Memorandum

Date: 03.06.2020

To: Prospective San Francisco Project Sponsors

From: Mike Pickford – Senior Transportation Planner

Subject: Transportation Fund for Clean Air (TFCA) County Program Manager Fund – Fiscal Year 2020/21 Call for Projects

APPLICATIONS DUE BY 5 P.M. ON FRIDAY, APRIL 19, 2019

The San Francisco County Transportation Authority is pleased to announce a call for projects for \$811,962 in Transportation Fund for Clean Air (TFCA) County Program Manager Fund programming for the Fiscal Year 2020/21 cycle.

The TFCA Program was established to fund transportation projects that cost effectively improve air quality by reducing motor vehicle emissions. Funds are generated from a \$4 vehicle registration fee in the nine-county Bay Area Air Quality Management District (Air District). Forty percent of the revenues collected are available to each county on a return-to-source basis. The Transportation Authority is the designated TFCA County Program Manager for San Francisco. The remaining sixty percent of the revenues are distributed through grant programs administered by the Air District. For more details on the Air District's grant programs, visit http://www.baaqmd.gov/funding-and-incentives.

This call for projects memo is organized into the following sections:

- 1. Schedule
- 2. Eligible Project Types
- 3. Eligible Project Sponsors
- 4. Local Expenditure Criteria
- 5. Project Readiness
- 6. Application Materials
- 7. Availability of Funds
- 8. TFCA Program Guidance
- 9. For More Information

1. CALL FOR PROJECTS SCHEDULE

Friday, March 6, 2020	Transportation Authority issues TFCA Call for Projects			
Thursday, March 19, 2020 10:30 a.m.	Workshop for potential applicants at Transportation Authority offices 1455 Market Street, 22 nd Floor			
Friday, April 20, 2020 5 p.m.	TFCA Applications due to the Transportation Authority			
Wednesday, May 27, 2020	Citizens Advisory Committee Meeting – ACTION TFCA staff recommendations			
Tuesday, June 9, 2020	Transportation Authority Board Meeting – PRELIMINARY ACTION TFCA staff recommendations			
Tuesday, June 23, 2020	Transportation Authority Board Meeting – FINAL ACTION TFCA staff recommendations			
Sept 2020 (estimated)	Funds expected to be available to project sponsors			

The schedule for the Fiscal Year 2020/21 call for projects is shown in the table below.

Meeting dates and times are subject to change. Please check the Transportation Authority's website (www.sfcta.org/meetings-agendas-and-events) for the most up-to-date schedule.

We strongly encourage potential applicants to contact Transportation Authority staff as soon as possible with any questions about project eligibility or the application process.

2. ELIGIBLE PROJECT TYPES

Consistent with the legislation governing the TFCA program (California Health and Safety Code Section 44241) and the Air District's adopted policies for the Fiscal Year 2020/21 TFCA County Program Manager Fund (Attachment 2), we will accept applications for the project types listed below:

- Bicycle Projects
- Bike Share
- Shuttle/Feeder Bus Service
- Ridesharing Services
- Arterial Management and Signal Timing
- Smart Growth/Traffic Calming
- Alternative Fuel Light-Duty and Light Heavy-Duty Vehicles
- Alternative Fuel Heavy-Duty Vehicles, Low-Mileage Utility Trucks, and Buses
- Alternative Fuel Infrastructure

The Air District revised the TFCA County Program Manager Fund policies slightly versus last year, including the following updates:

- Increased the cost-effectiveness limit for alternative fuel light-duty and heavy-duty vehicles and buses;
- Clarified the cost-effectiveness limits to distinguish between bikeways and bicycle parking projects;
- Adjusted the gross vehicle weight rating (GVWR) limit from 14,000 lbs. to 8,501 lbs., thereby allowing vehicles over 8,500 lbs. to be funded as alternative fuel heavy-duty vehicles and buses; and
- Revised vehicles eligible for on-road goods movement truck replacements to clarify the Air District's intention to support diesel-to-diesel replacement of highly polluting on-road trucks that are not currently able to transition to zero-emissions technology.

3. ELIGIBLE PROJECT SPONSORS

Public agencies are eligible to apply for all project categories. Non-public entities may only be awarded TFCA grants for certain clean air vehicle projects (new alternative fuel vehicle and infrastructure, including EV charger, projects and some advanced technology demonstrations), but they may partner with public agencies for other project types.

4. LOCAL EXPENDITURE CRITERIA

Attachment 1 contains the Transportation Authority's Local Expenditure Criteria for the prioritization of TFCA funds. The intent of the criteria is to maximize the air quality benefits to San Francisco while allowing room to test a variety of new and innovative strategies for achieving motor vehicle emission reductions. Similar to last year, the Transportation Authority's Local Expenditure Criteria include project type, cost effectiveness of emissions reduced, project readiness (e.g. ability to meet TFCA timely-use-of-funds requirements), project delivery track record (including implementing, monitoring and reporting for prior TFCA projects), program diversity, community support (e.g. recommended in a community-based transportation plan, outreach conducted to identify locations and/or interested neighborhoods, or a letter of recommendation from district Supervisor), benefits to Communities of Concern (see Attachment 4 for map), and investment from non-public project sponsors or partners.

All applicant projects must meet the Air District's eligibility requirements or have a policy waiver preapproved by the Transportation Authority staff and the Air District before funds are programmed to the project.

5. PROJECT READINESS

Please note that in order to be eligible to receive Fiscal Year 2020/21 TFCA funds, a project must commence implementation by December 31, 2021. The Air District defines commence as the issuance of a purchase order to secure project vehicles and equipment, commencement of shuttle and ridesharing service, or delivery of the award letter for a construction contract.

6. APPLICATION MATERIALS

A complete application for Fiscal Year 2020/21 TFCA County Program Manager Funds must contain the following items, all of which must be submitted electronically:

A. **Project Information Form** (Attachment 3 and available online).

B. **Cost-effectiveness worksheet** (Available online). This form is updated annually by the Air District, so be sure to use the Fiscal Year 2020/21 (the Air District's preferred nomenclature is Fiscal

Year Ending [FYE] 2021) worksheet that is appropriate for your project type.

The Project Information Form and Cost Effectiveness Worksheet are available on the Transportation Authority's website at <u>www.sfcta.org/tfcacallforprojects</u>.

Applications should be emailed to tfca@sfcta.org by 5 p.m. Friday, April 20, 2020.

The final project information sheet and cost-effectiveness worksheet for each project is subject to review and modification by the Transportation Authority after consultation with the project sponsor and the Air District.

7. AVAILABILITY OF FUNDS

Projects that have been awarded funding may only start accruing expenses after the Transportation Authority and the project sponsor have signed a funding agreement. We anticipate issuing funding agreements by September 2020, depending on when the Air District approves the master TFCA funding agreement with the Transportation Authority.

8. TFCA PROGRAM GUIDANCE

The Air District's Fiscal Year 2020/21 TFCA Expenditure Plan Guidance (Attachment 2) details the information needed to complete the worksheets. All guidelines and requirements in Attachment 2 apply to this call for projects.

9. FOR MORE INFORMATION

For more information on this call for projects, please contact Mike Pickford, Senior Transportation Planner, at 415.522.4822 or mike.pickford@sfcta.org, or Kaley Lyons, Transportation Planner, at 415.522.4835 or kaley.lyons@sfcta.org

Attachments (4):

- 1. Fiscal Year 2020/21 TFCA Local Expenditure Criteria
- 2. Fiscal Year 2020/21 TFCA County Program Manager Fund Expenditure Plan Guidance
- 3. Fiscal Year 2020/21 Project Information Form
- 4. Communities of Concern Map

Attachment 1

Fiscal Year 2020/21 Transportation Fund for Clean Air (TFCA) LOCAL EXPENDITURE CRITERIA

The following are the Fiscal Year 2020/21 Local Expenditure Criteria for San Francisco's TFCA County Program Manager Funds.

ELIGIBILITY SCREENING

In order for projects to be considered for funding, they must meet the eligibility requirements established by the Air District's TFCA County Program Manager Fund Policies for Fiscal Year Ending 2021. Consistent with the policies, a key factor in determining eligibility is a project's cost effectiveness (CE) ratio. The TFCA CE ratio is designed to measure the cost effectiveness of a project in reducing motor vehicle air pollutant emissions and to encourage projects that contribute funding from non-TFCA sources. TFCA funds budgeted for the project are divided by the project's estimated emissions reduction. The estimated reduction is the weighted sum of reactive organic gases (ROG), oxides of nitrogen (NOx), and particulate matter (PM) emissions that will be reduced over the effective life of the project, as defined by the Air District's guidelines.

TFCA CE is calculated by inputting information provided by the applicant into the Air District's CE worksheets. Transportation Authority staff will be available to assist project sponsors with these calculations and will work with Air District staff and the project sponsors as needed to verify reasonableness of input variables. The worksheets also calculate reductions in carbon dioxide (CO₂) emissions, which are not included in the Air District's official CE calculations, but which the Transportation Authority considers in its project prioritization process.

Consistent with the Air District's Guidelines, in order to be eligible for Fiscal Year 2020/21 TFCA funds, a project must meet the CE ratio for emissions (i.e., ROG, NOx, and PM) reductions as specified in the guidelines for each project type. Projects that do not meet the appropriate CE threshold cannot be considered for funding.

PROJECT PRIORITIZATION

Candidate projects that meet the cost effectiveness thresholds will be prioritized for funding based on the two-step process described below:

Step 1 - TFCA funds are programmed to eligible projects, as prioritized using the Transportation Authority Board-adopted Local Priorities (see next page).

Step 2 - If there are TFCA funds left unprogrammed after Step 1, the Transportation Authority will work with project sponsors to develop additional TFCA candidate projects. This may include refinement of projects that were submitted for Step 1, but were not deemed eligible, as well as new projects. This approach is in response to an Air District policy that does not allow County Program Managers to rollover any unprogrammed funds to the next year's funding cycle. If Fiscal Year 2020/21 funds are not programmed within 6 months of the Air District's approval of San Francisco's funding allocation, expected in May 2020, funds can be redirected (potentially to non-San Francisco projects) at the Air District's discretion. New candidate projects must meet all TFCA eligibility requirements and will be prioritized based on the Transportation Authority Board's adopted Local Priorities.

Local Priorities

The Transportation Authority's Local Priorities for prioritizing TFCA funds include the following factors:

1. Project Type - In order of priority:

- 1) Zero emissions non-vehicle projects including, but not limited to, bicycle and pedestrian facility improvements, transit priority projects, traffic calming projects, and transportation demand management projects;
- 2) Shuttle services that reduce vehicle miles traveled (VMT);
- 3) Alternative fuel vehicles and alternative fuel infrastructure; and
- 4) Any other eligible project.

2. Cost Effectiveness of Emissions Reduced- Priority will be given to projects that achieve high CE (i.e. a low cost per ton of emissions reduced) compared to other applicant projects. The Air District's CE worksheet predicts the amount of reductions each project will achieve in ROG, NOx, PM, and CO₂ emissions. However, the Air District's calculation only includes the reductions in ROG, NOx, and PM per TFCA dollar spent on the project. The Transportation Authority will also give priority to projects that achieve high CE for CO₂ emission reductions based on data available from the Air District's CE worksheets. The reduction of transportation-related CO₂ emissions is consistent with the City and County of San Francisco's 2013 *Climate Action Strategy*.

3. Project Readiness - Priority will be given to projects that are ready to proceed and have a realistic implementation schedule, budget, and funding package. Projects that cannot realistically commence in calendar year 2021 or earlier (e.g. to order or accept delivery of vehicles or equipment, begin delivery of service, award a construction contract, start the first TFCA-funded phase of the project) and be completed within a two-year period will have lower priority. Project sponsors may be advised to resubmit these projects for a future TFCA programming cycle.

4. Community Support – Priority will be given to projects with demonstrated community support (e.g. recommended in a community-based transportation plan, outreach conducted to identify locations and/or interested neighborhoods, or a letter of recommendation provided by the district Supervisor).

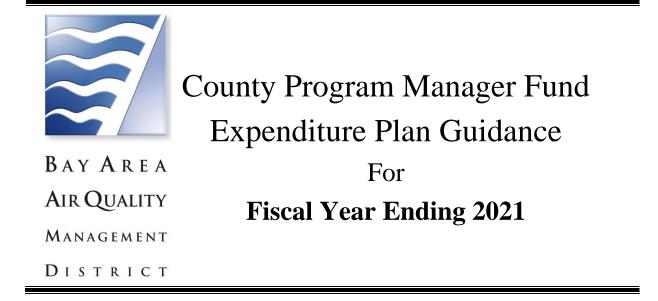
5. Benefits Communities of Concern – Priority will be given to projects that directly benefit Communities of Concern, whether the project is directly located in a Community of Concern (see map) or can demonstrate benefits to disadvantaged populations.

6. Investment from Non-Public Project Sponsors or Partners – Non-public entities may apply for and directly receive TFCA grants for alternative-fuel vehicle and infrastructure projects and may partner with public agency applicants for any other project type. For projects where a non-public entity is the applicant or partner, priority will be given to projects that include an investment from the non-public entity that is commensurate with the TFCA funds requested.

7. Project Delivery Track Record – Projects that are ranked high in accordance with the above local expenditure criteria may be lowered in priority or restricted from receiving TFCA funds if either of the following conditions applies or has applied during the previous two fiscal years:

- **Monitoring and Reporting** Project sponsor has failed to fulfill monitoring and reporting requirements for any previously funded TFCA project.
- Implementation of Prior Project(s) Project sponsor has a signed Funding Agreement for a TFCA project that has not shown sufficient progress; the project sponsor has not implemented the project by the project completion date without formally receiving a time extension from the Transportation Authority; or the project sponsor has violated the terms of the funding agreement.

8. Program Diversity - Promotion of innovative TFCA projects in San Francisco has resulted in increased visibility for the program and offered a good testing ground for new approaches to reducing motor vehicle emissions. Using the project type criteria established above, the Transportation Authority will continue to develop an annual program that contains a diversity of project types and approaches and serves multiple constituencies. The Transportation Authority believes that this diversity contributes significantly to public acceptance of and support for the TFCA program.



