

BAY AREA AIR QUALITY Management DISTRICT

BOARD OF DIRECTORS SPECIAL MEETING AS THE SOLE MEMBER OF THE BAY AREA CLEAN AIR FOUNDATION September 19, 2018

A special meeting of the Bay Area Air Quality Management District Board of Directors as the sole member of the Bay Area Clean Air Foundation will be held at 9:30 a.m. in the 1ST floor Board Room of the Bay Area Air Quality Management District's headquarters, 375 Beale Street, San Francisco, California 94105.

	<u>1</u>
Questions About an Agenda Item	The name, telephone number and e-mail of the appropriate staff person to contact for additional information is listed for each agenda item.
Meeting Procedures	
	The public meeting of the Air District Board of Directors as the Sole Member of the Bay Area Clean Air Foundation begins at 9:30 a.m. The Board of Directors generally will consider items in the order listed on the agenda. However, <u>any item</u> may be considered in <u>any order</u> .
	After action on any agenda item, the Board may reconsider or amend the item at any time during the meeting.
	This meeting will be webcast. To see the webcast, please visit <u>www.baaqmd.gov/BODagendas</u> at the time of the meeting. Closed captioning may contain errors and omissions, and are not certified for their content or form.

Persons wishing to make public comment must fill out a Public Comment Card indicating their name and the number of the agenda item on which they wish to speak, or that they intend to address the Board on matters not on the Agenda for the meeting.

Public Comment on Non-Agenda Matters, Pursuant to Government Code Section 54954.3 Speakers wishing to address the Board on non-agenda matters will be heard at the end of the agenda, and each will be allowed up to three minutes to address the Board at that time.

Members of the Board may engage only in very brief dialogue regarding non-agenda matters, and may refer issues raised to District staff for handling. In addition, the Chairperson may refer issues raised to appropriate Board Committees to be placed on a future agenda for discussion.

Public Comment on Agenda Items The public may comment on each item on the agenda as the item is taken up. Public Comment Cards for items on the agenda must be submitted in person to the Clerk of the Boards at the location of the meeting and prior to the Board taking up the particular item. Where an item was moved from the Consent Calendar to an Action item, no speaker who has already spoken on that item will be entitled to speak to that item again.

Speakers may speak for up to three minutes on each item on the Agenda. However, the Chairperson or other Board Member presiding at the meeting may limit the public comment for all speakers to fewer than three minutes per speaker, or make other rules to ensure that all speakers have an equal opportunity to be heard. The Chairperson or other Board Member presiding at the meeting may, with the consent of persons representing both sides of an issue, allocate a block of time (not to exceed six minutes) to each side to present their issue.

BOARD OF DIRECTORS SPECIAL MEETING AS THE SOLE MEMBER OF THE BAY AREA CLEAN AIR FOUNDATION

AGENDA

WEDNESDAY SEPTEMBER 19, 2018 9:30 A.M. BOARD ROOM 1ST FLOOR

CALL TO ORDER

Chairperson, Dave Hudson

1. Opening Comments Roll Call Pledge of Allegiance

The Chair shall call the meeting to order and make opening comments. The Clerk of the Boards shall take roll of the Board members. The Chair shall lead the Pledge of Allegiance.

PUBLIC COMMENT ON NON-AGENDA MATTERS

2. Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3

For the first round of public comment on non-agenda matters at the beginning of the agenda, ten persons selected by a drawing by the Clerk of the Boards from among the Public Comment Cards indicating they wish to speak on matters not on the agenda for the meeting will have two minutes each to address the Board on matters not on the agenda. For this first round of public comments on non-agenda matters, all Public Comment Cards must be submitted in person to the Clerk of the Board at the location of the meeting and prior to commencement of the meeting.

Staff/Phone (415) 749-

3. Approval of the Minutes of November 1, 2017

The Board of Directors will consider approving the attached draft minutes of the Bay Area Clean Air Foundation meeting of November 1, 2017.

