grant programs, which work to incentivize the accelerated deployment of clean air vehicles and equipment, to encourage commuters to shift modes to public transit and active transportation, and to demonstrate advanced zero- and near-zero emissions technologies.

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<sup>1</sup> BAAQMD 2017 Clean Air Plan, Emissions Inventory for year 2015. Mobile Sources include: Passenger Cars, Light-, Medium-, Light-Heavy-, Medium-Heavy-, Heavy-Heavy-Duty Trucks, School/Urban Buses, Motor-Homes, Motorcycles, Lawn & Garden Equipment, Transportation Refrigeration Units, Agricultural Equipment, Construction and Mining Equipment, Industrial Equipment, Light Duty Commercial Equipment, Trains, Off-Road Recreational Vehicles, Ships, Commercial Harbor Craft, Recreational Boats, and Airport Ground Support Equipment.

The Air District's main grant programs are funded through the Transportation Fund for Clean Air (TFCA) Program, Carl Moyer Program, Mobile Source Incentive Fund (MSIF) Program. More recently, the Air District has also received funding from the Community Air Protection Program (created by the State legislature through the adoption of AB 617), Funding for Agricultural Replacement Measures for Emission Reductions (FARMER), and California I-Bond Goods Movement Program. These programs accumulate annually via fees, bond sales, and Cap-and-Trade auction proceeds that are distributed by the Air District pursuant to the authorizing guidelines and policies. Staff also works to secure new sources of funding, e.g., settlement funding, such as the Volkswagen NOx Mitigation Trust, and competitive solicitation, e.g., from the CARB, U.S. Environmental Protection Agency, and others, to achieve further reduction of emissions in the region.

In addition to the programs discussed above that target mobile source emissions, the Air District has recently developed incentive programs that target emissions reductions from stationary sources. The Climate Tech Finance Program helps Bay Area facilities to adopt emerging technologies that reduce greenhouse gas emissions through subsidized financing program. Other small grant programs provide funding to Bay Area community organizations and public agencies to take action for immediate greenhouse gas emissions reductions and promote long-term personal and community environmental action.

## DISCUSSION

Over the past 30 years, the amount of revenue available to the Air District for distribution has significantly increased. In calendar year 2020, the Air District awarded more than \$75 million in funding to eligible projects that improve air quality and reduce greenhouse gases. These projects will achieve extra and early emission reductions: over 300 tons of criteria pollutant emissions per year, including oxides of nitrogen, reactive organic gases, and particulate matter. Attachment 1 summarizes the projects that were awarded by the Air District in 2020.

The Air District's grant programs also work to improve community health by prioritizing awards to projects that reduce diesel pollution, air toxics, and exposure to air pollutants in neighborhoods that are most impacted by air pollution. In 2020, over 60% of the funds awarded by the Air District were awarded to projects benefiting disadvantaged and low-income communities, Air District designated Community Air Risk Evaluation (CARE) areas, and low-income residents. Certain programs have even higher targets for distribution to projects benefiting communities most impacted by air pollution: In 2020 the Air District awarded more than \$26 out of \$27 million, or 97% of available funds, through its Community Health Protection (CHP) Grant Program to projects benefiting disadvantaged and low-income communities, including West Oakland and Richmond. These projects reduce toxic air emissions and ozone-forming pollutants from older, higher-polluting diesel engines, including medium- and heavy-duty trucks and buses, mobile construction and industrial equipment, marine vessels, airport ground-support equipment, port cargo-handling equipment, locomotives, and school buses.

The Air District also prioritizes replacement of combustion technology with zero-emission alternatives whenever that technology is commercially available. With recent advances in the commercialization of zero emission technologies, in 2020 the Air District awarded \$22 out of \$75

million, or nearly 30% of the Air District's grant funding, to projects that will deploy zero-emission technologies in the medium- and heavy-duty sector. This funding will support the replacement of more than 90 pieces of diesel equipment with zero-emission alternatives, including 41 transit and shuttle buses, 21 school buses, 11 heavy- and medium-duty trucks/delivery vans, 11 piece of cargo handling and airport ground support equipment, and 7 agricultural tractors. This funding will also support the installation of 50 charging stations.