Transportation Fund for Clean Air



Bay Area Air Quality Management District 375 Beale Street, Suite 600, San Francisco, CA 94105 Issued December 2019

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Transportation Fund for Clean Air (TFCA)

Vehicle emissions represent the largest contributor to unhealthful levels of ozone (summertime "smog") and particulate matter and on-road motor vehicles, including cars, trucks, and buses, constitute the most significant sources of air pollution in the Bay Area.

To protect public health, the California State Legislature enacted the California Clean Air Act in 1988. Pursuant to this law, the Bay Area Air Quality Management District (Air District) has adopted the <u>2017 Clean</u> <u>Air Plan (CAP)</u>, which describes how the region will work toward compliance with State and Federal ambient air quality standards and make progress on climate protection. To reduce emissions from motor vehicles, the <u>2017 CAP</u> includes transportation control measures (TCMs) and mobile source measures (MSMs). A TCM is defined as "any strategy to reduce vehicle trips, vehicle use, vehicle miles traveled, vehicle idling, or traffic congestion for the purpose of reducing motor vehicle emissions." MSMs encourage the retirement of older, more polluting vehicles and the introduction of newer, less polluting motor vehicle technologies.

In 1991, the California State Legislature authorized the Air District to impose a \$4 surcharge on motor vehicles registered within the Bay Area to fund projects of TCMs and MSMs. The Air District allocates this revenue through its Transportation Fund for Clean Air (TFCA) program to fund eligible projects and programs. The statutory authority and requirements of the TFCA program are set forth in California Health and Safety Code (HSC) Sections 44241 and 44242.

TFCA-funded projects have many benefits, for example:

- $\sqrt{}$ Reducing air pollution, including air toxics such as benzene and diesel particulates
- $\sqrt{-}$ Conserving energy and helping to reduce greenhouse gas emissions
- $\sqrt{}$ Improving water quality by decreasing contaminated runoff from roadways
- $\sqrt{}$ Improving transportation options
- $\sqrt{}$ Reducing traffic congestion

Forty percent (40%) of these TFCA funds are pass-through funds to the designated county program manager in each of the nine counties within the Air District's jurisdiction based on the county's proportionate share of fee-paid vehicle registration ("County Program Manager Fund"). The remaining sixty percent (60%) of these funds are awarded by the Air District to eligible projects and programs implemented directly by the Air District and to a grant program known as the Regional Fund.

This document provides guidance on the expenditure of the TFCA County Program Manager Fund.

Updates from Fiscal Year Ending (FYE) 2020 to FYE 2021

Air District staff brings updates to the TFCA County Program Manager Fund Policies for Board approval annually. Based on feedback and comments received during the public comment period, the following updates have been made:

- Increased the cost-effectiveness limit for alternative fuel light-duty and heavy-duty vehicles and buses;
- Clarified the cost-effectiveness limits to distinguish between bikeways and bicycle parking projects;
- Adjusted the gross vehicle weight rating (GVWR) limit from 14,000 lbs. to 8,501 lbs., thereby allowing vehicles over 8,500 lbs. to be funded as alternative fuel heavy-duty vehicles and buses;
- Revised vehicles eligible for on-road goods movement truck replacements to clarify the Air District's intention to support diesel-to-diesel replacement of highly polluting on-road trucks that are not currently able to transition to zero-emissions technology; and
- Implemented minor text revisions to provide clarification on existing policies.

County Contact Email Alameda jtaylor@alamedactc.org Jacki Taylor Contra Costa Peter Engel pengel@ccta.net Marin Scott McDonald SMcDonald@tam.ca.gov Napa Diana Meehan dmeehan@nvta.ca.gov Santa Clara **Bill Hough** Bill.Hough@vta.org San Francisco **Mike Pickford** mike.pickford@sfcta.org San Mateo **Kim Wever** kwever@smcgov.org Solano **Triana Crighton** tcrighton@sta.ca.gov Sonoma Dana Turréy dana.turrey@scta.ca.gov

Bay Area County Program Manager Liaisons

TFCA County Program Manager Fund

Roles and Responsibilities

County Program Managers are required to do the following:

- 1. Administer funding in accordance with applicable legislation, including HSC Sections 44233, 44241, and 44242, and with Air District Board-Adopted TFCA County Program Manager Fund Policies for FYE 2020 (found in Appendix D).
- 2. Hold one or more public meetings each year
 - to adopt criteria for the expenditure of the funds if those criteria have been modified in any way from the previous year (criteria must include the Air District Board-Approved TFCA County Program Manager Fund Policies)¹, and
 - b. to review the expenditure of revenues received.
- 3. Prepare and submit Expenditure Plan Applications, Project Information Forms, Cost-Effectiveness Worksheets, Funding Status Reports, Interim Project Reports, and Final Reports to the Air District.
- 4. Provide funds to only projects that comply with the Air District Board-Approved Policies and/or that have received Air District Board of Director's approval for award.
- 5. Encumber and expend funds within two years of the receipt of funds, unless an application for funds states that the project will take a longer period of time to implement and an extension is approved by the Air District or the County Program Manager, or unless the time is subsequently extended if the recipient requests an extension and the County Program Manager finds that significant progress has been made on the project.
- 6. Limit administrative costs in handling of TFCA funds to no more than 6.25 percent of the funds received.
- 7. Allocate (i.e., program) all new TFCA funds within six months of the date of the Air District Board of Director's approval of the Expenditure Plan.
- 8. Provide information to the Air District and to auditors on the expenditures of TFCA funds.

Air District is required to do the following:

- 1. Hold a public hearing to
 - a. Adopt cost-effectiveness criteria that projects and programs are required to meet. Criteria shall maximize emission reductions and public health benefits; and
 - b. Allocate County Program Managers' share of DMV fee revenues.
- 2. Provide guidance, offer technical support, and hold workshops on program requirements, including cost-effectiveness.
- 3. Review Expenditure Plan Applications, Cost-Effectiveness Worksheets, Project Information Forms, Funding Status Reports, Interim Project Reports, and Final Reports.
- 4. Re-distribute unallocated TFCA funds from the County Program Manager Fund.
- 5. Limit TFCA administrative costs to a maximum of 6.25 percent of the County Program Manager funds.

¹ California Senate Bill 491. *Transportation: omnibus bill*. Retrieved from <u>https://leginfo.legislature.ca.gov/</u>. Approved by Governor on October 2, 2015.

- 6. Conduct audits of TFCA programs and projects.
- 7. Hold a public hearing in the case of any misappropriation of revenue.

Eligible TFCA Project Types

TFCA legislation requires that projects meet eligibility requirements, as described in the California HSC Section 44241. The following is a complete list of mobile source and transportation control project types authorized under the California HSC Section 44241(b):

- 1. The implementation of ridesharing programs;
- 2. The purchase or lease of clean fuel buses for school districts and transit operators;
- 3. The provision of local feeder bus or shuttle service to rail and ferry stations and to airports;
- 4. Implementation and maintenance of local arterial traffic management, including, but not limited to, signal timing, transit signal preemption, bus stop relocation and "smart streets";
- 5. Implementation of rail-bus integration and regional transit information systems;
- 6. Implementation of demonstration projects in telecommuting and in congestion pricing of highways, bridges, and public transit;
- 7. Implementation of vehicle-based projects to reduce mobile source emissions, including, but not limited to, engine repowers, engine retrofits, fleet modernization, alternative fuels, and advanced technology demonstrations;
- 8. Implementation of a smoking vehicles program;
- 9. Implementation of an automobile buy-back scrappage program operated by a governmental agency;
- 10. Implementation of bicycle facility improvement projects that are included in an adopted countywide bicycle plan or congestion management program; and
- 11. The design and construction by local public agencies of physical improvements that support development projects and that achieve motor vehicle emission reductions. The projects and the physical improvements shall be identified in an approved area-specific plan, redevelopment plan, general plan, or other similar plan.

TFCA funds may not be used for:

- Planning activities that are not directly related to the implementation of a specific project; or
- The purchase of personal computing equipment for an individual's home use.

Attributes of Cost-Effective Projects

- ✓ Project uses the best available technology or cleanest vehicle (e.g., achieves significant petroleum reduction, utilizes vehicles that have 2010 or newer engines, is not a Family Emission Limit (FEL) engine, and/or have zero tailpipe emissions).
- $\sqrt{}$ Project is placed into service within one year and/or significantly in advance of regulatory changes (e.g., lower engine emission standards).
- $\sqrt{}$ Project requests relatively low amounts of TFCA funds (grantee provides significant matching funds).
- $\sqrt{}$ The following are additional attributes of cost-effective projects for specific project categories:

- For vehicle trip reduction projects (e.g., bike facilities, shuttle/feeder bus service, ridesharing):
 - Project serves relatively large percentage of riders/participants who otherwise would have driven alone over a long distance.
 - Project provides "first and last mile" connection between employers and transit.
 - Service operates on a route (service and non-service miles) that is relatively short in distance.
- For pilot trip reduction projects (excluding pilot shuttle/feeder bus service projects):
 - Project reduces single-occupancy commute-hour vehicle trips.
 - Service operates in areas that are underserved and lack other comparable service in past three years, or significantly expands service to an existing area.
 - Service is designed to be self-sustaining or require minimal TFCA funds by the end of the project's operational period.
 - Services connects users to mass transit.
- For vehicle-based projects:
 - Vehicle has high operational use, annual mileage, and/or fuel consumption (e.g., taxis, transit fleets, utility vehicles).
- For arterial management and smart growth projects:
 - Pre- and post-project counts demonstrate high usage and potential to shift mode or travel behavior that reduces emissions.
 - Project demonstrates a strong potential to reduce motor vehicle trips by significantly improving mobility via walking, bicycling, and improving transit.
 - Project is located along high-volume transit corridors and/or is near major activity centers such as schools, transit centers, civic or retail centers.
 - Project is associated with a multi-modal transit center, supports high-density mixed-use development or communities.

Attributes of Projects that Meet the "Readiness" Policy

The intent of TFCA is to fund projects that achieve surplus emission reductions within two years. Beginning in FYE 2017, the Air District and the County Program Managers were directed to enforce the two-year time limit for bicycle projects (i.e., any projects under Policy #30), the County Program Managers should cancel any projects that are not completed within the two-year time limit, and the Air District will not consider any extension requests for bicycle projects that have already been granted a two-year extension from the County Program Manager.² For all other project categories, County Program Managers may grant a two-year extension, for a total of four years to implement projects.

The following is a list of activities that should be completed prior to awarding TFCA funds to ensure the successful completion of projects:

- Planning (e.g., design)
- Jurisdictional approval (e.g., permits)
- Legislative approvals (e.g., CPUC)
- Environmental review/approvals (e.g., EIR, negative declaration)

² Per direction provided by the Air District's Mobile Source Committee members on October 22, 2015.

Program Schedule

Program Schedule for the FYE 2021 Cycle	(County Program Manager deadlines are italicized)
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Date	Activity
December 2019	Expenditure Plan Application Guidance issued by Air District
January 13, 2020	Expenditure Plan Application funding estimates issued by Air District
March 3, 2020	Deadline for County Program Manager to email and postmark Expenditure Plan Application, which includes:
	 Summary Information Form, signed and dated by County Program Manager's Executive Director Summary Information Addendum Form (if applicable)
April 23, 2020 (tentative)	Proposed Expenditure Plan funding allocations reviewed by Air District's Mobile Source Committee
May 6, 2020 (tentative)	Expenditure Plan funding allocations considered for approval by Air District's Board of Directors
May 13, 2020 (tentative)	Air District provides Funding Agreements for funding allocations to County Program Managers for signature
May 31, 2020	Deadline for County Program Manager to email or postmark reports for projects from FYE 2020 and prior years:
	 Funding Status Report – Include all open projects and projects closed since July 1. Final Report – For projects closed July 1-December 31 (and optionally those closing later), submit both a Final Report Form and a final Cost-Effectiveness Worksheet
August 6, 2020 (tentative)	Within three months of Air District Board approval, deadline for County Program Manager to email request for Board approval of any projects that do not conform to TFCA policies:
	 Project Information Form (sample can be found in Appendix G) Cost-Effectiveness Worksheet (instructions can be found in Appendix H)
October 31, 2020	Deadline for County Program Manager to email or postmark reports for projects from FYE 2020 and prior years:
	 Interim Project Report – Submit this form for every open project. Funding Status Report – Include all open projects and projects closed since January 1. Final Report – For projects closed January 1-June 30 (and optionally those closing later), submit both a Final Report Form and a final Cost-Effectiveness Worksheet.
November 6, 2020 (tentative)	Within six months of Air District Board approval, deadline for County Program Manager to email reports for each new FYE 2021 project:
	• Project Information Form (sample can be found in Appendix G)

	• Cost-Effectiveness Worksheet (instructions can be found in Appendix H)
May 31, 2021	Deadline for County Program Manager to email or postmark reports for projects from FYE 2021 and prior years:
	• Funding Status Report – Include all open projects and projects closed since July 1.
	 Final Report – For projects closed July 1-December 31 (and optionally those closing later), submit both a Final Report Form and a final Cost-effectiveness Worksheet

Note: Items due on dates that fall on weekends or on State/Federal holidays are due on the next following business day.

Expenditure Plan Application Process

The Air District will provide County Program Managers the Summary Information Form and Summary Information - Addendum Form (i.e., the Expenditure Plan application materials). These forms must be completed by the County Program Manager and returned to the Air District as indicated below. See Appendix B for examples of these forms.

Expenditure Plans must be submitted both electronically via email to Betty Kwan at <u>bkwan@baaqmd.gov</u>, and as a hard copy by mail or by delivery service to:

Chengfeng Wang, Strategic Incentives Division Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105

Materials sent to the Air District via fax will not be accepted.

Programming of Funds

County Program Managers must allocate (i.e., program) TFCA funds within *six months* of Air District Board approval of a County Program Manager's Expenditure Plan and submit electronic copies of: 1) the Cost-effectiveness Worksheet and 2) the Project Information Form for each new project. Any unallocated funds must be returned to the Air District for programming.