4. Accept the Bay Area Clean Air Foundation 2017 Annual Report J. Broadbent/5052 jbroadbent@baaqmd.gov

K. Schkolnick/5070 kschkolnick@baaqmd.gov

The Board of Directors as the sole member of the Bay Area Clean Air Foundation will consider accepting the Bay Area Clean Air Foundation 2017 Annual Report.

Clerk of the Boards/5073

5. Adoption of the Bay Area Clean Air Foundation's 2018-2019 Budget

J. Broadbent/5052 jbroadbent@baaqmd.gov

> S. Osaze/4771 sosaze@baaqmd.gov

The Board of Directors will consider adopting the proposed 2018-2019 Budget of the Bay Area Clean Air Foundation.

6. Appoint Directors to the Bay Area Clean Air Foundation's Board of Directors

J. Broadbent/5052 jbroadbent@baaqmd.gov

> J. McKay/4629 jmckay@baaqmd.gov

The Board of Directors as the sole member of the Bay Area Clean Air Foundation will fill the one vacant seat on the Bay Area Clean Air Foundation's Board of Directors. The Board of Directors will consider reappointing Damian Breen to a second 2-year term as director of the Bay Area Clean Air Foundation.

PUBLIC COMMENT ON NON-AGENDA MATTERS

7. Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3

Speakers who did not have the opportunity to address the Board in the first round of comments on non-agenda matters will be allowed two minutes each to address the Board on non-agenda matters.

OTHER BUSINESS

8. Adjournment

The Special Board meeting shall be adjourned by the Chair.

- To submit written comments on an agenda item in advance of the meeting. Please note that all correspondence must be addressed to the "Members of the Board of Directors" and received at least 24 hours prior, excluding weekends and holidays, in order to be presented at that Board meeting. Any correspondence received after that time will be presented to the Board at the following meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- Any writing relating to an open session item on this Agenda that is distributed to all, or a majority of all, members of the body to which this Agenda relates shall be made available at the District's offices at 375 Beale Street, Suite 600, San Francisco, CA 94105, at the time such writing is made available to all, or a majority of all, members of that body.

Accessibility and Non-Discrimination Policy

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

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

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

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

Questions regarding this Policy should be directed to the Air District's Non-Discrimination Coordinator, Rex Sanders, at (415) 749-4951 or by email at <u>rsanders@baaqmd.gov</u>.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT 375 Beale Street, San Francisco, California 94105 FOR QUESTIONS PLEASE CALL (415) 749-4941

EXECUTIVE OFFICE: MONTHLY CALENDAR OF AIR DISTRICT MEETINGS

SEPTEMBER 2018

TYPE OF MEETING	DAY	DATE	TIME	ROOM		
Board of Directors Stationary Source Committee (Meets on the 3 rd Monday of every other Month)	Monday	17	9:30 a.m.	1 st Floor Board Room		
Board of Directors Ad Hoc Building Oversight Committee (At the Call of the Chair)	Wednesday	19	9:00 a.m.	1 st Floor Board Room		
Board of Directors Special Meeting of the Sole Members of the Bay Area Clean Air Foundation (At the Call of the Chair)	Wednesday	19	9:30 a.m.	1 st Floor Board Room		
Board of Directors Regular Meeting (Meets on the 1 st & 3 rd Wednesday of each Month)	Wednesday	19	9:45 a.m.	1 st Floor Board Room		
Board of Directors Climate Protection Committee (Meets on the 3 rd Thursday of every other Month)	Thursday	20	9:30 a.m.	1 st Floor Board Room		
Board of Directors Budget & Finance Committee (Meets on the 4 th Wednesday of each Month) - CANCELLED	Wednesday	26	9:30 a.m.	1 st Floor, Yerba Buena Room #109		
Board of Directors Mobile Source Committee (Meets on the 4 th Thursday of each Month)	Thursday	27	9:30 a.m.	1 st Floor Board Room		
<u>OCTOBER 2018</u>						
TYPE OF MEETING	DAY	DATE	TIME	ROOM		
Board of Directors Regular Meeting (Meets on the 1 st & 3 rd Wednesday of each Month) - CANCELLED	Wednesday	3	9:30 a.m.	1 st Floor Board Room		
Board of Directors Ad Hoc Refinery Oversight Committee (At the Call of the Chair)	Wednesday	3	9:30 a.m.	1 st Floor Board Room		
Board of Directors Regular Meeting	Wednesday	17	9:30 a.m.	1 st Floor Board Room		