In 2020 the Air District also awarded \$13 out of \$75 million, or nearly 17% of the Air District's grant funding, through its Clean Cars for All and Vehicle Buy Back programs, to Bay Area residents who retired older passenger vehicles and light-duty trucks.

Finally, the Air District also provides incentives to help commuters shift from single-occupancy vehicle use by funding first- and last-mile connection services, bikeway construction, installation of secure bicycle-parking spaces, and Air District-sponsored Spare the Air and Commuter Benefits programs. In 2020, approximately \$7 million was awarded to trip-reduction projects that will build more than 18 miles of protected bikeways, install 600 secure bicycle-parking spaces, and provide shuttle and ridesharing services. Funding for these projects and programs was provided through the Transportation Fund for Clean Air (TFCA) program.

Looking forward, in 2021 the Air District will be administering more than \$140 million that includes \$100 million available to continue incentivizing earlier actions to reduce air emissions in the Bay Area and \$40 million that is available state-wide through the Volkswagen NOx Mitigation Trust Fund.

The presentation to the Committee will include a discussion of the impact and scale of the Air District's grant programs, including amount of funds awarded and estimated emissions reduced in 2020, challenges faced by the Air District's grant programs and opportunities, and grant program priorities for calendar year 2021.

#### BUDGET CONSIDERATION / FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent  
Executive Officer/APCO

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Attachment 1: List of Projects Awarded in 2020

## AGENDA 5 - ATTACHMENT 1

### *List of Projects Awarded in 2020*

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
Bicycle Facilities	20R15	Install 0.26 miles of Class IV bikeway in San Leandro	\$ 220,000	Alameda	Yes
Bicycle Facilities	20R27	Install and maintain 36 electronic bicycle lockers at the Seaplane Lagoon Ferry Terminal, Harbor Ferry Terminal, and Alameda City Hall	\$ 88,000	Alameda	Yes
Bicycle Facilities	20R30	Upgrade 12.6 miles of Class II bikeways to Class IV in Fremont	\$ 130,000	Alameda	No
Bicycle Facilities	20R32	Install 1.9 miles of Class IV bikeways in Hayward	\$ 200,790	Alameda	Yes
Climate Tech Finance	Climate Tech Finance	Solar+battery-enabled microgrids with integrated energy management software	\$ 100,000	Alameda	No
CPM	21-ALA	County Program Manager Pass-through	\$ 2,078,522	Alameda	Not Applicable
Off-Road	21MOY132	Installation of five battery charging stations and associated infrastructure to support five electric utility tractor rigs at the Port of Oakland.	\$ 298,886	Alameda	Yes
Off-Road	21MOY156	Engine replacement	\$ 166,000	Alameda	Yes
Off-Road	21MOY169	Engine replacement	\$ 164,000	Alameda	Yes
Off-Road	22MOY4	Engine Replacement	\$ 128,000	Alameda	Yes
On-Road	19RFG20	Purchase and operate two electric terminal tractors	\$ 29,780	Alameda	Yes
On-Road	19RFG20	Purchase and operate 2 electric terminal tractors	\$ 102,390	Alameda	Yes
On-Road	19RFG21	Purchase and operate 15 battery-electric school buses	\$ 276,200	Alameda	Yes