Non-conforming projects: Policy #3 provides a mechanism for consideration of projects that are authorized in the TFCA legislation and meet the cost-effectiveness requirement for that project type, but are in some way inconsistent with the current-year TFCA County Program Manager Fund Policies. To request that such a project be considered for approval by the Air District, County Program Managers must submit a Cost-Effectiveness Worksheet, Project Information Form, and supporting documentation to the Air District for review no later than *three months* after Air District Board's approval of the Expenditure Plan. (See the Program Schedule section for further details.)

Reporting Forms

The following Air District-approved forms will be emailed to the County Program Managers or posted on either the Air District's website at <u>www.baaqmd.gov/tfca4pm</u> or another online platform.

• <u>Cost-Effectiveness Worksheet</u> (due within 6 months of Air District Board approval of Expenditure Plan, and for FYE 2020 and prior year projects, with the Final Report; see Appendix H)

The purpose of the Cost-Effectiveness Worksheet is to calculate estimated (pre-project) and realized (post-project) emissions reduced for each project and to compare the emissions reductions to the TFCA funds invested. County Program Managers must submit a worksheet for each new project and must ensure that the TFCA cost-effectiveness is equal to or less than the Board-approved TFCA cost-effectiveness limit, **as specified in Policy #2.** County Program Managers must submit a Cost-effectiveness Worksheet in Microsoft Excel format for each project to the Air District pre- and post-project.

Instructions for completing the worksheets are found in Appendix H. If you do not use the Air District's default guidelines to determine a project's cost-effectiveness, then you **must provide documentation and information to support alternative values and assumptions** to the Air District for review, evaluation, and approval.

- Pre-project cost-effectiveness worksheets must be submitted in a Microsoft Excel spreadsheet with the filename structure listed below.
 - [Last two digits of FYE][abbreviated county code][sequential project number]_CE-Submitted-[Project Name].xlsx
 - Example: 21SC12_CE-Submitted-SanJoseZeroEmissionShuttle.xlsx

• <u>Project Information Form</u> (due within 6 months of Air District Board approval of Expenditure Plan; see Appendix G)

The primary purpose of the Project Information Form is to provide a description of each project funded and other applicable (including technical) information that is not captured in the cost-effectiveness worksheet. A copy of this form and instructions for completing it are found in Appendix G. Project Information Forms must be submitted for each new project funded, and a revised Project Information Form must be submitted whenever changes are approved by the County Program Manager that affect the information stated on this form.

- Information Forms must be submitted in a Microsoft Word document with the filename structure listed below.
 - [Last two digits of FYE][abbreviated county code][sequential project number]_ProjInfo-[Project Name].docx
 - Example: 21SC12_ProjInfo-SanJoseZeroEmissionShuttle.docx

• Biannual <u>Funding Status Report</u> Form (due October 31 and May 31; see Appendix C)

This form is used to provide an update on all open and recently closed projects (closed since January 1 for the October 31 report and closed since July 1 for the May 31 report) and report any changes in status for all projects, including cancelled, completed under budget, received supplemental funding, or received a time extension during the previous six months. A sample form is provided in Appendix C.

• <u>Final Report Form (due October 31 and May 31)</u>

A Final Report Form is due at the conclusion of every project. The Final Report Forms are specific to each type of project. Final Report Forms are due to the Air District semi-annually as follows:

- > **Due October 31:** Projects that closed Jan 1–Jun 30 (and optionally those closing later)
- > **Due May 31:** Projects that closed Jul 1–Dec 31 (and optionally those closing later)

• Annual Interim Project Report Form (due October 31)

For each active/open project, an Interim Project Report Form is due annually on October 31. This report provides status information on project progress and fund usage.

County Program Managers may also choose to require additional reports of Grantees.

Additional Information

Workshops, Support, and Assistance

Air District staff is available to assist with TFCA project cost-effectiveness analysis, workshops for Grantees, and outreach for TFCA projects. County Program Managers are urged to consult with Air District staff when evaluating complex projects (such as bike share, vehicle, and vehicle infrastructure projects requiring the evaluation of emission reductions beyond those required by regulations) or when using cost-effectiveness assumptions other than those provided by the Air District in this Guidance. Consulting with the Air District prior to awarding funds minimizes the risk of both funding projects that are not eligible for TFCA funds and awarding more funding to a project than it is eligible for. Please contact us and let us know how we can assist you.

Air District Contact

Please direct questions to: Betty Kwan, Staff Specialist, (415) 749-4676, <u>bkwan@baaqmd.gov</u>

Appendix A: Guidelines for Eligible TFCA Reimbursable Costs

The TFCA-enabling legislation allows vehicle registration fees collected for the program to be used for project implementation costs, as well as administrative project costs. This appendix provides guidance on differentiating and reporting these costs. The Air District will use the definitions and interpretations discussed below in the financial accounting of the TFCA program. The Air District conducts audits on TFCA-funded projects to ensure that the funds have been spent in accordance with the program guidelines and policies.

Project Implementation Costs

Project implementation costs are charges associated with implementing a TFCA-funded project including:

- Documented hourly labor charges (salaries, wages, and benefits) directly and solely related to implementation of the TFCA project;
- Capital equipment and installation costs;
- Shuttle driver labor and equipment maintenance costs;
- Contractor labor charges related to the TFCA project;
- Travel, training, and associated personnel costs that are directly related to the implementation of the TFCA-funded project (e.g., the cost of training mechanics to service TFCA-funded natural gas clean air vehicles); and
- Indirect costs associated with implementing the project, including reasonable overhead costs incurred to provide a physical place of work (e.g., rent, utilities, office supplies), general support services (e.g., payroll, reproduction), and managerial oversight.

Administrative Project Costs

Administrative project costs are costs associated with the administration of a TFCA project, and do not include project capital or operating costs, as discussed above. Administrative project costs that are reimbursable to a Grantee are limited to a maximum of 6.25% of the total TFCA funds received.

Administrative project costs are limited to the following activities that have documented hourly labor and overhead costs (salaries, wages, and benefits). Hourly labor charges must be expressed on the basis of hours worked on the TFCA project.

- Costs associated with administering the TFCA Funding Agreement (e.g., responding to requests for information from Air District and processing amendments). Note that costs incurred in preparation of a TFCA application or costs incurred prior to the execution of the Funding Agreement are not eligible for reimbursement;
- Accounting for TFCA funds;
- Fulfilling all monitoring, reporting, and record-keeping requirements specified in the TFCA Funding Agreement, including the preparation of reports, invoices, and final reports; and
- Documented indirect administrative costs associated with administrating the project, including reasonable overhead costs of utilities, office supplies, reproduction and managerial oversight.

Project implementation and administrative project costs that are approved by the County Program Manager shall be described in a Funding Agreement. The Grantee may seek reimbursement for project implementation and administrative project costs by providing proper documentation with project invoices. Documentation for these costs will show how these costs were calculated, for example, by listing the date when the hours were worked, employees' job titles, employees' hourly pay rates, tasks being charged, and total charges. Documentation of hourly charges may be provided with time sheets or any other generally accepted accounting method to allocate and document staff time.

Appendix B: Sample Expenditure Plan Application

SUMMARY INFORMATION

County Program Manager Agency Name:	
Address:	
PART A: NEW TFCA FUNDS	
1. Estimated FYE 2021 DMV revenues (based on projected CY2019 revenues):	Line 1:
2. Difference between prior-year estimate and actual revenue:	Line 2:
a. Actual FYE 2019 DMV revenues (based on CY2018):	
b. Estimated FYE 2019 DMV revenues:	
('a' minus 'b' equals Line 2.)	
3. Estimated New Allocation for projects and administration (Sum of Lines 1 and 2):	Line 3:
PART B: INTEREST FOR REPROGRAMMING AND TFCA FUNDS AVAILABLE FO	R REPROGRAMMING
4. Total available for programming/reprogramming to other projects.	Line 4:
a. Amount available from previously funded projects:	
b. Interest income earned on TFCA funds in CY 2019	
('a' plus 'b' equals Line 4.)	
PART C: TOTAL AVAILABLE TFCA FUNDS	
5. Total Available TFCA Funds (Sum of Lines 3 and 4)	Line 5:
a. Estimated TFCA funds budgeted for administration: ¹	
(Note: This amount may not exceed 6.25% of Line 3.)	
b. Estimated Total TFCA funds available for projects:	
(Line 5 minus Line 5.a.)	

I certify that, to the best of my knowledge, the information contained in this application is complete and accurate.

Executive	Director	Signature:	

Date:

SUMMARY INFORMATION - ADDENDUM

Complete if there are TFCA Funds available for reprogramming.

		1				1
Project #	Project Sponsor/ Grantee	Project Name	\$ TFCA Funds Allocated	\$ TFCA Funds Expended	\$ TFCA Funds Available	Code*

TOTAL TFCA FUNDS AVAILABLE FOR REPROGRAMMING

\$_____

(Enter this amount in Part B, Line 4.a. of Summary Information form)

* Enter UB (for projects that were completed under budget) and CP (for cancelled project).

Appendix C: Sample Funding Status Report Form

County Pro	gram Manager:				Re	port Period:	N	May 31s	st 🛛 🗴	Oct	. 31st						
Date:													1				
					CP	Cancelled Pro	niect ¹			Undate	by CMA						
						Cmpl Under E					-	Database					
Please pro	ovide any updated information in th	e yellow columns. If						be liste	d as a negative	; a balai	nce from						
	e other cells, please shade them ye					closure under											
					Column B	100% = All co	mponents	s/report	s completed, ap	proved	and \$ pai	d out					
						90% = All com	ponents	comple	ted; \$ paid out;	awaiting	Final Re	port					
					Α					в							
					A					в							
TFCA Project #	Project Title	Project Sponsor	Current TFCA Funds Awarded	Current TFCA Funds Awarded per CMA Update	Funds from CP/UB	TFCA\$ Reprgm to Project# or FY	TFC A\$ Pa To Da		TFCA\$ Paid Out per CMA Update	% Cmpl	% Cmpl per CMA Update	Project Completion Date	Project Completion Date per CMA Update	Final Rpt Due to CMA per Agrmnt	Final Rpt Due to CMA per Agrmnt per CMA Update	Date of First Check	Comments
(print name), certify that the information provided is complete and correct; and that if any extensions have been approved, that significant progress has been made on the project(s) for which the funds were granted, pursuant to HSC 44242(d).								HSC 44242(d).									
	(signature)																
County Pro	gram Manager Liaison																
1	Cancelled projects include projects ca	ancelled by the project spor	nsor, the county	program manag	er, and the Ai	District. Prov	ide expla	anation	for the cancell	ation (e	.g., inelig	ible) under the	Comments I	ield.			

Appendix D: Board-Adopted Policies for FYE 2021

Adopted November 20, 2019

The following Policies apply to the Bay Area Air Quality Management District's (Air District) Transportation Fund for Clean Air (TFCA) County Program Manager Fund for fiscal year ending (FYE) 2021.

BASIC ELIGIBILITY

1. **Reduction of Emissions:** Only projects that result in the reduction of motor vehicle emissions within the Air District's jurisdiction are eligible.

Projects must conform to the provisions of the California Health and Safety Code (HSC) sections 44220 et seq. and these Air District Board of Directors adopted TFCA County Program Manager Fund Policies.

Projects must achieve surplus emission reductions, i.e., reductions that are beyond what is required through regulations, ordinances, contracts, and other legally binding obligations at the time of the execution of a grant agreement between the County Program Manager and the grantee. Projects must also achieve surplus emission reductions at the time of an amendment to a grant agreement if the amendment modifies the project scope or extends the project completion deadline.

2. **TFCA Cost-Effectiveness:** Projects must not exceed the maximum cost-effectiveness (C-E) limit specified in Table 1. Cost-effectiveness (\$/weighted ton) is the ratio of TFCA funds awarded to the sum of surplus emissions reduced, during a project's operational period, of reactive organic gases (ROG), nitrogen oxides (NOx), and weighted PM10 (particulate matter 10 microns in diameter and smaller). All TFCA-generated funds (e.g., reprogrammed TFCA funds) that are awarded or applied to a project must be included in the evaluation. For projects that involve more than one independent component (e.g., more than one vehicle purchased, more than one shuttle route), each component must achieve this cost-effectiveness requirement.

County Program Manager administrative costs are excluded from the calculation of a project's TFCA costeffectiveness.

Policy	Project Category	Maximum C-E
No.		(\$/weighted ton)
22	Alternative Fuel Light-Duty Vehicles	500,000
23	Reserved	Reserved
24	Alternative Fuel Heavy-Duty Vehicles and Buses	500,000
25	On-Road Goods Movement Truck Replacements	90,000
26	Alternative Fuel Infrastructure	250,000
		500,000*
27	Ridesharing Projects - Existing	150,000
28.ah.	Shuttle/Feeder Bus Service – Existing	200,000;
		250,000 for services in CARE
		Areas or PDAs
29.a.	Shuttle/Feeder Bus Service - Pilot	Year 1 - 250,000
		Year 2 - see Policy #28.ah.
	Shuttle/Feeder Bus Service – Pilot in CARE Areas or	Years 1 & 2 - 500,000
	PDAs	Year 3 - see Policy #28.ah.
29.b.	Pilot Trip Reduction	500,000

Table 1: Maximum Cost-Effectiveness for TFCA County Program Manager Fund Projects

30	Bicycle Projects	
	Bikeways	500,000
	Bicycle Parking	250,000
31	Bike Share	500,000
32	Arterial Management	175,000
33	Smart Growth/Traffic Calming	175,000

*This higher C-E limit is for projects that install electric vehicle charging stations at multi-dwelling units, transit stations, and park-and-ride lot facilities.