(Meets on the 1^{st} & 3^{rd} Wednesday of each Month)				
Board of Directors TIO Steering Committee (At the Call of the Chair)	Monday	22	9:30 a.m.	1 st Floor Board Room
Board of Directors Budget & Finance Committee (Meets on the 4 th Wednesday of each Month)	Wednesday	24	9:30 a.m.	1 st Floor, Yerba Buena Room #109
Board of Directors Mobile Source Committee (Meets on the 4 th Thursday of each Month)	Thursday	25	9:30 a.m.	1 st Floor Board Room
Advisory Council Mtg. (At the Call of the Chair)	Monday	29	10:00 a.m.	1 st Floor Board Room

NOVEMBER 2018

TYPE OF MEETING	DAY	DATE	TIME	ROOM
Board of Directors Regular Meeting (Meets on the 1 st & 3 rd Wednesday of each Month)	Wednesday	7	9:30 a.m.	1 st Floor Board Room
Board of Directors Climate Protection Committee (Meets on the 3 rd Thursday of every other Month)	Thursday	15	9:30 a.m.	1 st Floor Board Room
Board of Directors Stationary Source Committee (Meets on the 3 rd Monday of every other Month)	Monday	19	9:30 a.m.	1 st Floor Board Room
Board of Directors Regular Meeting (Meets on the 1 st & 3 rd Wednesday of each Month) - CANCELLED	Wednesday	21	9:30 a.m.	1 st Floor Board Room
Board of Directors Mobile Source Committee (Meets on the 4 th Thursday of each Month) - CANCELLED	Thursday	22	9:30 a.m.	1 st Floor Board Room
Board of Directors Budget & Finance Committee (Meets on the 4 th Wednesday of each Month)	Wednesday	28	9:30 a.m.	1 st Floor, Yerba Buena Room #109

HL - 9/11/18 - 3:00 p.m.

G/Board/Executive Office/Moncal

BAY AREA CLEAN AIR FOUNDATION Memorandum

To:	Chairperson David Hudson and Members
	of the Board of Directors

From: Jack P. Broadbent President, Bay Area Clean Air Foundation

Date: September 10, 2018

Re: <u>Approval of the Minutes of November 1, 2017</u>

RECOMMENDED ACTION

Approve the attached draft minutes of the Board of Directors (Board) Special Meeting as the Sole Member of the Bay Area Clean Air Foundation (Foundation) of November 1, 2017.

DISCUSSION

Attached for your review and approval are the draft minutes of the Board Special Meeting as the Sole Member of the Foundation of November 1, 2017.

Respectfully submitted,

Jack P. Broadbent President, Bay Area Clean Air Foundation

Prepared by:	<u>Marcy Hiratzka</u>
Reviewed by:	Vanessa Johnson

Attachment 3A: Draft Minutes of the Board of Directors Special Meeting as the Sole Member of the Clean Air Foundation of November 1, 2017

AGENDA: 3A – ATTACHMENT

Draft Minutes - Board of Directors Special Meeting as the Sole Member of the Bay Area Clean Air Foundation of November 1, 2017

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

Board of Directors Special Meeting as the Sole Member of the Bay Area Clean Air Foundation Wednesday, November 1, 2017

DRAFT MINUTES

Note: Audio and video recordings of the meeting are available on the website of the Bay Area Air Quality Management District at http://www.baaqmd.gov/about-the-air-district/board-of-directors/resolutionsagendasminutes

1. Call to Order

Chairperson Liz Kniss called the meeting to order at 9:34 a.m.