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
On-Road	19RFG21	Purchase and operate 15 battery-electric school buses	\$ 173,800	Alameda	Yes
On-Road	19RFG23	Scrap and replace 7 light-duty vehicles with zero-emission vehicles, scrap and replace 1 heavy-duty shuttle with an electric shuttle, purchase 8 light-duty electric vehicles to add to the fleet, and install 14 dual-port level 2 charging stations	\$ 33,700	Alameda	Yes
On-Road	19RFG23	Scrap and replace 7 light duty vehicles with zero emission vehicles, scrap and replace 1 heavy duty shuttle with an electric shuttle, purchase 8 light duty vehicles to add to the fleet, and install 14 dual port level 2 charging stations	\$ 67,214	Alameda	Yes
On-Road	19RFG24	Purchase 4 new electric light duty vehicles	\$ 9,200	Alameda	Yes
On-Road	19RFG24	Purchase and operate 4 new light-duty electric vehicles	\$ 25,286	Alameda	Yes
On-Road	21MOY108	Equipment replacement	\$ 26,750	Alameda	Yes
On-Road	21MOY110	Equipment replacement	\$ 40,000	Alameda	Yes
On-Road	21MOY130	school buses	\$ 50,000	Alameda	Yes
On-Road	21MOY143	Equipment replacement	\$ 49,000	Alameda	Yes
On-Road	21MOY149	Replacement of diesel buses with 40 zero-emission buses and the associated infrastructure.	\$ 13,072,800	Alameda	Yes
On-Road	21MOY198	Equipment replacement	\$ 10,000	Alameda	Yes
On-Road	21MOY210	Equipment replacement	\$ 20,000	Alameda	Yes
On-Road	21MOY212	Equipment replacement	\$ 40,000	Alameda	Yes
On-Road	21MOY217	Equipment replacement	\$ 25,000	Alameda	Yes
On-Road	21MOY223	Equipment replacement	\$ 30,000	Alameda	Yes
On-Road	21MOY225	Engine Replacement	\$ 35,000	Alameda	Yes
On-Road	21MOY227	Equipment replacement	\$ 40,000	Alameda	Yes



Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
On-Road	21MOY234	Engine Replacement	\$ 35,000	Alameda	Yes
On-Road	21MOY242	Engine Replacement	\$ 30,000	Alameda	Yes
On-Road	21MOY243	Equipment replacement	\$ 40,000	Alameda	Yes
On-Road	21MOY246	Equipment replacement	\$ 30,000	Alameda	Yes
On-Road	21MOY249	Equipment replacement	\$ 25,000	Alameda	Yes
On-Road	21MOY257	Equipment replacement	\$ 25,000	Alameda	Yes
On-Road	21MOY261	Equipment replacement	\$ 20,000	Alameda	Yes
On-Road	21MOY271	Equipment Replacement	\$ 30,000	Alameda	Yes
On-Road	21MOY278	Equipment Replacement	\$ 40,000	Alameda	No
On-Road	21MOY283	Equipment Replacement	\$ 40,000	Alameda	Yes
On-Road	21MOY285	Equipment Replacement	\$ 40,000	Alameda	Yes
On-Road	21MOY62	Equipment replacement	\$ 15,000	Alameda	Yes
On-Road	22MOY10	Equipment Replacement	\$ 10,000	Alameda	Yes
On-Road	22MOY15	Equipment replacement	\$ 35,000	Alameda	Yes
On-Road	22MOY16	Equipment replacement	\$ 30,000	Alameda	Yes
On-Road	22MOY2	Equipment replacement	\$ 35,000	Alameda	Yes
On-Road	22MOY26	Equipment Replacement	\$ 25,000	Alameda	Yes
On-Road	22MOY35	Equipment Replacement	\$ 35,000	Alameda	Yes
Climate Tech Finance	Climate Tech Finance	First hydrogen fuel cell ferry in passenger commuter service operating in the Bay Area	\$ 250,000	Alameda, San Francisco	Yes
Off-Road	21MOY81	Portable equipment replacement	\$ 177,526	Alameda, San Francisco, Santa Clara	Yes
Off-Road	21MOY232	Equipment replacement	\$ 125,000	Alameda/ Contra Costa	Yes
Off-Road	22MOY3	Engine Replacement	\$ 1,166,000	Alameda/ Contra Costa/ San Francisco	Yes