- 3. Eligible Projects and Case-by-Case Approval: Eligible projects are those that conform to the provisions of the HSC section 44241, Air District Board-adopted policies, and Air District guidance. On a case-by-case basis, County Program Managers must receive approval by the Air District for projects that are authorized by the HSC section 44241 and achieve Board-adopted TFCA cost-effectiveness but do not fully meet other Board-adopted Policies.
- 4. **Consistent with Existing Plans and Programs:** All projects must comply with the Transportation Control and Mobile Source Control Measures included in the Air District's most recently approved strategies for achieving and maintaining State and national ozone standards, those plans and programs established pursuant to HSC sections 40233, 40717, and 40919; and, when specified, other adopted federal, State, regional, and local plans and programs.
- 5. Eligible Recipients: Grant recipients must be responsible for the implementation of the project, have the authority and capability to complete the project, and be an applicant in good standing with the Air District (Policies #8-10).
 - a. Public agencies are eligible to apply for all project categories.
 - b. **Non-public entities** are only eligible to apply for new alternative-fuel (light, medium, and heavy-duty) vehicle and infrastructure projects, and advanced technology demonstrations that are permitted pursuant to HSC section 44241(b)(7).
- 6. **Readiness:** Projects must commence by the end of calendar year 2021. For purposes of this policy, "commence" means a tangible preparatory action taken in connection with the project's operation or implementation, for which the grantee can provide documentation of the commencement date and action performed. "Commence" includes, but is not limited to, the issuance of a purchase order to secure project vehicles and equipment, commencement of shuttle/feeder bus and ridesharing service, or the delivery of the award letter for a construction contract.
- 7. Maximum Two Years Operating Costs for Service-Based Projects: Unless otherwise specified in policies #22 through #33, TFCA County Program Manager Funds may be used to support up to two years of operating costs for service-based projects (e.g., ridesharing, shuttle and feeder bus service). Grant applicants that seek TFCA funds for additional years must reapply for funding in the subsequent funding cycles.

APPLICANT IN GOOD STANDING

8. Independent Air District Audit Findings and Determinations: Grantees who have failed either the financial statement audit or the compliance audit for a prior TFCA-funded project awarded by either County Program Managers or the Air District are excluded from receiving an award of any TFCA funds for three (3) years from the date of the Air District's final audit determination in accordance with HSC section 44242 or for a duration determined by the Air District Air Pollution Control Officer (APCO). Existing TFCA funds already awarded to the project sponsor will not be released until all audit recommendations and remedies have been satisfactorily implemented. A failed financial statement audit means a final audit report that includes an uncorrected audit finding that confirms an ineligible expenditure of TFCA funds.

A failed compliance audit means that the program or project was not implemented in accordance with the applicable Funding Agreement or grant agreement.

A failed financial statement or compliance audit of the County Program Manager or its grantee may subject the County Program Manager to a reduction of future revenue in an amount equal to the amount which was inappropriately expended pursuant to the provisions of HSC section 44242(c)(3).

- 9. Authorization for County Program Manager to Proceed: Only a fully executed Funding Agreement (i.e., signed by both the Air District and the County Program Manager) constitutes the Air District's award of County Program Manager Funds. County Program Managers may incur costs (i.e., contractually obligate itself to allocate County Program Manager Funds) only after the Funding Agreement with the Air District has been executed.
- 10. **Maintain Appropriate Insurance:** Both the County Program Manager and each grantee must obtain and maintain general liability insurance, workers compensation insurance, and additional insurance as appropriate for specific projects, with required coverage amounts provided in Air District guidance and final amounts specified in the respective grant agreements.

INELIGIBLE PROJECTS

- 11. **Duplication:** Projects that have previously received TFCA Regional or County Program Manager funds and do not propose to achieve additional emission reductions are not eligible.
- 12. **Planning Activities:** The costs of preparing or conducting feasibility studies are not eligible. Planning activities are not eligible unless they are directly related to the implementation of a specific project or program.
- 13. Reserved.
- 14. Cost of Developing Proposals: The costs to prepare grant applications are not eligible.

USE OF TFCA FUNDS

- 15. **Combined Funds**: TFCA County Program Manager Funds may not be combined with TFCA Regional Funds to fund a County Program Manager Fund project. Projects that are funded by the TFCA County Program Manager Fund are not eligible for additional funding from other funding sources that claim emissions reduction credits. However, County Program Manager-funded projects may be combined with funds that do not require emissions reductions for funding eligibility.
- 16. Administrative Costs: The County Program Manager may not expend more than 6.25 percent of its County Program Manager Funds for its administrative costs. The County Program Manager's costs to prepare and execute its Funding Agreement with the Air District are eligible administrative costs. Interest earned on County Program Manager Funds shall not be included in the calculation of the administrative costs. To be eligible for reimbursement, administrative costs must be clearly identified in the expenditure plan application and in the Funding Agreement, and must be reported to the Air District.
- 17. Expend Funds within Two Years: County Program Manager Funds must be expended within two (2) years of receipt of the first transfer of funds from the Air District to the County Program Manager in the applicable fiscal year, unless a County Program Manager has made the determination based on an application for funding that the eligible project will take longer than two years to implement. Additionally, a County Program Manager may, if it finds that significant progress has been made on a project, approve no more than two one-year schedule extensions for a project. Any subsequent schedule extensions for projects can only be given on a case-by-case basis, if the Air District finds that significant progress has been made on a project, and the Funding Agreement is amended to reflect the revised schedule.

- 18. Unallocated Funds: Pursuant to HSC 44241(f), any County Program Manager Funds that are not allocated to a project within six months of the Air District Board of Directors approval of the County Program Manager's Expenditure Plan may be allocated to eligible projects by the Air District. The Air District shall make reasonable effort to award these funds to eligible projects in the Air District within the same county from which the funds originated.
- 19. Reserved.
- 20. Reserved.
- 21. Reserved.

ELIGIBLE PROJECT CATEGORIES

Clean Air Vehicle Projects

22. Alternative Fuel Light-Duty Vehicles:

These projects are intended to accelerate the deployment of qualifying alternative fuel vehicles that operate within the Air District's jurisdiction. All of the following conditions must be met for a project to be eligible for TFCA funds:

- a. Vehicles must be new (model year 2020 or newer), and have a gross vehicle weight rating (GVWR) of 8,500 lbs. or lower.
- b. Vehicles must be:
 - i. hybrid-electric, electric, or fuel cell vehicles that are approved by the California Air Resources Board (CARB) for on-road use
 - ii. neighborhood electric vehicles (NEV) as defined in the California Vehicle Code.
- c. Vehicles must be maintained and operated within the Air District's jurisdiction.
- d. The amount of TFCA funds awarded may not exceed 90% of the project's cost after all other grants and applicable manufacturer and local/state/federal rebates and discounts are applied.

Vehicles that are solely powered by gasoline, diesel, or natural gas, and retrofit projects are not eligible.

Grantees may request authorization of up to 100% of the TFCA Funds awarded for each vehicle to be used to pay for costs directly related to the purchase and installation of alternative fueling infrastructure and/or equipment used to power the new vehicle.

23. Reserved.

24. Alternative Fuel Heavy-Duty Vehicles and Buses:

These projects are intended to accelerate the deployment of qualifying alternative fuel vehicles that operate within the Air District's jurisdiction by encouraging the replacement of older, compliant trucks and buses with the cleanest available technology. If replacing heavy-duty vehicles and buses with light-duty vehicles must meet Policy #22. All of the following conditions must be met for a project to be eligible for TFCA Funds:

- a. Each vehicle must be new and have a GVWR greater than 8,500 lbs.
- b. Eligible vehicles must be approved by the CARB.
- c. Vehicles must be maintained and operated within the Air District's jurisdiction.

d. The total amount of TFCA funds awarded combined with all other grants and applicable manufacturer and local/state/federal rebates and discounts may not exceed 90% of the project's eligible cost

Vehicles that are solely powered by gasoline, diesel, or natural gas and retrofit projects are not eligible.

Grantees may request authorization of up to 100% of the TFCA Funds awarded for each vehicle to be used to pay for costs directly related to the purchase and installation of alternative fueling infrastructure and/or equipment used to power the new vehicle.

Projects that seek to replace a vehicle in the same weight-class as the proposed new vehicle, may qualify for additional TFCA funding. Costs related to the scrapping and/or dismantling of the existing vehicle are not eligible for reimbursement with TFCA funds.

25. **On-Road Goods Movement Truck Replacements:** The project will replace Class 6, Class 7, and Class 8 diesel-powered trucks that have a gross vehicle weight rating (GVWR) of 19,501 lbs. or greater (per vehicle weight classification definition used by Federal Highway Administration (FHWA) with new or used trucks that have an engine certified to the 2010 CARB emissions standards or cleaner. Eligible vehicles are those that are used for goods movement as defined by CARB. The existing truck(s) to be replaced must be registered with the California Department of Motor Vehicles (DMV) to an address within the Air District's jurisdiction, and must be scrapped after replacement.

26. Alternative Fuel Infrastructure:

Eligible refueling infrastructure projects include new dispensing and charging facilities, or additional equipment or upgrades and improvements that expand access to existing alternative fuel fueling/charging sites (i.e., electric vehicle, hydrogen). This includes upgrading or modifying private fueling/charging sites or stations to allow public and/or shared fleet access. TFCA funds may be used to cover the cost of equipment and installation. TFCA funds may also be used to upgrade infrastructure projects previously funded with TFCA funds as long as the equipment was maintained and has exceeded the duration of its useful life after being placed into service.

Equipment and infrastructure must be designed, installed, and maintained as required by the existing recognized codes and standards and as approved by the local/state authority.

TFCA funds may not be used to pay for fuel, electricity, operation, and maintenance costs. Projects that include installation of charging stations at multi-dwelling units, transit stations, and park-and-ride lot facilities qualify for funding at a higher cost-effectiveness limit (see Policy #2).

Trip Reduction Projects

27. **Existing Ridesharing Services:** The project will provide carpool, vanpool, or other rideshare services. Projects that provide a direct or indirect financial transit or rideshare subsidy are also eligible under this category. Projects that provide a direct or indirect financial transit or rideshare subsidy *exclusively* to employees of the grantee are not eligible.

28. Existing Shuttle/Feeder Bus Service:

The project will reduce single-occupancy vehicle trips by providing short-distance connections. All of the following conditions must be met for a project to be eligible for TFCA funds:

a. The service must provide direct connections between a mass transit hub (e.g., a rail or Bus Rapid Transit (BRT) station, ferry or bus terminal, or airport) and a distinct commercial or employment location.

- b. The service's schedule, which is not limited to commute hours, must be coordinated to have a timely connection with corresponding mass transit service.
- c. The service must be available for use by all members of the public.
- d. TFCA funds may be used to fund only shuttle services to locations that are under-served and lack other comparable service. For the purposes of this policy, "comparable service" means that there exists, either currently or within the last three years, a direct, timed, and publicly accessible service that brings passengers to within one-third (1/3) mile of the proposed commercial or employment location from a mass transit hub. A proposed service will not be deemed "comparable" to an existing service if the passengers' proposed travel time will be at least 15 minutes shorter and at least 33% shorter than the existing service's travel time to the proposed destination.
- e. Reserved.
- f. Grantees must be either: (1) a public transit agency or transit district that directly operates the shuttle/feeder bus service; or (2) a city, county, or any other public agency.
- g. Applicants must submit a letter of concurrence from all transit districts or transit agencies that provide service in the area of the proposed route, certifying that the service does not conflict with existing service.
- Each route must meet the cost-effectiveness requirement in Policy #2. Projects that would operate in Highly Impacted Communities or Episodic Areas as defined in the Air District Community Air Risk Evaluation (CARE) Program, or in Priority Development Areas (PDAs), may qualify for funding at a higher cost-effectiveness limit (see Policy #2).

29. Pilot Projects:

a. Pilot Shuttle/Feeder Bus Service Projects:

These projects are new shuttle/feeder bus service routes that are at least 70% unique and where no other service was provided within the past three years. In addition to meeting the conditions listed in Policy #28.a.-h. for shuttle/feeder bus service, project applicants must also comply with the following application criteria and agree to comply with the project implementation requirements:

- i. Demonstrate the project will reduce single-occupancy vehicle trips and result in a reduction in emissions of criteria pollutants.
- ii. Provide data and/or other evidence demonstrating the public's need for the service, including a demand assessment survey and letters of support from potential users.
- iii. Provide a written plan showing how the service will be financed in the future and require minimal, if any, TFCA funds to maintain its operation after the pilot period;
- iv. Provide a letter from the local transit agency denying service to the project's proposed service area, which includes the basis for denial of service to the proposed areas. The applicant must demonstrate that the project applicant has attempted to coordinate service with the local service provider and has provided the results of the demand assessment survey to the local transit agency. The applicant must provide the transit service provider's evaluation of the need for the shuttle service to the proposed area. Pilot projects located in Highly Impacted Communities as defined in the Air District CARE Program and/or a Planned or Potential PDA may receive a maximum of three years of TFCA Funds under the Pilot designation. For these projects, the project applicants understand and must agree that such projects will be

evaluated every year, and continued funding will be contingent upon the projects meeting the following requirements:

- 1. During the first year and by the end of the second year of operation, projects must not exceed a cost-effectiveness of \$500,000/ton, and
- 2. By the end of the third year of operation, projects must meet all of the requirements, including cost-effectiveness limit, of Policy #28.a.-h. (existing shuttles).
- v. Projects located outside of CARE areas and PDAs may receive a maximum of two years of TFCA Funds under this designation. For these projects, the project applicants understand and must agree that such projects will be evaluated every year, and continued funding will be contingent upon the projects meeting the following requirements:
 - 1. By the end of the first year of operation, projects shall meet a cost-effectiveness of \$250,000/ton, and
 - 2. By the end of the second year of operation, projects shall meet all of the requirements, including cost-effectiveness limit, of Policy #28.a.-h. (existing shuttles).

b. Pilot Trip Reduction:

The project will reduce single-occupancy commute-hour vehicle trips by encouraging modeshift to other forms of shared transportation. Pilot projects are defined as projects that serve an area where no similar service was available within the past three years, or will result in significantly expanded service to an existing area. Funding is designed to provide the necessary initial capital to a public agency for the start-up of a pilot project so that by the end of the third year of the trip reduction project's operation, the project will be financially self-sustaining or require minimal public funds, such as grants, to maintain its operation. All the following conditions must be met for a project to be eligible for TFCA funds:

- i. Applicants must demonstrate the project will reduce single-occupancy commutehour vehicle trips and result in a reduction in emissions of criteria pollutants;
- ii. The proposed service must be available for use by all members of the public;
- iii. Applicants must provide a written plan showing how the service will be financed in the future and require minimal, if any, TFCA funds to maintain its operation by the end of the third year;
- iv. If the local transit provider is not a partner, the applicant must demonstrate that they have attempted to have the service provided by the local transit agency. The transit provider must have been given the first right of refusal and determined that the proposed project does not conflict with existing service;
- v. Applicants must provide data and any other evidence demonstrating the public's need for the service, including a demand assessment survey and letters of support from potential users;
- vi. Pilot trip reduction projects that propose to provide ridesharing service projects must comply with all applicable requirements in policy #27.