Roll Call:

- Present: Chairperson Liz Kniss; Vice-Chairperson David Hudson; Secretary Katie Rice; and Directors Margaret Abe-Koga, Teresa Barrett, Pauline Cutter, Tyrone Jue, Rebecca Kaplan, Doug Kim, Karen Mitchoff, Rod Sinks, Jim Spering, and Brad Wagenknecht.
- Absent: Directors David J. Canepa, Cindy Chavez, John Gioia, Carole Groom, Scott Haggerty, Nate Miley, Hillary Ronen, Mark Ross, Pete Sanchez, Jeff Sheehy, and Shirlee Zane.

Also Present: None.

2. Public Comment Period

No requests received.

3. Approval of the Minutes of June 15, 2016

Public Comments:

No requests received.

Board Comments:

None.

Board Action:

Vice Chair Hudson made a motion, seconded by Director Wagenknecht, to approve the Board Special Meeting as the Sole Member of the Bay Area Clean Air Foundation (BACAF) minutes of June 15, 2016; and the motion carried by the following vote of the Board:

AYES:	Abe-Koga, Barrett, Cutter, Hudson, Jue, Kaplan, Kim, Kniss, Mitchoff, Rice, Sinks,
	Spering, and Wagenknecht.
NOES:	None.
ABSTAIN:	None.
ABSENT:	Canepa, Chavez, Gioia, Groom, Haggerty, Miley, Ronen, Ross, Sanchez, Sheehy, and
	Zane.

4. Accept the Bay Area Clean Air Foundation's 2016 Annual Report

Damian Breen, BACAF Director, introduced Karen Schkolnick, Air District Strategic Incentives Division Director, who gave the staff presentation *Bay Area Clean Air Foundation 2016 Annual Report*, including: overview; background; Reformulated Gas Settlement Fund (RGSF) - Electric Vehicle Charging Demo Program; Faria Preserve Residential Development Mitigation Fund - Vehicle Buyback Program; RGSF - Adoption of Zero-and Near-Zero Emissions Equipment and Vehicles In and Around the Port of Oakland; and recommendation.

Public Comments:

No requests received.

Board Comments:

None.

Board Action:

Secretary Hudson made a motion, seconded by Director Kaplan, to accept the 2016 Annual Report of the BACAF; and the motion carried by the following vote of the Board:

AYES:	Abe-Koga, Barrett, Cutter, Hudson, Jue, Kaplan, Kim, Kniss, Mitchoff, Rice, Sinks,
	Spering, and Wagenknecht.
NOES:	None.
ABSTAIN:	None.
ABSENT:	Canepa, Chavez, Gioia, Groom, Haggerty, Miley, Ronen, Ross, Sanchez, Sheehy, and
	Zane.

5. Adoption of the Bay Area Clean Air Foundation's 2017 Budget

Ms. Schkolnick gave the staff presentation *BACAF 2017 Budget*, including: BACAF financial summary; BACAF 2017 Budget; and recommendation.

Public Comments:

No requests received.

Board Comments:

The Board and staff discussed the fact that the BACAF uses the calendar year as its fiscal year, and that the budget is driven by programmatic aspects, the status reports of which are better explained at the end of the calendar year; the history of why the Foundation was formed in 2008; and the Foundation's function as a third party that can accept money from settlements and agreements separately from the District to fund various District programs.

Board Action:

Vice Chair Hudson made a motion, seconded by Director Barrett, to adopt the 2017 Budget of the BACAF; and the motion carried by the following vote of the Board:

AYES:	Abe-Koga, Barrett, Cutter, Hudson, Jue, Kaplan, Kim, Kniss, Mitchoff, Rice, Sinks,
	Spering, and Wagenknecht.
NOES:	None.
ABSTAIN:	None.
ABSENT:	Canepa, Chavez, Gioia, Groom, Haggerty, Miley, Ronen, Ross, Sanchez, Sheehy, and
	Zane.

6. Appoint Directors to the Bay Area Clean Air Foundation's Board of Directors

Due to the shortage of time, Chair Kniss asked the Board members present to review this presentation on their own before voting. The staff presentation, *Appoint Directors to the BACAF Board of Directors*, included: selection of Directors; and recommendations.

Public Comments:

No requests received.

Board Comments:

None.