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
Off-Road	21MOY226	Engine Replacement	\$ 141,000	Alameda/ Contra Costa/ Santa Clara	Yes
Ag/ Off-Road	20FD05	FARMER Demonstration	\$ 480,000	Alameda/ Napa	No
Ag/ Off-Road	21MOY115	Equipment replacement	\$ 279,120	Contra Costa	No
Ag/ Off-Road	21MOY272	Equipment replacement	\$ 58,000	Contra Costa	No
CPM	21-CC	County Program Manager Pass-through	\$ 1,678,066	Contra Costa	Not Applicable
On-Road	21MOY144	Equipment replacement	\$ 35,000	Contra Costa	Yes
On-Road	22MOY38	Equipment Replacement	\$ 20,000	Contra Costa	Yes
CPM	21-MAR	County Program Manager Pass-through	\$ 373,237	Marin	Not Applicable
Off-Road	21MOY168	Engine replacement	\$ 198,000	Marin	No
On-Road	21MOY142	Equipment replacement	\$ 40,000	Merced	Yes
Bicycle Facilities	20R23	Install and maintain 44 electronic bicycle lockers at the El Cerrito and San Leandro BART Stations	\$ 110,000	Multi-County	Yes
Bicycle Facilities	20R31	Install and maintain 520 electronic bicycle locker spaces at 22 Caltrain stations in San Francisco, San Mateo and Santa Clara counties	\$ 1,041,000	Multi-County	Yes
On-Road	20R28	Demonstrate 3 zero-emission Class 8 eCascadia trucks on Bay Area routes for Sysco and FedEx	\$ 322,500	Multi-County	Yes
Trip Reduction	20R14	State Route 37 Rideshare	\$ 184,500	Multi-County	Yes
Trip Reduction	20R18	SJSU Ridesharing & Trip Reduction	\$ 111,000	Multi-County	Yes
Ag/ Off-Road	21MOY111	Equipment replacement	\$ 52,624	Napa	No
Ag/ Off-Road	21MOY122	Equipment replacement	\$ 38,625	Napa	No
Ag/ Off-Road	21MOY126	Equipment replacement	\$ 77,250	Napa	No
Ag/ Off-Road	21MOY161	Equipment replacement	\$ 64,375	Napa	No
Ag/ Off-Road	21MOY166	2-for-1 Equipment Replacment	\$ 39,400	Napa	No

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
Ag/ Off-Road	21MOY174	Equipment replacement	\$ 104,775	Napa	No
Ag/ Off-Road	21MOY176	Equipment replacement	\$ 60,000	Napa	No
Ag/ Off-Road	21MOY187	Equipment replacement	\$ 153,000	Napa	No
Ag/ Off-Road	21MOY188	Equipment replacement	\$ 290,400	Napa	No
Ag/ Off-Road	21MOY203	Equipment replacement	\$ 60,000	Napa	No
Ag/ Off-Road	21MOY206	Equipment replacement	\$ 90,840	Napa	No
Ag/ Off-Road	21MOY228	Equipment replacement	\$ 130,200	Napa	No
Ag/ Off-Road	21MOY236	Equipment replacement	\$ 604,150	Napa	No
Ag/ Off-Road	21MOY239	Equipment replacement	\$ 170,100	Napa	Yes
Ag/ Off-Road	21MOY241	Equipment replacement	\$ 62,950	Napa	Yes
Ag/ Off-Road	21MOY245	Equipment replacement	\$ 143,400	Napa	No
Ag/ Off-Road	21MOY280	Equipment replacement	\$ 64,400	Napa	No
CPM	21-NAP	County Program Manager Pass-through	\$ 210,117	Napa	Not Applicable
Off-Road	22MOY39	Equipment Replacement	\$ 53,200	Napa	No
On-Road	21MOY165	Equipment replacement	\$ 25,000	Napa	No
On-Road	21R02	Vehicle Buy Back Program Administrative Costs	\$ 300,000	Regional	Not Applicable
On-Road	Vehicle Buy Back	Vehicle Buy Back	\$ 2,893,000	Regional	To be determined
Trip Reduction	21R01	Enhanced Mobile Source & Commuter Benefits Enforcement	\$ 850,000	Regional	Not Applicable
Trip Reduction	21R03	Spare The Air/Intermittent Control Programs	\$ 2,290,000	Regional	Not Applicable
CPM	21-SF	County Program Manager Pass-through	\$ 754,480	San Francisco	Not Applicable
Off-Road	21MOY100	Engine replacement	\$ 354,000	San Francisco	Yes
Off-Road	21MOY125	Engine replacement	\$ 3,056,000	San Francisco	Yes
Off-Road	21MOY150	Purchase and installation of 42 ground service equipment electric charging stations along with supporting electrical infrastructure at San International Airport.	\$ 2,545,297	San Francisco	Yes
Off-Road	21MOY79	Engine replacement	\$ 112,000	San Francisco	Yes
On-Road	21MOY121	Equipment replacement	\$ 15,000	San Joaquin	Yes