30. Bicycle Projects:

New bicycle facility projects or upgrades to an existing bicycle facility that are included in an adopted countywide bicycle plan, Congestion Management Program (CMP), countywide transportation plan (CTP), city plan, or the Metropolitan Transportation Commission's (MTC) Regional Bicycle Plan are eligible

to receive TFCA funds. Projects that are included in an adopted city general plan or area-specific plan must specify that the purpose of the bicycle facility is to reduce motor vehicle emissions or traffic congestion.

a. Bicycle Parking:

The project will expand the public's access to bicycle parking. The electronic bicycle lockers and bicycle racks must be publicly accessible and available for use by all members of the public.

Eligible projects are limited to the following types of bike parking facilities that result in motor vehicle emission reductions:

- i. Bicycle racks, including bicycle racks on transit buses, trains, shuttle vehicles, and ferry vessels;
- ii. Electronic bicycle lockers;
- iii. Capital costs for attended bicycle storage facilities; and
- iv. Purchase of two-wheeled or three-wheeled vehicles (self-propelled or electric), plus mounted equipment required for the intended service and helmets.

b. Bikeways:

- i. Class I Bikeway (bike path), new or upgrade improvement from Class II or Class III bikeway;
- ii. New Class II Bikeway (bike lane);
- iii. New Class III Bikeway (bike route);
- iv. Class IV Bikeway (separated bikeway), new or upgrade improvement from Class II or Class III bikeway;

All bicycle facility projects must, where applicable, be consistent with design standards published in the California Highway Design Manual, or conform to the provisions of the Protected Bikeway Act of 2014.

31. Bike Share:

Projects that make bicycles available to individuals for shared use for completing first- and last-mile trips in conjunction with regional transit and stand-alone short distance trips are eligible for TFCA funds, subject to all of the following conditions:

- a. Projects must either increase the fleet size of existing service areas or expand existing service areas to include new Bay Area communities.
- b. Projects must have a completed and approved environmental plan and a suitability study demonstrating the viability of bicycle sharing.
- c. Projects must have shared membership and/or be interoperable with the Bay Area Bike Share (BABS) project when they are placed into service, in order to streamline transit for end users by reducing the number of separate operators that would comprise bike trips. Projects that meet one or more of the following conditions are exempt from this requirement:
 - i. Projects that do not require membership or any fees for use, or

- ii. Projects that were provided funding under MTC's Bike Share Capital Program to start a new or expand an existing bike share program; or.
- iii. Projects that attempted to coordinate with, but were refused by, the current BABS operator to have shared membership or be interoperable with BABS. Applicants must provide documentation showing proof of refusal.

Projects may be awarded FYE 2021 TFCA funds to pay for up to five years of operations.

32. Arterial Management:

Arterial management grant applications must identify a specific arterial segment and define what improvement(s) will be made to affect traffic flow on the identified arterial segment. Projects that provide routine maintenance (e.g., responding to citizen complaints about malfunctioning signal equipment) are not eligible to receive TFCA funds. Incident management projects on arterials are eligible to receive TFCA funds. Transit improvement projects include, but are not limited to, bus rapid transit and transit priority projects. Signal timing projects are eligible to receive TFCA funds. Each arterial segment must meet the cost-effectiveness requirement in Policy #2.

33. Smart Growth/Traffic Calming:

Physical improvements that support development projects and/or calm traffic, resulting in motor vehicle emission reductions, are eligible for TFCA funds, subject to the following conditions:

- a. The development project and the physical improvements must be identified in an approved area-specific plan, redevelopment plan, general plan, bicycle plan, pedestrian plan, traffic-calming plan, or other similar plan.
- b. The project must implement one or more transportation control measures (TCMs) in the most recently adopted Air District plan for State and national ambient air quality standards. Pedestrian projects are eligible to receive TFCA funds.
- c. The project must have a completed and approved environmental plan. If a project is exempt from preparing an environmental plan as determined by the public agency or lead agency, then that project has met this requirement.

Traffic calming projects are limited to physical improvements that achieve motor vehicle emission reductions by designing and improving safety conditions for pedestrians, bicyclists or transit riders in residential retail, and employment areas.

Appendix E: Glossary of Terms

The following is a glossary of terms found in the TFCA County Program Policies:

<u>Community Air Risk Evaluation (CARE) Areas</u> – Areas identified where air pollution contributes most to health impacts and where populations are most vulnerable to air pollution.

Environmental plan - A completed and approved plan to mitigate environmental impacts as required by the result of the review process of all applicable local, state, and federal environmental reviews (e.g., CEQA, NEPA). For the purpose of the County Program Manager Fund, projects requiring a completed and approved environmental plan must complete all required environmental review processes. Any project that is exempt from preparing an environmental plan, as determined by an environmental review process, has met the requirement of having a completed and approved environmental plan.

Final audit determination - The determination by the Air District of a County Program Manager or grantee's TFCA program or project, following completion of all procedural steps set forth in HSC section 44242(a) – (c).

Funding Agreement - The agreement executed by and between the Air District and the County Program Manager for the allocation of TFCA County Program Manager Funds for the respective fiscal year.

Grant Agreement - The agreement executed by and between the County Program Manager and a grantee.

Grantee - Recipient of an award of TFCA Funds from the County Program Manager to carry out a TFCA project and who executes a grant agreement with the County Program Manager to implement that project. A grantee is also known as a project sponsor.

Implementation Period – Status starts once Grant Agreement has been executed and project is being implemented. Status ends once Operational Period starts, i.e. once a service project starts its operation, a vehicle/equipment/facility project is purchased, installed, constructed, and placed into public service.

Operational Period –This status starts once a project has completed installation/construction/ procurement and has placed equipment/vehicles/facilities into public service and ends once years effectiveness has been met. For service projects, the operational period starts when the project starts providing service and ends once project has met its years effectiveness.

Priority Development Areas (PDAs) – Areas within existing communities that local city or county governments have identified and approved for future growth. These areas typically are accessible by one of more transit services, and are often located near established job centers, shipping districts, and other services.

Project Useful Life (see Years Effectiveness)

TFCA funds - Grantee's allocation of funds, or grant, pursuant to an executed grant agreement awarded pursuant to the County Program Manager Fund Funding Agreement.

TFCA-generated funds - The Transportation Fund for Clean Air (TFCA) program funds generated by the \$4 surcharge on motor vehicle registration fees that are allocated through the Regional Fund and the County Program Manager Fund.

Weighted PM10 - Weighted particulate matter less than 10 microns in diameter (PM10) is calculated by multiplying the tailpipe PM emissions by a factor of 20, which is consistent with CARB methodology for estimating PM10 emissions for the Carl Moyer Program.

Years Effectiveness - Equivalent to the administrative period of the grant and used in calculating a project's Cost Effectiveness. This is different than how long the project will physically last.

Appendix F: Insurance Guidelines

This appendix provides guidance on the insurance coverage and documentation typically required for TFCA County Program Manager Fund projects. Note that the Air District reserves the right to specify different types or levels of insurance in the Funding Agreement.

The typical Funding Agreement requires that each Grantee provide documentation showing that they meet the following requirements for each of their projects. The County Program Manager is not required to meet these requirements itself, unless it is acting as a Grantee.

1. Liability Insurance:

<u>Corporations and Public Entities</u> - a limit of not less than \$1,000,000 per occurrence. Such insurance shall be of the type usual and customary to the business of the Grantee, and to the operation of the vehicles, engines or equipment operated by the Project Sponsor.

<u>Single Vehicle Owners</u> - a limit of not less than \$750,000 per occurrence. Such insurance shall be of the type usual and customary to the business of the Grantee, and to the operation of the vehicles, engines or equipment operated by the Grantee.

2. Property Insurance:

<u>New Equipment Purchases</u> - an amount of not less than the insurable value of Grantee's vehicles, engines or equipment funded under this Agreement, and covering all risks of loss, damage or destruction of such vehicles, engines or equipment.

<u>Retrofit Projects</u> - 2003 model year vehicles or engines or newer in an amount of not less than the insurable value of Grantee's vehicles, engines or equipment funded under this Agreement, and covering all risks of loss, damage or destruction of such vehicles, engines or equipment.

3. Workers Compensation Insurance:

<u>Construction projects</u> – including but not limited to bike/pedestrian paths, bike lanes, smart growth and vehicle infrastructure, as required by California law and employers' insurance with a limit not less than \$1 million.

4. Acceptability of Insurers:

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A: VII. The Air District may, at its sole discretion, waive or alter this requirement or accept self-insurance in lieu of any required policy of insurance.

The following table lists the type of insurance coverage generally required for each project type. The requirements may differ in specific cases. County Program Managers should contact the Air District liaison with questions, especially about unusual projects.

Project Category	Liability	Property	Workers Compensation
Vehicle purchase and lease	Х	х	
Engine retrofits	Х	х	
Operation of shuttle services	Х		Х
Operation of vanpools	Х		
Construction of bike/pedestrian path or overpass	Х		Х
Construction of bike lanes	Х		Х
Construction of cycle tracks/separated bikeways	Х		Х
Construction of smart growth/traffic calming projects	Х		Х
Construction of vehicle fueling/charging infrastructure	Х	Х	Х
Arterial management/signal timing	Х		Х
Purchase and installation of bicycle lockers and racks	Х	Х	Х
Transit marketing programs	Х		
Ridesharing projects	Х		Х
Bike Share projects	Х	х	Х
Transit pass subsidy or commute incentives	Х		
Guaranteed Ride Home Program	Х		

Appendix G: Sample Project Information Form

A. Project Number: <u>21XX01</u>

Use consecutive numbers for projects funded, with year, county code, and number, e.g., 21MAR01, 21MAR02 for Marin County. Zero (e.g., 21MAR00) is reserved for County Program Manager TFCA funds allocated for administration costs.

B. Project Title: _____

Provide a concise, descriptive title for the project (e.g., "Elm Ave. Signal Interconnect" or "Purchase Ten Gasoline-Electric Hybrid Light-Duty Vehicles").

- C. TFCA County Program Manager Funds Allocated: \$_____
- D. TFCA Regional Funds Awarded (if applicable): \$_____
- E. Total TFCA Funds Allocated (sum of C and D): \$_____
- F. Total Project Cost: \$_____
- G. Project Description:

Grantee will use TFCA funds to ______. Include information sufficient to evaluate the eligibility and cost-effectiveness of the project. Examples of the information needed include but are not limited to: what will be accomplished by whom, how many pieces of equipment are involved, how frequently it is used, the location, the length of roadway segments, the size of target population, etc. Background information should be brief. For shuttle/feeder bus projects, indicate the hours of operation, frequency of service, and rail station and employment areas served.

H. Final Report Content: Final Report form and final Cost Effectiveness Worksheet

Reference the appropriate Final Report form that will be completed and submitted after project completion. See <u>www.baaqmd.gov/tfca4pm</u> for a listing of the following reporting forms:

- Trip Reduction
- Clean Air Vehicles
- Bicycle Projects
- Arterial Management Projects
- Repower and Retrofit
- *I.* Attach a completed Cost-Effectiveness Worksheet and any other information used to evaluate the proposed project. *For example, for vehicle projects, include the California Air Resources Board Executive Orders for all engines and diesel emission control systems. Note, Cost-Effectiveness Worksheets are not needed for TFCA County Program Managers' own administrative costs.*
- J. Comments (if any):

Add any relevant clarifying information in this section.

Appendix H: Instructions for Cost-Effectiveness Worksheets

Cost-Effectiveness Worksheets are used to calculate project emission reductions and TFCA cost-effectiveness (TFCA \$/ton of emission reductions). County Program Managers must submit Cost-Effectiveness Worksheets for each new project and each project receiving additional TFCA funds, along with Project Information Forms, no later than six months after Air District Board approval of the County Program Manager's Expenditure Plan. County Program Managers must also submit Worksheets with Final Report Forms as follows:

- For projects that provide a service (e.g., ridesharing, shuttle, bike share projects), post-project evaluations should be completed using the Cost-Effectiveness Worksheet version from the year service was available to the public. (This version may be the same as the one used in the pre-project evaluation).
- For all other projects, post-project evaluations should be completed using the version of the Cost-Effectiveness Worksheet for the year the purchased, installed, or constructed project became available for use by the public.

The Air District provides Microsoft Excel worksheets for download on their Box account (link is provided via email to the County Program Managers). Worksheets must be completed for all project types with the exception of TFCA County Program Manager administrative costs.

Worksheet Name	Project Type
Trip Reduction FYE 2021	 Ridesharing Shuttles Bicycle, Bike Share Smart Growth, Traffic Calming, Transit Bus Signal Priority (also for Transit Rail Vehicles) Pilot Trip Reduction
Arterial Management FYE 2021	Arterial Management: Signal Timing
LD & HD Vehicle FYE 2021	Alternative-Fuel Light-Duty and Light Heavy-Duty Vehicles
Heavy-Duty Vehicle FYE 2021	 Alternative-Fuel Low-Mileage Utility Trucks - Idling Service Alternative-Fuel Heavy-Duty Vehicles, Buses
EV Infrastructure FYE 2021	Alternative Fuel Infrastructure

Make entries in the yellow-shaded areas only in the worksheets. Begin each new filename with the application number (e.g., 21MAR04) as described below. Each worksheet contains separate tabs for: Instructions (no user input), General Information, Calculations, Notes and Assumptions, and Emission Factors (no user input).

County Program Managers must provide all relevant assumptions used to determine the project's costeffectiveness in the Notes & Assumptions tab. If a County Program Manager seeks to use different default values or methodologies, it is advisable that they consult with the Air District before project approval, in order to avoid the risk of funding projects that are not eligible for TFCA funds.

The Air District encourages County Program Managers to assign the shortest duration possible for the # Years of Effectiveness value for a project to meet the cost-effectiveness requirement. This practice will help to minimize both the Grantee and County Program Manager's administrative burdens.