Board Action:

Vice Chair Hudson made a motion, seconded by Director Wagenknecht, to appoint Brian Bunger to the Board of the BACAF as a Director and reappoint Kraig Kurucz to serve an additional two-year terms as a Director; and the motion carried by the following vote of the Board:

AYES: Abe-Koga, Barrett, Cutter, Hudson, Jue, Kaplan, Kim, Kniss, Mitchoff, Rice, Sinks, Spering, and Wagenknecht.
NOES: None.
ABSTAIN: None.
ABSENT: Canepa, Chavez, Gioia, Groom, Haggerty, Miley, Ronen, Ross, Sanchez, Sheehy, and Zane.

OTHER BUSINESS

7. Adjournment

The meeting adjourned at 9:54 a.m.

Marcy Hiratzka Clerk of the Boards

BAY AREA CLEAN AIR FOUNDATION Memorandum

To: Chairperson David Hudson and Members of the Board of Directors

From: Jack P. Broadbent President, Bay Area Clean Air Foundation

Date: September 10, 2018

Re: <u>Accept the Bay Area Clean Air Foundation 2017 Annual Report</u>

RECOMMENDED ACTION

Recommend the Board of Directors as a Sole Member of the Bay Area Clean Air Foundation:

1) Accept the 2017 Annual Report of the Bay Area Clean Air Foundation.

BACKGROUND

The Board of Directors, at its July 9, 2008 meeting, approved the establishment of an Air District foundation. In September 2008, the Bay Area Clean Air Foundation ("Foundation") was established. Pursuant to the Foundation's Bylaws, the directors of the Foundation are to send an annual report to the Air District's Governing Board of Directors. The Foundation's directors and officers recommend that the Air District's Governing Board accept the Foundation's 2016 Annual Report, which is attached hereto.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent President, Bay Area Clean Air Foundation

Prepared by:Karen SchkolnickReviewed by:Damian Breen

Attachment 4A: 2017 Annual Report of the Bay Area Clean Air Foundation Attachment 4B: EV Charging Demonstration Program Results

Bay Area Clean Air Foundation

2017 Annual Report

1. Background

On July 9, 2008, the Bay Area Air Quality Management District (Air District) Board of Directors approved the establishment of an Air District foundation. As a result of that action, the Bay Area Clean Air Foundation (Foundation) was established in September 2008. The purposes of the Foundation are as follows:

- To *provide* financial, administrative, programmatic, and other forms of support to the Air District; and
- To *engage* in activities that further serve such purposes.

The Foundation will serve to fund various air quality emissions reduction, and educational and service programs to support the mission of the Air District, which is "to protect and improve public health, air quality, and the global climate."

Directors and Officers

The Directors of the Foundation in calendar year 2017 were as follows:

Damian Breen Kraig Kurucz Jeffrey McKay

The Foundation's staff in calendar year 2017 was as follows:

Jack Broadbent, President Jean Roggenkamp, Vice President Jeffrey McKay, Secretary and Chief Financial Officer Brian Bunger, General Counsel

2. <u>Report on the Foundation's Activities</u>

This report provides the Foundation Directors the proposed budget for 2018, the financial report for the prior fiscal year, and an update on the activities related to funds received for two separate projects including:

- Project 1: Electric Vehicle (EV) Charging Demo Program Reformulated Gasoline (RFG) Settlement Fund Grant; and
- Project 2: Zero Emissions Equipment and Vehicles in and around the Port of Oakland

Project 1: EV Charging Demo Program - Reformulated Gasoline (RFG)

Project Background

The RFG Open Grants Program is the result of the settlement of 14 class action lawsuits against Union Oil Company of California and Unocal Corporation. Before trial, the Plaintiff and Unocal agreed to settle the class actions and agreed to distribute approximately \$7 million through an open competitive grants program directed to nonprofit organizations for projects to achieve vehicle emissions or fuel efficiency benefits for California consumers. The majority of the RFG grants program funding was awarded in 2010, including a grant to the Bay Area Clean Air Foundation (BACAF) for a project to deploy ten converted plug-in electric vehicles in car-share service in partnership with City CarShare.