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
On-Road	21MOY177	Equipment replacement	\$ 20,000	San Joaquin	Yes
On-road	21MOY240	Equipment replacement	\$ 20,000	San Joaquin	Yes
On-Road	22MOY8	Equipment Replacement	\$ 25,000	San Joaquin	No
Ag/ Off-Road	21MOY158	Equipment replacement	\$ 87,270	San Mateo	Yes
Ag/ Off-Road	21MOY180	Equipment replacement	\$ 64,880	San Mateo	No
CPM	21-SM	County Program Manager Pass-through	\$ 1,223,635	San Mateo	Not Applicable
Off-Road	21MOY102	Equipment replacement	\$ 62,830	San Mateo	Yes
Off-Road	21MOY147	Engine replacement	\$ 182,000	San Mateo	Yes
Off-Road	21MOY202	Engine replacement	\$ 180,000	San Mateo	No
Off-Road	22MOY13	Engine Replacement	\$ 135,000	San Mateo	No
Trip Reduction	20R20	Rideshare to Transit in San Mateo County	\$ 300,000	San Mateo	No
Ag/ Off-Road	20FD04	FARMER demo	\$ 514,688	San Mateo/ Napa/ Sonoma	No
Ag/ Off-road	21MOY172	Engine Replacement	\$ 512,750	Santa Clara	No
Bicycle Facilities	20R11	Install 1.58 miles of Class IV bikeway in Los Gatos	\$ 293,900	Santa Clara	No
Bicycle Facilities	20R29	Install 1.8 miles of Class I bikeway in Morgan Hill	\$ 70,500	Santa Clara	No
CPM	21-SC	County Program Manager Pass-through	\$ 2,619,956	Santa Clara	Not Applicable
Off-Road	21MOY136	Equipment replacement	\$ 162,725	Santa Clara	Yes
Off-Road	21MOY275	Equipment replacement + Infrastructure	\$ 90,100	Santa Clara	No
On-Road	20R35	Purchase four electric delivery vans and scrap six existing vehicles	\$ 116,000	Santa Clara	No
On-Road	20RSB01	Match funding for Project #21SBP98 and #21SBP114 for the replacement of 6 diesel/CNG school buses with battery electric school buses	\$ 681,052	Santa Clara	No

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
On-Road	20SBP186	Replacement of 7 diesel buses with electric buses	\$ 152,000	Santa Clara	Yes
On-Road	21MOY264	Equipment replacement	\$ 120,000	Santa Clara	Yes
On-Road	21MOY264	Equipment replacement	\$ 60,000	Santa Clara	Yes
On-Road	21MOY57	Replacement of 2 of diesel trucks with electric trucks and infrastructure	\$ 174,400	Santa Clara	Yes
On-Road	21SBP114	Replacement of 4 diesel school buses with electric school buses and charging infrastructure	\$ 1,672,500	Santa Clara	Yes
On-Road	21SBP98	Replacement of 1 diesel and 1 CNG school bus with electric school buses and charging infrastructure	\$ 323,778	Santa Clara	No
On-Road	22MOY25	Equipment Replacement	\$ 35,000	Santa Clara	Yes
On-Road	22MOY34	Equipment replacement	\$ 55,000	Santa Clara	Yes
Trip Reduction	20R25	ACE Shuttle Bus Program	\$ 949,000	Santa Clara	Yes
Off-Road	21MOY277	Engine Replacement	\$ 345,500	Santa Clara/ Alameda	Yes
Ag/ Off-Road	21MOY112	Equipment replacement	\$ 83,700	Solano	No
Ag/ Off-Road	21MOY128	Equipment replacement	\$ 56,510	Solano	No
Ag/ Off-Road	21MOY160	Equipment replacement	\$ 70,600	Solano	Yes
Ag/ Off-Road	21MOY200	Equipment replacement	\$ 111,250	Solano	No
Ag/ Off-Road	21MOY208	Equipment replacement	\$ 76,300	Solano	No
Ag/ Off-Road	21MOY209	Equipment replacement	\$ 48,800	Solano	No
Ag/ Off-Road	21MOY218	Equipment replacement	\$ 76,100	Solano	No
Ag/ Off-Road	21MOY251	Equipment replacement	\$ 50,300	Solano	No
Ag/ Off-Road	21MOY274	Equipment replacement	\$ 120,500	Solano	No
CPM	21-SOL	County Program Manager Pass-through	\$ 360,638	Solano	Not Applicable
On-Road	21SBP196	Replacement of two diesel buses with Low-NOx CNG school buses and supporting infrastructure	\$ 260,707	Solano	Yes