Instructions Specific to Each Project Type

Ridesharing and Shuttle Projects

Two key components in calculating cost-effectiveness are the number of vehicle trips eliminated per day and the trip length. The number of vehicle trips eliminated is the number of trips by participants that would have driven as a single occupant vehicle if not for the service; *it is not the same as the total number of riders or participants*. A frequently used proxy is the percentage of survey respondents who report that they would have driven alone if not for the service provided. For calculating the length of trip, only use the length of the vehicle trip avoided by only the riders that otherwise would have driven alone.

In addition, **each shuttle route must meet the cost-effectiveness criteria** (Policy #2). If a project consists of more than one route, one worksheet should be submitted with all routes listed, <u>and</u> a separate worksheet must be prepared showing the cost-effectiveness of each route (i.e., as determined by that route's ridership, funding allocation, etc.).

Annually funded service projects with a one-year project useful life and that do propose surplus emissions reduction may continue receiving funds.

Note that MTC's regional rideshare program (i.e., 511.org) provides funding to counties. This funding may also contain some TFCA funding, which, if used in combination with this TFCA funding, may violate Policy 11. Duplication.

Pilot Trip Reduction Projects

Two key components in calculating cost-effectiveness are the number of vehicle trips eliminated per day and the trip length. The number of vehicle commute trips eliminated is the number of trips by participants that would have driven as a single occupant vehicle if not for the service; *it is not the same as the total number of riders or participants*. If a survey was conducted on potential demand, a frequently used proxy is the percentage of survey respondents who report that they would have driven alone if not for the service provided. If survey data is not available, alternative supporting documentation must be provided to justify the inputs used in the cost-effectiveness worksheet. For calculating the length of trip, only use the length of the vehicle trip avoided by only the riders that otherwise would have driven alone.

Arterial Management Projects

Please note that **each segment must meet the cost-effectiveness criteria** (Policy #2). If a project consists of more than one segment being considered for funding, one worksheet should be submitted with all segments listed, <u>and</u> a separate worksheet must be prepared showing the cost-effectiveness of each segment (i.e., as determined by that segment's traffic speed improvements, funding allocation, etc.).

For a signal timing project to qualify for four (4) years of effectiveness, the signals must be retimed after two (2) years.

Transit Signal Priority

For the length of trip, a good survey practice is to determine the length of automobile trip avoided by just those riders that otherwise would have driven, rather than by all riders.

Smart Growth and Traffic Calming

Projects must reduce vehicle trips by increasing pedestrian/bicycle travel and transit use. Projects that only involve slowing automobile traffic briefly (e.g., via speed bumps) tend to not be cost-effective, as the acceleration following deceleration increases emissions. Due to the variety of potential Smart Growth and Traffic Calming projects, there currently are no default assumptions provided for emission reduction inputs aside from years of effectiveness. A primary component in calculating cost-effectiveness is the number of vehicle trips eliminated as a result of the project.

Vehicle and Fueling Infrastructure Projects

The investment in each individual vehicle must be shown to be cost-effective (Policy #2). The worksheet calculates the cost-effectiveness of each vehicle separately, so only one worksheet is required when more than one vehicle is being considered for funding.

TFCA Policies require that all projects including those subject to emission reduction regulations, contracts, or other legally binding obligations achieve *surplus* emission reductions—that is, reductions that go beyond what is required. Therefore, vehicles with engines certified as Family Emission Limit (FEL) engines are not eligible for funding because the engine is certified for participation in an averaging, banking, and trading program in which emission benefits are already claimed by the manufacturer.

Because TFCA funds may only be used to fund early-compliance emissions reductions, and because of the various fleet rule requirements, calculating cost-effectiveness for vehicle grant projects can be complex, and it is recommended that it be done only by someone familiar with all applicable regulations and certifications. Additionally, electric vehicle infrastructure generally does not qualify for more than \$3,000 per single-port Level 2 (6.6KW) charging station, \$4,000 per dual-port Level 2 charging station, and \$18,000 per DC fast charging station; County Program Managers should consult with the Air District on such projects, as the evaluation methodologies are evolving. Also, any questions should be raised to Air District staff well before project approval deadlines in order to assure project eligibility. Below is general guidance for charging type based on the duration the vehicle is parked at that specific location:

Category	Typical Venues	Available Charging Time	Charging Method (Primary/Secondary)
Opportunity and	 Shopping Centers 	0.5 – 2 hours	Level 2/DC Fast
Destination	 Airport (short term parking) 	< 1 hour	Level 2/DC Fast
	• Other	< 1 hour	Level 2/DC Fast
	Cultural and Sports Centers	2 – 5 hours	Level 2/Level 1
	 Parking Garages 	2 – 10 hours	Level 2/Level 1
	Hotels/Recreation Sites	4 – 72 hours	Level 2/Level 1
	• Airports (long term parking)	8 – 72+ hours	Level 1/Level 2
Corridor/Pathway	 Interstate Highways 	< 0.5 hours	DC Fast/
	• Commuting/Recreation Roads	< 0.5 hours	DC Fast/Level 2
Emergency	• Fixed	< 0.1 hours	DC Fast
	• Mobile	< 1 hour	Level 2/DC Fast

For more information, please refer to the Bay Area EV Readiness Plan.

The cost-effectiveness of fueling infrastructure is based on the vehicles that will use the funded facility. For these projects, County Program Managers must exercise care that emission reductions from the associated vehicles are only credited towards a TFCA infrastructure project, and are not

double counted in any other Air District grant program, either at the present time or for future vehicles that will use the facility during its years effectiveness.

The total mileage a vehicle can travel may be limited by regulation, and the product of Years of Effectiveness and Average Annual Miles cannot exceed that mileage (e.g., some cities limit the lifetime miles a taxicab can travel).

Heavy-duty vehicle and infrastructure projects: The California Air Resources Board (CARB) Carl Moyer Program Guidelines document is the source for the formulas and factors used in the Heavy-Duty Vehicle worksheet. The full documentation is available Note that there are some differences between the TFCA and Moyer programs; consult Air District staff with any questions. At a minimum, a funded vehicle must have an engine complying with the model year 2010 and later emission standards. Vehicles that are funded by the TFCA shall not be co-funded with other funding sources that claim emissions credits. At this time, vehicles that are funded by the CARB (e.g., Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project [HVIP]), Carl Moyer, or other Air District grant programs are not eligible for additional funding from TFCA.

Documentation and Recordkeeping

Beginning in FYE 2012, Project files must be maintained by County Program Managers and Grantees for a minimum of *five years* following completion of the Project Years Effectiveness, versus three years as before. Project files must contain all related documentation including copies of CARB executive orders, quotes, mileage logs, fuel usage (if cost-effectiveness is based on fuel use), photographs of engines and frames that were required to be scrapped, and financial records, in order to document the funding of eligible and cost-effective projects.

Guidance on inputs for the worksheets are as follows:

Instructions Tab

Provides instructions applicable to the relevant project type(s).

General Information Tab

Project Number, which has three parts:

1st – fiscal year in which project will be funded (e.g., 21 for FYE 2021).

2nd – County Program Manager; use the following abbreviations:

ALA – Alameda	CC – Contra Costa	MAR – Marin
NAP – Napa	SF – San Francisco	SM – San Mateo
SC – Santa Clara	SOL – Solano	SON – Sonoma

3rd – two-digit number identifying project; 00 is reserved for County Program Manager administrative costs.

Example: 20MAR04 = fiscal year ending **2021**, **Mar**in, Project **#04**.

Project Title: Short and descriptive title of project, matching that on the Project Information Form.

Project Type Code: Insert *one and only one* of the following codes for the corresponding project type. If a project has multiple parts, use the code for the main component. Note that not all listed project types may be allowed in the current funding cycle.

Code	Project Type	Code	Project Type
0	Administrative costs	6c	Shuttle services – NG powered
1a	NG buses (transit or shuttle buses)	6d	Shuttle services – EV powered
1b	EV buses	6e	Shuttle services – Fuel cell powered
1c	Hybrid buses	6f	Shuttle services – Hybrid vehicle
1d	Fuel cell buses	6g	Shuttle services – Other fuel type
1e	Buses – Alternative fuel	6h	Shuttle services w/TFCA purchased retrofit
2a	NG school buses	6i	Shuttle services – fleet uses various fuel types
2b	EV school buses	7a	Class 1 bicycle paths
2c	Hybrid school buses	7b	Class 2 bicycle lanes
2d	Fuel cell school buses	7c	Class 3 bicycle routes, bicycle boulevards
2e	School buses – Alternative fuel	7d	Bicycle lockers and cages
3a	Other heavy-duty – NG (street sweepers,	7e	Bicycle racks
54	garbage trucks)	_	
3b	Other heavy-duty – EV	7f	Bicycle racks on buses
3c	Other heavy-duty – Hybrid	7g	Attended bicycle parking ("bike station")
3d	Other heavy-duty – Fuel cell	7h	Other type of bicycle project (e.g., bicycle loop
			detectors)
3e	Other heavy-duty - Alternative fuel (High	7i	Bike share
	Mileage)		
3f	Other heavy-duty - Alternative fuel (Low Mileage)	7j	Class 4 cycle tracks or separated bikeways
4a	Light-duty vehicles – NG	8a	Signal timing (Regular projects to speed traffic)
4b	Light-duty vehicles – EV	8b	Arterial Management – transit vehicle priority
40 40	Light-duty vehicles – Hybrid	8c	Bus Stop Relocation
4d	Light-duty vehicles – Fuel cell	8d	Traffic roundabout
4e	Light-duty vehicles – Other clean fuel	9a	Smart growth – traffic calming
5a	Implement TROs (pre-1996 projects only)	9b	Smart growth – pedestrian improvements
5b	Regional Rideshare Program	9c	Smart growth – other types
5c	Incentive programs (for any alternative mode)	10a	Rail-bus integration
5d	Guaranteed Ride Home programs	10b	Transit information / marketing
	Ridesharing – Vanpools (if cash incentive only,		Telecommuting demonstration
5e	use 5c)	11a	
5f	Ridesharing – School carpool match	11b	Congestion pricing demonstration
5g	Other ridesharing / trip reduction projects	11c	Other demonstration project
5h	Trip reduction bicycle projects (e.g., police on bikes)	12a	Natural gas infrastructure
6a	Shuttle services – diesel powered	12b	Electric vehicle infrastructure
6b	Shuttle services – gasoline powered	12c	Alternative fuel infrastructure

County:	Use the same abbreviations as used in Project Number.	
Worksheet Calculated by:	Name of person completing the worksheet.	
Date of Submission:	Date submitted to the County Program Manager.	
Project Sponsor Organization:	: Organization responsible for the project.	
Contact Name:	Name of individual responsible for implementing the project. Include all contact information requested (email, phone, address).	

Project Start Date:	Date work begins on a project. Note: Project must meet Readiness Policy (Policy #6).
Project Completion Date:	Date the project was completed.
Final Report to CMA:	Date the Final Report was received by the County Program Manager. Note: County Program Managers must expend funds within two years of receipt, unless an application states that the project will take a longer period of time and is approved by the County Program Manager or the Air District.

Calculations Tab

Because the worksheets have many interrelated formulas and references, users must not add or delete rows or columns, or change any formulas, without consulting with the Air District. Several cells have input choices or information built in, as pull-down menus or comments in Excel. Pull-down menus are accessed by clicking on the cell. Comments are indicated by a small triangle in the upper right corner of a cell, and are made visible by resting the cursor over the cell.

Cost-Effectiveness Inputs

# Years Effectiveness:	Equivalent to the administrative period of the grant. See inputs table below. The best practice is to use shortest value possible.
Total Project Cost:	Total cost of project including TFCA funding, sponsor funding, and funds contributed by other entities. Only include goods and services of which TFCA funding is an integral part.
TFCA Cost:	TFCA 40% County Program Manager Funds and the 60% Regional Funds (if any), listed separately.

Emission Reduction Calculations

Instructions and default values for each project type are provided in the table below. Default values for years of effectiveness are provided for the various project types. There are no defaults for Smart Growth projects, due to the wide variability in these projects.

Notes & Assumptions Tab

Provide an explanation of all assumptions used. If you choose to use assumptions or values different from those defaults values provided in the Air District's guidelines, submit documentation and an explanation about your inputs and assumptions to request approval from the Air District prior to awarding funds to the project.

Emission Factors Tab

This tab contains references for the Calculations tab. No changes shall be made to this tab.

Additional Information for Heavy-duty Vehicle Projects

CARB has adopted a number of standards and fleet rules that limit funding opportunities for on-road heavyduty vehicles. See the below list of CARB rules that affect on-road heavy-duty fleets, followed by a reference sample CARB Executive Order. For assistance in determining whether a potential project is affected, contact Air District staff or consult Carl Moyer Implementation Charts at:

http://www.arb.ca.gov/msprog/moyer/guidelines/supplemental-docs.htm

Vehicle Type	Subject to CARB Fleet Rule?
Urban buses	Fleet Rule for Transit Agencies
Transit Fleet Vehicles	Fleet Rule for Transit Agencies
Solid Waste Collection Vehicles, excluding transfer trucks	Solid Waste Collection Vehicle Regulation
Municipal Vehicles and Utility Vehicles	Fleet Rule for Public Agencies and Utilities
Port and Drayage Trucks	Port Truck Regulation
All other On-road heavy-duty vehicles	On-road Rule

Summary of On-Road Heavy-Duty Fleet Rules

Summary of Maximum Cost-Effectiveness & Years Effectiveness by Project Category

Policy No.	Project Category	Maximum C-E (\$/weighted ton)	Years Effectiveness
22	Alternative Fuel Light-Duty Vehicles	500,000	3 years recommended, 4 years max
23	Reserved	Reserved	Reserved
24	Alternative Fuel Heavy-Duty Vehicles and Buses	500,000	3 years recommended, 4 years max
25	On-Road Goods Movement Truck Replacements	90,000	3 years recommended, 4 years max
26	Alternative Fuel Infrastructure	250,000 500,000*	3 years recommended, 4 years max
27	Ridesharing Projects – Existing	150,000	2 years max
28.ah.	Shuttle/Feeder Bus Service – Existing	200,000; 250,000 for services in CARE Areas or PDAs	2 years max
20 -	Shuttle/Feeder Bus Service – Pilot	Year 1 - 250,000 Year 2 - see Policy #28.ah.	2 years max
29.a.	Shuttle/Feeder Bus Service – Pilot in CARE Areas or PDAs	Years 1 & 2 - 500,000 Year 3 - see Policy #28.ah.	2 years max
29.b.	Pilot Trip Reduction	500,000	2 years max
30	Bicycle Projects Bikeways Bike Parking	500,000 250,000	10 years max 3 years max
31	Bike Share	500,000	5 years max
32	Arterial Management	175,000	2 or 4 years
33	Smart Growth/Traffic Calming	175,000	10 years max

*This higher C-E limit is for projects that install charging stations at multi-dwelling units, transit stations, and park and ride lot facilities.