In order to support Bay Area public agencies' efforts to green their fleets and to deploy charging infrastructure in their communities, the BACAF, in partnership with the Bay Area Air Quality Management District (Air District), submitted an application to the RFG's Open Grants Program on February 5, 2015, requesting \$500,000 in remaining RFG funds for an electric vehicle charging station incentive program.

On May 12, 2015, the U.S. District Court approved a grant under the RFG Open Grants Program whereby the BACAF, who, contracting with the Air District, would develop and implement an Electric Vehicle Charging Demo Program (EV Charging Demo Program). This program is designed to: (a) provide up to \$450,000 in RFG funds that would be matched with the Air District's Transportation Fund for Clean Air (TFCA) funding for the installation of publicly available electric vehicle charging stations; (b) following installation, collect data to measure environmental, economic and operating benefits; (c) publish a White Paper to include a summary, key features, benefits of, and lessons learned from this grant; and (d) share Program results with local governments, air districts, and other entities with an interest in the deployment of electric vehicle infrastructure. Up to \$50,000 of the RFG funds may be used to pay for administration and for the development of the White Paper.

Discussion

The EV Charging Demo Program was designed to provide grant funding to public agencies to help expedite the installation of electric vehicle charging stations along major transportation corridors, at workplaces, and at key destinations. The RFG funds were matched with funds from the Air District's TFCA funded *Charge!* Program and, in some cases, with matching funds from participating agencies. The EV Charging Demo Program prioritized projects that are "shovel ready," and located in Air District-designated Community Air Risk Evaluation (CARE) Areas. At least 25% of RFG funding, or \$112,500, was reserved for projects in CARE Areas. Only public entities were eligible to apply and funds were awarded through a competitive grant application process.

The Air District released the Program guidance and the call for projects ran from August 18 - December 18, 2015. On February 17, 2016, the Air District's Board of Directors approved awards to nine projects with full funding to the seven highest ranked projects and partial funding for the

next two highest ranked projects. The total amount of funds awarded was \$1,142,233, of which \$692,233 is from TFCA and \$450,000 from RFG Settlement Funds. The Air District's Board also approved the creation of a contingency list consisting of four projects that were found eligible, but did not rank high enough for award; this list can be used in the event that any projects on the recommended list do not proceed or are completed under-budget.

The nine projects that were awarded funding proposed to install a total of 77 charging stations at 19 locations throughout the Bay Area and are estimated to, over a three-year period, reduce 1.3 tons of criteria pollutant emissions, more than 2,500 tons of greenhouse gas emissions, and gasoline usage by approximately 300,000 gallons.

By October 2017, all 77 charging stations at 19 locations had been installed and were in active service. As of January 31, 2018, these chargers dispensed over 300,000 kWh of electricity, equivalent to displacing 40,000 gallons of petroleum, and driving more than 1 million electric miles.

Staff published a white paper that includes an overview of the Program, its environmental benefits, findings from the operational data of the charging stations, case studies and lessons learned that is available online at <u>www.baaqmd.gov/evdemo</u>.

The Foundation requested and received the 1st disbursement of grant funds in the amount of \$225,000 in November 2016. Foundation requested the second disbursement of grant funds for \$275,000 in May of 2018 after the publication of the white paper. These funds are currently being disbursed to the project sponsors in accordance with the agreement between each project sponsor and the Air District.

Project 2: Zero Emissions Equipment & Vehicles in and Around the Port of Oakland – RFG

Project Background

On September 25, 2017, the U.S. District Court approved a grant in an amount not to exceed \$1,300,000 under the Open Grants Program, which represents the final tranche of RFG funding, whereby the Foundation, contracting with the Air District, will provide financial incentives to support the adoption of zero and near-zero equipment and vehicles in and near the Port of Oakland; collect data to measure environmental, economic and operating benefits of grant-funded equipment and vehicles; publish a White Paper describing the program, benefits, and lessons learned; and disseminate the White Paper to local governments, air districts and other entities with an interest in implementing similar programs.