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
Ag/ Off-Road	21MOY107	Equipment replacement	\$ 111,195	Sonoma	No
Ag/ Off-Road	21MOY124	Equipment replacement	\$ 60,545	Sonoma	No
Ag/ Off-Road	21MOY155	Equipment replacement	\$ 213,960	Sonoma	Yes
Ag/ Off-Road	21MOY159	Equipment replacement	\$ 159,830	Sonoma	No
Ag/ Off-Road	21MOY184	Equipment replacement	\$ 111,500	Sonoma	No
Ag/ Off-Road	21MOY207	Equipment replacement	\$ 114,000	Sonoma	No
Ag/ Off-Road	21MOY215	Equipment replacement	\$ 217,000	Sonoma	No
Ag/ Off-Road	21MOY219	Equipment replacement	\$ 112,300	Sonoma	No
Ag/ Off-Road	21MOY220	Equipment replacement	\$ 182,700	Sonoma	No
Ag/ Off-Road	21MOY221	Equipment replacement	\$ 91,650	Sonoma	No
Ag/ Off-Road	21MOY233	Equipment replacement	\$ 62,000	Sonoma	No
Ag/ Off-Road	21MOY235	Equipment replacement	\$ 82,580	Sonoma	No
Ag/ Off-Road	21MOY237	Engine Replacement	\$ 85,300	Sonoma	No
Ag/ Off-Road	21MOY238	Equipment replacement	\$ 64,700	Sonoma	No
Ag/ Off-Road	21MOY265	Equipment replacement	\$ 182,700	Sonoma	No
Ag/ Off-Road	21MOY281	Equipment replacement	\$ 42,200	Sonoma	No
Ag/ Off-Road	22MOY1	Equipment replacement	\$ 33,000	Sonoma	No
Ag/ Off-road	22MOY6	Engine Replacement	\$ 185,400	Sonoma	No
Climate Protection	Contract #2020.106	Conduct the ongoing ECO2school Youth Leadership Development Project	\$ 50,000	Sonoma	Not Applicable
CPM	21-SON	County Program Manager Pass-through	\$ 644,155	Sonoma	Not Applicable
On-Road	21SBP75	Replacement of 14 CNG buses with Low-NOx CNG	\$ 3,080,000	Sonoma	Yes
Ag/ Off-Road	21MOY214	Equipment replacement	\$ 255,400	Sonoma/ Napa	No
Off-Road	VW ZE Freight & Marine	Statewide program to provide funding to help replace freight and marine equipment with zero-emission technologies	\$ 727,500	Statewide	Not Applicable

Project Category	Project Number	Description	Award Amount	County	CARE/DAC/Low-Income/AB617 (Y/N)
On-road	VW LDV Infrastructure -H2	Statewide program to provide funding for installing H2 fueling stations	\$ 5,000,000	Statewide	Not Applicable
On-road	Clean Cars for All	Clean Cars for All	\$ 10,097,042	Regional	Yes