Emission Reduction Inputs

County Program Managers must describe all relevant assumptions used to determine the project's cost-effectiveness in the Notes & Assumptions tab. If a CPM seeks to use different default values or methodologies, it is advised that the CPM consult with Air District staff, before project approval, to avoid the risk of funding projects that are not eligible for TFCA funds.

Project Type/Worksheet Name	Input Data Needed	Default Assumptions		
Trip Reduction (Existing and	Trip Reduction (Existing and Pilot)			
Worksheet = Trip Reduction FY	Έ 2021			
For Pilot Trip Reduction projec documentation or data. Project Type = 5a-h, 8b, 9a-c, 1				
Ridesharing	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 years		
	# Trips/Day (1-way) eliminated [% of target population (# employees)]	Enter in Step 1-Column A, 1% of target population		
	Days/Yr	Enter in Step 1-Column B, 240 days (max.)		
	Trip Length (1-way)	Step 1-Column C, Default = 16 miles (1-way commute distance from MTC's Commute Profile)		
	# New Trips/Day (1-way) to access transit	Step 2-Column A, Default = 50% of # Trips/Day Eliminated (Step 1-Column A)		
	Days/Yr	Enter in Step 2-Column B, same # as Step 1-Column B		
	Trip Length (1-way)	Enter in Step 2-Column C, Default = 3 miles		
For ridesharing, the default maximum number of vehicle trips reduce		umber of vehicle trips reduced per day is 1% of target population.		
School-Based Ridesharing	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 yrs		
	# Trips/Day (1-way) eliminated [% of target population (total # students)]	Step 1-Column A, No Default		
	Days/Yr	Enter in Step 1-Column B, 180 days (max.)		
	Trip Length (1-way)	Step 1-Column C, 1-3 miles		
	For ridesharing, the default maximum number of vehicle trips reduced per day is 1% of target population.			
Transit Incentive Campaigns	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 yrs		
	# Trips/Day (1-way) eliminated [% of target population]. Use survey data if available.	Step 1-Column A, No default		
	Days/Yr	Enter in Step 1-Column B, 90 days (max.) if # Trips/Day based on % of target population. If # Trips/Day based on participants, 240 days (max).		

	-	
	Trip Length (1-way), based on routes accessed	Step 1-Column C, No Default
	# New Trips/Day (1-way) to access transit	Step 2-Column A, 50% of # Trips/Day Eliminated (Step 1-Column A)
	Days/Yr (new trips)	Enter in Step 2-Column B - same as # days used in Step 1
	Trip Length (1-way) for new trips	Step 2-Column C, Default = 3 miles
Guaranteed Ride Home	# Years Effectiveness	Enter in Cost Effectiveness Inputs, up to 2 years
Programs	# Trips/Day (1-way) eliminated	Enter in Step 1-Column A, 0.2% of target population.
	Days/Yr	Enter in Step 1-Column B, 240 days (Max.)
	Trip Length (1-way)	Step 1-Column C, Default = 16 miles
Transit Vehicle Signal	# Years Effectiveness	Enter in Cost Effectiveness Inputs, 2 yrs
Prioritization	# Trips/Day (1-way) eliminated	Step 1-Column A, No Default
	Days/Yr	Enter in Step 1-Column B, 240 days (max)
	Trip Length (1-way)	Step 1-Column C, No Default
		Step 2-Column A, 50% of # Trips/Day Eliminated (Step 1-Column A)
		Step 2-Column B, same as Step 1-Column B
		Enter in Step 2-Column C, 3 miles
Smart Growth/Traffic Calming Note: Default assumption available for Years of Effectiveness only. Provide detailed explanations (in Notes and Assumptions tab) of assumptions used for	# Years Effectiveness	Enter in Cost Effectiveness Inputs, 10 years max
other inputs. Project Type =6a-i, 10a-b		
Shuttle/Feeder Bus, Rail-Bus	# Years Effectiveness	Cost Effectiveness Inputs, up to 2 years
Integration, and Transit	# Trips/Day (1-way) eliminated trips.	Step 1-Column A
Information Systems	Trips only from riders who previously would have driven.	
		For on-going service, use survey results
		For new service, use 50% of daily seating capacity of vehicle * 67% (% single-occupancy vehicles (SOV) from MTC Commuter Profile)
	Days/Yr eliminated trips	Step 1-Column B, Enter number of operating days. Default =240 days/yr.

and i rogram tranager i and Experiature i ian Guidance i i E 2021	
Trip Length (1-way) eliminated trips.Average trip length that will beeliminated due to shuttle passengerstaking train/ferry in conjunction withthe shuttle.	Enter in Step 1-Column C, a survey-based distance, or, if no survey, 16 miles for shuttles and 35 miles for vanpools
# Trips/Day (1-way) new trips to access transit	Step 2-Column A, Use survey data or, if none, a default is 50% of # Trips/Day Eliminated (Step 1-Column A)
Days/Yr new trips	Enter in Step 2-Column B, same # as in Step 1-Column B.
Trip Length (1-way) new trips. Average trip length of shuttle passengers that drive from home to the BART/Caltrain station.	Enter in Step 2-Column C, a survey-based distance, or, if no survey, default is 3 miles for home-to-rail trips.
	vehicles should be based on the vehicle engine Executive Order. County Program Manager
should consult with Air District staff fo	r guidance. ehicles 14,000 lbs. and lighter. Follow Step 3B for buses
# Vehicles, Model Year: Number of	Step 3A - Column A, no default.
vehicles with same model year	
Emission Std.: Emission Standard from list provided.	3A - Column B, no default.
Vehicle GVW: Weight Class from list provided.	3A Column C, no default.
ROG, NO _x , Exhaust PM ₁₀ , and Total PM ₁₀ Factors: enter factor from appropriate table provided on Emission Factors tab—CARB Table 2 for vehicles model year 2004 and after, or CARB Table 7 for model years 1995-2003.	3A Column D through G, no default
CO₂ Factor: enter factor from CO ₂ Table for Light- and Light Heavy-Duty Shuttles, on Emission Factors tab.	3A Column H, no default.
Total annual VMT = [length of shuttle/van trip (one-way)] X [# one- way trips per day] X [# days of service per year]. For all vehicles listed in Step 3A.	3A Column I, no default.
If a vehicle does not match the factors	provided, County Program Manager should consult with Air District staff.
ROG, NO _x , Exhaust PM ₁₀ , Other PM ₁₀	Step 3B: Columns D through H, no default. Note that Step 3B uses Other PM ₁₀ , not Total
and CO ₂ Factors: enter factor from	PM ₁₀ .

ounty i rogram Munager i una E	xpenditure Plan Guidance FYE 2021	
	Emissions for Buses Table provided on	
	Emission Factors tab.	
	Total annual VMT = [length of	3B Column I, no default.
	shuttle/van trip (one-way)] X [# one-	
	way trips per day] X [# days of service	
	per year]. For all vehicles listed in	
	Step 3B.	
Project Type = 7a-j		
Bicycle Projects (Paths,	.	os reduced for bike paths, lanes, & routes is based on:
Lanes, Routes)	• Facility type (Class 1, 2, 3, or 4)	
	• Length of the project segment	
Notes:	Traffic volume (ADT) on the fac	
	# Years Effectiveness	Enter in Cost Effectiveness Inputs:
 For Class 1 projects, use the ADT on the most 	Class 1 bike path (or bike bridge)	Not to exceed 10 years for Class 1 (trails/paths)
appropriate parallel	Class 2 bike lane	Not to exceed 7 years for Class 2, Class 3 and Class 4
road.	Class 3 bike route	
1000.	Class 4 cycle tracks or separated	
• For gap closure projects	bikeways	
(where project will close	# Trips/Day (1-way) eliminated	Enter in Step 1-Column A:
a gap between two	(depends on length of project	
existing segments of	segment and ADT on project	
bikeway), use the length	segment)	
for the total facility.	Class 1 & Class 2 & Class 4	Length ≤ 1 mile = 0.4% ADT
	ADT ≤ 12,000 vehicles per day	Length >1 and \leq 2 miles = 0.6% ADT
• The maximum number		Length >2 miles = 0.8% ADT
of vehicle trips reduced		
per day is 240. The Air	Class 1 & Class 2 & Class 4	Length ≤ 1 mile = 0.3% ADT
District generally assumes that no bike		6
project will reduce more	ADT > 12,000 and ≤ 24,000	Length > 1 and \leq 2 miles = 0.45% ADT
than 240 vehicle trips		Length > 2 miles = 0.6% ADT
per day.		
	Class 1 & Class 2 & Class 4	Length ≤ 1 mile = 0.25% ADT
	ADT > 24,000 and ≤ 30,000	Length > 1 and \leq 2 miles = 0.35% ADT
	Maximum is 30,000.	Length > 2 miles = 0.45% ADT
	Waximam is 50,000.	
	Class 3 bike route or bicycle blvd	Route ≤ 1 mile = 0.1% ADT
	sides a since route of sloyere bive	Route > 1 and \leq 2 miles = 0.15% ADT
	J	

• • • •		Route > 2 miles = 0.25% ADT				
	Upgraded Class 1 & Upgraded Class 4	Use 10% of the appropriate formula above				
	Days/Yr	Enter in Step 1-Column B, 240 days				
	Trip Length (1-way)	Enter in Step 1-Column C, 3 miles. (Not same as segment length.)				
Disusla Dauking (Lasharra 0						
<u>Bicycle Parking (Lockers &</u> Racks)	# Years Effectiveness	Enter in Cost Effectiveness Inputs, 3 yrs				
<u>Interior</u>	# Trips/Day (1-way) eliminated	Enter in Step 1-Column A:				
		Capacity of lockers x 2 trip/day				
		Capacity of cages x 0.75 trips per day				
		Capacity of racks x 0.5 trips per day				
	Days/Yr	Enter in Step 1-Column B, 240 days				
	Trip Length (1-way)	Enter in Step 1-Column C, 3 miles				
Bike Share	# Years Effectiveness	Enter in Cost Effectiveness Inputs, max. 5 yrs				
	# Trips/Day (1-way) eliminated	Enter in Step 1-Column A:				
		Number of bikes * 1.48 trips per day * 12% (actual vehicle trips replaced based on Shaheen research dated June 2015)				
	Weekdays					
	Days/Yr	Enter in Step 1-Column B, 260 days				
	Trip Length (1-way)	Enter in Step 1-Column C, 16 miles				
	Weekends					
	Days/Yr	Enter in Step 1-Column B, 105 days				
	Trip Length (1-way)	Enter in Step 1-Column C, 3 miles				
Arterial Management						
Worksheet = Arterial Managen	nent FYE 2021					
Project Type = 8a-d						
Arterial Management (Signal	# Years Effectiveness	Enter in Cost Effectiveness Inputs:				
<u>Timing)</u>		For signal timing/synchronization, 2 yrs or, with retiming required at 2 yrs, 4 yrs. Each project should include either 2- or 4-year segments, not both.				
Note: Data for traffic volume	Name of Arterial	Column A: Name of the arterial and the direction of travel.				
and vehicle speed must be generated concurrently (i.e., during the exact same day	Segment Length (miles)	Enter under Column B the length of arterial over which speeds will be increased.				
and time period)	Days/Yr	Enter under Column C the number of days per year over which the project would affect traffic. Default is 240 days.				
	Time Period	Enter under Column D the time period over which the traffic volumes and speed will change (e.g., 4-7 PM). Include all the hours in a period that will benefit, not just the peak hour.				

	Traffic Volume	Enter under Column E the traffic volume before the project for the corresponding Time Period and direction of travel that will make the stated speed change.
	Traffic Speed without the Project	Enter under Column F the average traffic speed along the length of the arterial before implementation of the project.
	Travel Speed with Project	Enter under Column G the average estimated traffic speed along the length of the arterial after implementation of the project. <i>Note: Maximum increase in speed is 25%.</i>
Alternative Fuel Heavy-Dut	y Vehicles and Infrastructure	
Worksheets = Heavy-Duty Veh	icle FYE 2021	
Project Types = 1a-e, 2a-e, 3a-	f, 12a-c	
Alternative Fuel Heavy-Duty	# Years Effectiveness.	Cost Effectiveness Inputs, 3 years is recommended - not to exceed 4 years.
Vehicles and Infrastructure Use separate workbook and	Column B, Unit #: A unique identifier. List each vehicle on a separate row.	Column B: No default
Project # for each set of vehicles with different # Years Effectiveness or with different fuel types.	Columns C through E, Baseline Emission Rate: NO _x , ROG, PM factors: See Moyer Table D-2a/b or D-6, based on your vehicle type, weight, and engine model year.	Columns C through E: For FYE 2019 alt-fuel heavy-duty vehicle projects, including urban buses, the baseline default is the Model Year 2010 emission standards.
	Column F, Annual Fuel Use : Base on average fuel use over 2 years, and document with 2 years of records.	Column F: No default.
	Column G, Fuel Consumption Factor: Moyer Table D-24	Column G: Most on-road engines are below 750 horsepower, thus the default value is 18.5.
	Column H, Conversion Factor (g/mi to g/bhp-hr): Input a value only if Baseline Emission Rates (Columns C – E) are in g/mi and Fuel Basis is being used. Notice: enter data in this column or Column J, not both. Use Moyer Table D-28.	Column H: No default.
	Column I, Annual VMT: Base on average VMT over 2 years, and document with 2 years of mileage records.	Column I: No default.
	Column J, Conversion Factor (g/bhp- hr to g/mi): Input a value only if Baseline Emission Rates (Columns C – E) are in g/bhp-hr. Notice: enter data in this column or Column H, not both. Use Moyer Table D-28.	Column J: No default.