Discussion

Using the awarded funds, the Air District developed a West Oakland Zero-Emission Grant Program (Program) that will provide up to 50% of the cost of new on- and off-road zero-emission vehicles, infrastructure, and mobile and stationary equipment that that is operated and installed in and around West Oakland and adjacent Air District designated Community Air Risk Evaluation (CARE) areas of Richmond and Western Alameda County. These communities experience disproportionately higher air pollution impacts, especially from diesel particulate matter emitted from vehicles and equipment that operate in and around the Port of Oakland (Port) and from traffic traveling along the adjacent freeways.

The Air District issued Program Guidance on April 4, 2018 and the solicitation is scheduled to close on July 31, 2018. Application webinars are scheduled for April 19, May 2, June 26, July 12, and July 24, 2018, The Air District will be evaluating and ranking applications received by the deadline and issue awards to the highest ranked eligible and cost-effective projects. Projects that operate primarily in the Port (both Oakland International Airport and the Oakland Seaport), former Oakland Army Base and West Oakland, and those that also propose to scrap (destroy) and replace existing polluting vehicles and equipment with new zero-emission vehicles and equipment may be ranked higher. Ranked projects that are not selected for award may be placed on a contingency list in case additional funding becomes available. Applicants who are selected for award must commit to operate funded vehicles and equipment in the Eligible Areas for a minimum of five years.

AGENDA 4B - ATTACHMENT

EV Charging Demonstration Program

Report on Program Results



Bay Area Clean Air Foundation April 30, 2018

Disclaimers:

The project was made possible by a grant from the Reformulated Gasoline Settlement Fund. Created as a result of an antitrust class action, the purpose of the Fund is to achieve clean air and fuel efficiency benefits for California consumers.

This report was also prepared as a result of work sponsored, paid for, in whole or in part, by the Bay Area Air Quality Management District (Air District) and the Bay Area Clean Air Foundation (BACAF). The opinions, findings, conclusions, and recommendations are those of the author and do not necessarily represent the views of the Air District or BACAF. The Air District, the BACAF, their officers, employees, contractors, and subcontractors make no warranty, expressed or implied, and assume no legal liability for the information in this report.



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Background and Introduction

The Reformulated Gasoline Settlement Fund was created as a result of a judgment issued in Reformulated Gasoline (RFG) Antitrust and Patent Litigation, MDL Case No. 05-1761 CAS (VBKx) (U.S. District Court Central District of California). The judgment established a Reformulated Gasoline Settlement Fund and an Open Grants Program for grants to achieve clean air and fuel efficiency benefits for California consumers. The majority of the RFG Open Grants Program funding was awarded in 2010, including a grant to the Bay Area Clean Air Foundation (BACAF), a nonprofit public benefit corporation, for a project to deploy ten converted plug-in electric carsharing vehicles in partnership with City CarShare.

In order to support Bay Area public agencies' efforts to green their fleets and to deploy charging infrastructure in their communities, the BACAF, in partnership with the Bay Area Air Quality Management District (Air District), submitted an application to the RFG's Open Grants Program on February 5, 2015, requesting \$500,000 in remaining RFG funds for an electric vehicle (EV) charging station incentive program.

On May 12, 2015, the U.S. District Court approved a grant under the RFG Open Grants Program whereby the BACAF, who, contracting with the Air District, will: (a) provide up to \$450,000 in RFG funds that would be matched with the Air District's Transportation Fund for Clean Air (TFCA) funding for the installation of publicly available electric vehicle charging stations; (b) following installation, collect data to measure environmental, economic, and operating benefits; (c) publish a white paper to include a summary, key features, benefits of, and lessons learned from this grant; and (d) share results with local governments, air districts, and other entities with an interest in the deployment of electric vehicle infrastructure. Up to \$50,000 of the RFG funds will be used to pay for administration of the incentive program and for the development of the white paper.