8		
	Column K, Percent operation in Air District: Only the operation within the	Column K: No default.
	Air District's jurisdiction can be	
	counted.	
	Columns L through N, New Emission	Columns L through N: For FYE 2018 heavy-duty vehicle projects, including urban buses, the
	Rate: NO _x , ROG, and PM: Use	new vehicle must be certified to exceed the Model Year 2010 standard of 0.2 g/bhp-hr of
	Executive Order values.	NO_x and 0.01 g/bhp-hr of PM, which are the default values. Some exceptions apply.
	Note: FEL engines are not eligible for TF	CA funding.
	example of an EO is shown at the end of engine family, displacement, horsepower certification emission standards as well purpose of the TFCA Program, the certifi- emission standards are shown in the row instance, the Cummins 8.3 liter natural of methane hydrocarbon (NOx+NMHC) emi- and a particulate matter (PM) emission In the case where an EO shows emission participation in an averaging, banking, of	engine manufacturers with an Executive Order (EO) for each certified engine family. An f this attachment. The EO includes general information about the certified engine such as er rating(s), intended service class, and emission control systems. It also shows the applicable as the average emission levels measured during the actual certification test procedure. For the ication emission standards are used to calculate emission reductions. The certification w titled "(DIRECT) STD" under the respective "FTP" column headings for each pollutant. For gas engine illustrated in the sample was certified to a combined oxides of nitrogen plus non- ission standard of 1.8 g/bhp-hr, a carbon monoxide (CO) emission standard of 15.5 g/bhp-hr, standard of 0.03 g/bhp-hr. values in the rows labeled "AVERAGE STD" and/or "FEL", the engine is certified for and trading (AB&T) program. AB&T engines (i.e., all FEL-certified engines) are not eligible to we whicle purchase projects since emission benefits from an engine certified to an FEL level are
	Column O, Replacement Vehicle	Column O: No Default.
	Cost: Must be supported by a quote	
	for the new alt-fuel vehicle that	
	exceeds standards.	
	Column P , Must be supported by a quote for a new equivalent model vehicle that meets standards (for FYE 2020, the Model Year 2010 Standards).	Column P: No Default.
	Column Q, Fuel Savings.	Column Q: Default value is 0%. For new hybrid vehicles, on a case-by-case basis, the Air District may approve another value, based on documented fuel savings relative to a non- hybrid vehicle.
	Column R, Fuel Consumption Factor: Use Moyer Table D-24.	Column R: Most on-road engines are below 750 horsepower.
	Column S, Conversion Factor (g/mi to g/bhp-hr): Enter a value only if New Emission Rates (Columns L – N) are in g/mi and Fuel Basis is being used. Notice: enter data in this column or	Column S: No default.

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	Column T, not both. Use Moyer Table D-28.	
	Column T, Conversion Factor (g/bhp- hr to g/mi): Enter a value only if New Baseline Emission Rates (Columns L – N) are in g/bhp-hr. Notice: enter data in this column or Column S, not both. Use Moyer Table D-28.	Column T: No default.
	Column Y, # Years Effectiveness:	Column Y: 3 years is recommended - 4 yrs max.
	Same as in Cost Effectiveness Inputs.	
	Columns AB – AG, Emission Reductions.	Columns AB – AG. Calculated automatically. Enter zero (0) if a reduction cannot be claimed.
	All reductions must be surplus to any red	gulatory, contractual, or other legally binding requirement.
	Note that if ROG values are not available emission reductions can be claimed.	e for both the baseline and the proposed engine, ensure value is zero (0) for ROG, as no ROG
	Column AM, TFCA Funding Amount: Amount of total TFCA funding. The column total must equal Total TFCA Cost from Cost-Effectiveness Inputs at top of worksheet.	
	Column AP, Actual Weighted CE w/o CRFMiles Basis (\$/ton). Cost- effectiveness based on emissions including weighted PM. Must meet Policy Requirements.	Column AP: Calculated automatically.
	Column AQ, Actual Weighted Contract CE w/o CRFFuel Basis (\$/ton). Cost-effectiveness based on emissions including weighted PM. Must meet Policy Requirements.	Column AQ: Calculated automatically.
	Emissions and cost-effectiveness calcula Utility vehicles in idling service Street sweepers Solid waste collection vehicles 	itions can only be based on fuel usage for the following vehicles:
		s. If using fuel-based calculations, usage must be based on two years of historical fuel usage use receipts.)
	Column AS, Baseline CO ₂ Factor	Column AS: No default.
	Based on Mileage: Enter value from	
	CO ₂ Emission Factors Table for your	

	xpenditure Fian Outdance FTE 2021	
	fuel and vehicle type (e.g., Medium	
	Heavy Duty Diesel is 1527 g/mi).	
	Column AT, Proposed Engine CO ₂	Column AT: No default.
	Factor Based on Mileage: Enter value	
	from CO ₂ Emission Factors Table for	
	your fuel and vehicle type (e.g.,	
	Medium Heavy Duty CNG 1098 g/mi).	
	Column AV, Baseline CO ₂ Factor	Column AV: 10079 g/mi.
	Based on Fuel Use: Enter value from	
	CO ₂ Emission Factors Table for your fuel type (e.g., Diesel is 10079 g/mi).	
	Column AW, Proposed Engine CO ₂	Column AW: No default.
	Factor Based on Fuel Use: Enter value	
	from CO ₂ Emission Factors Table for	
	your fuel type (e.g., CNG is 7244	
	g/mi).	
Alternative Fuel Vehicles ar		
Worksheets = LD & LHD Vehicle	e FYE 2021, EV Infrastructure FYE 2021	
Project Types = 4a-e, 12a-c, inc	luding projects that replace heavy-duty v	ehicles with and buses with alternative fuel light-duty vehicles
Alternative Fuel Vehicles	Vehicles	
and Infrastructure	# Years Effectiveness	3 years is recommended - 4 years max.
(Light-Duty and Light Heavy- Duty)	Unit # / ID	List each vehicle separately.
<u>2007</u>	Current Standard and New Vehicle	Enter in Columns E and F the standard that a vehicle is certified to, as shown on the CARB
	Standard	Executive Order.
	Cost-Effectiveness	Column U, automatically calculated. Each vehicle must meet the Policy requirements for
		cost-effectiveness.
	Infrastructure	
	# Years Effectiveness	3 recommended, 4 max
	Charger ID	List each charger separately
	Description	Enter description
	Туре	Select type from dropdown menu, types are defined in Notes and Assumptions tab
	Qty	Enter quantity of charging stations
	TFCA Funding	Enter total amount of TFCA funding requested for all charging stations
	Annual Usage (kWh)	(Rate kW) x (charger's estimated hours of usage per day) x (365 days per year) x (quantity of chargers)

Sample CARB Executive Order for Heavy-Duty On-Road Engines

California Environmental Protection Agency AIR RESOURCES BOARD	CUMMINS INC.	EXECUTIVE ORDER A-021-0571-1 New On-Road Heavy-Duty Engines Page 1 of 2 Pages
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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL	ENGINE FAMILY	ENGINE	FUEL TYPE	STANDARDS & TEST	SERVICE	ECS & SPECIAL FEATURES	DIAGNOSTIC 6
YEAR		SIZES (L)		PROCEDURE	CLASS 2	DDI, TC, CAC, ECM, EGR, OC,	EMD
2012	CCEXH0729XAD	11.9	Diesel	Diesel	UB	SCR-U, PTOX	EIVID
	ENGINE'S IDLE		AC	DITIONAL IDLE EN	ISSIONS CO	NTROL ⁵	
E	Exempt	N/A					
ENGINE (L)	ENGINE MODELS / CODES (rated power, in hp)					
11.9		ISX	(11.9 385 / 3865;FR2	0350 (379), ISX1	2 385 / 386	5;FR20350 (379)	

-not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; liter, hp=horsepower, kw=kilowatt, hr=hour;

CNO/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel; L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDD=heavy duty Otto;

DMH HDD=ightmediumheavy heavy-duxy diese; UB=Urban bus; HDC=heavy duty Otto; ECS=mission control system; TWC/CeT+tree-way/outizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) = warm-up catalyst; DPF=disest particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/divperiodic trap oxidizer; HO2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; HO2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/O2S=heated/divperiodic; Ho2S/D2S=heated/divperiodic; Ho2S=Ho2S=heated/divperiodic; Ho2S=Ho2S=heated/divperiodic; Ho2S=Ho2S=heated/divperiodic;

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EŬRO and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parenthese.) parentheses.).

in	NMHC		NOx		NMHC+NOx		co		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	0.20	0.20	•	•	15.5	15.5	0.01	0.01	•	
FEL	*	•	*	•	*	+		*	*	*	*	•
CERT	0.04	0.01	0.12	0.09	*		1.1	0.00	0.004	0.002	•	
NTE	0.	21	0.	.30		•	19	9.4	0.	02		•

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions sting; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitroge CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971 (engine manufacturer diagnostic) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-057 dated December 7, 2011.

Executed at El Monte, California on this

day of April 2012.

Annette Hebert, Chief Mobile Source Operations Division

San Francisco County Transportation Authority Fiscal Year 2020/21 Transportation Fund for Clean Air County Program Manager Fund Project Information Form



Excel (.xlsx) Form Available at www.sfcta.org/funding/transportation-fund-clean-air

Project Name:				
Implementing Agency:				
Project Location:				
Supervisorial District(s):	T	'FCA Proj. N	lumber:	SFCTA assigns
Project Manager:				
Contact Information Email:		Phone:		
Partner Agencies (incl. staff contact):				
Brief Project Description (50 words max):				
Type of Environmental Clearance:				

DETAILED SCOPE:

Please submit Detailed Scope as a separate Word document.

Guidance: Describe project location, purpose, and need, including target population of the project; describe how outcomes of the project will be evaluated. Attach maps, drawings, photos of current conditions, etc. to support understanding of the project scope.

Project Type Specific Guidance:

-For shuttle/feeder bus projects, indicate the hours of operation, frequency of service, and transit station and employment sites/area served to ensure compliance with Air District policies.

-For heavy-duty vehicle projects, provide the relevant CARB Executive Orders.

-For smart growth projects, provide title and approval date of the originating plan.

PROJECT INFORMATION:

Describe benefits to Communities of Concern or disadvantaged populations.

Demonstrate community support (e.g. cite a community-based transportation plan, outreach conducted to identify locations and/or interested neighborhoods, or attach a letter of recommendation provided by the district Supervisor).

Describe investment from non-public project sponsors or partners (if applicable) including evidence of commitment by private applicant or partner.

NOTE: Cost-effectiveness worksheets are required for all project types, available at sfcta.org/tfcacallforprojects.

San Francisco County Transportation Authority Fiscal Year 2020/21 Transportation Fund for Clean Air County Program Manager Fund **Project Information Form**



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Project Name:

SCHEDULE	Status	Start Date		End	Date
Phase/Milestone	% Complete as of 4/24/20	Month	Calendar Year	Month	Calendar Year
Planning/Conceptual Engineering					
Environmental Studies (PA&ED)					
Design Engineering (PS&E)					
Right-of-Way					
Advertise Construction					
Start Construction or Procurement (e.g. award contract)					
Open for Use	N/A	N/A	N/A		
Final Report Due Date (Project completion):	SFCTA will	assign (default	t is 3 months at evaluation	fter completion	i, including

PROJECT COST ESTIMATE

Funding Source by Phase Non-Public Source of Cost Phase Cost **TFCA** Other Funds Estimate Planning/Conceptual Engineering \$0 Environmental Studies (PA&ED) \$0 Design Engineering (PS&E) \$0 Right-of-Way \$0 Construction \$0 TOTAL PROJECT COST **\$0 \$0 \$0 \$0**

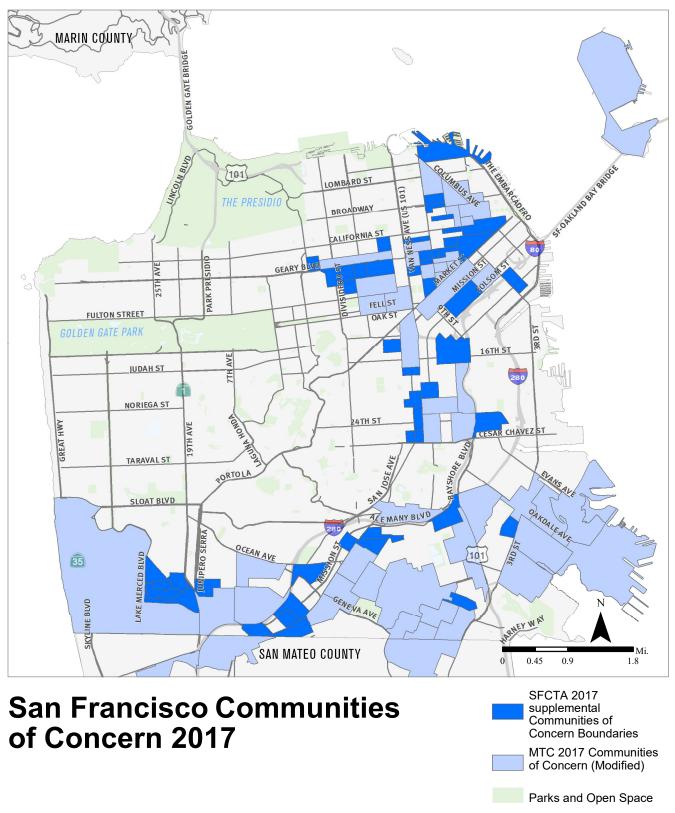
PROPOSED TFCA EXPENDITURES BY FISCAL YEAR (CASH FLOW)

All Phases	20/21	21/22	22/23	Total
TFCA	\$ 0	\$ 0	\$ 0	\$ 0

FUNDING PLAN

Funding Source and Status	Planned	Programmed	Allocated	Total
TFCA				\$0
Specify Source of Non-Public Funds (if applicable)				\$0
Specify Source of Other Funds				\$0
TOTAL	\$ 0	\$0	\$0	\$0

Attachment 4





SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY 1455 Market Street, 22nd Floor, San Francisco, CA 94103 TEL 415.522.4800 FAX 415.522.4829 EMAIL info@sfcta.org WEB www.sfcta.org

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