The Electric Vehicle Charging Station Demonstration Program

Overview

With the approved RFG funding, the Air District developed the *Electric Vehicle Charging Station Demonstration Program* (Program). The RFG funds were matched with funds from the Air District's TFCA *Charge!* Program to provide grants to public entities to deploy charging stations at a variety of publicly available locations. Public entities were responsible for installing, operating, and maintaining the charging stations; collecting usage and demand data; and sharing lessons learned and best practices. In addition, 25% of RFG funding, or \$112,500, was reserved for projects in communities that experience disproportionately high impacts of air pollution, as identified by the Air District's <u>Community Air Risk</u> Evaluation (CARE) Program.

Specifically, the Program provided funding to reimburse for up to 90% of total eligible costs for the purchase and installation of new, publicly available EV charging stations along major transportation corridors, at workplaces, and at key destinations. Funds were awarded through a competitive grant application process whereby applicants who requested lower grant amounts per ton of emissions reduced were scored higher. In addition, the Program prioritized projects that were "shovel-ready,"

incorporated renewable energy, helped to expand the region's charging network, and are located in Air District-designated <u>CARE areas</u>.

The Air District released the Program guidance (see *Appendix A*) and opened a call for projects on August 18, 2015. The call for projects was scheduled to close on October 8, 2015; however, the program was not oversubscribed by that date. On October 14, 2015, after consultation with the administrator of the RFG funds, the Air District extended the solicitation deadline to December 18, 2015.

Outreach and Results in CARE Areas

The Program was promoted through both general outreach and targeted outreach in CARE areas during the solicitation period. To ensure that the Bay Area communities that experience higher pollution levels and corresponding health effects would benefit from the emission reductions resulting from this program, Air District staff reserved 25% of the funds for the most cost-effective projects located in CARE areas. Many of these communities are in close proximity to sources of pollution sources, including freeways and major roadways, which also makes them ideal locations to site EV charging stations, and thus good candidates for this program. Air District staff reached out to and contacted representatives from numerous communities in CARE areas to share information about this program and encouraged them to identify facilities in their communities that would be interested in participation. Representatives that were contacted included:

- Alameda-Contra Costa Transit District
- Alameda Municipal Power
- City of Berkeley
- City of Oakland
- City of San Jose
- City of Walnut Creek
- Contra Costa County
- City of Dublin
- Port of Oakland
- San Francisco Bay Area Rapid Transit District

Air District staff also shared information about this program and distributed a flyer (see Figure 1) at community meetings in CARE areas where appropriate.

In addition to the targeted outreach to representatives of CARE area communities, Air District staff also conducted general outreach for the program. Air District staff sent email notices on August 18, September 1, and October 1, 2015 to 2,000+ local Bay Area organizations, including public entities, local businesses, and non-profits, to advertise the program and availability of funding. Staff also shared information and distributed the program flyer shown in Figure 1 at various meetings and events, including:

- EV Council Meeting (8/25/2015)
- Outreach event for the Charging Station Demonstration Program to cities, counties, and EV stakeholders (9/1/2015)
- National Drive Electric week EV Rally event at De Anza College in Cupertino (9/19/2015)
- EV Coordinating Council Meeting at Oakland City Hall (9/30/2015)

• EV Ride & Drive event at the Oyster Point business park in South San Francisco (10/28/2015) These events were selected as having a high number of potential interested applicants in attendance. For applicants, staff hosted four pre-application workshops via online webinars on August 26, September 3, November 5, and December 9, 2015. These webinars were attended by interested applicants and provided information about the program, instructions on how to apply, and an opportunity for interested applicants to ask questions about the Program. Over 150 interested applicants attended the workshops.



Figure 1. EV Charging Station Demonstration Program Flyer

Project Selection

As of the December 18, 2015 deadline, the Air District received 17 applications, which requested a total of \$2.6 million in grant funds, of which approximately \$1.2 million were RFG funds. Staff evaluated these applications and worked with applicants to gather additional documentation and information to determine Program eligibility. Staff also confirmed that all eligible projects conform to the provisions of HSC 44241 and the Board-adopted cost-effectiveness limits for the *Charge!* Program for the TFCA-funded portion. Each eligible project was scored based on its cost-effectiveness, readiness, percentage of chargers open to the public, and whether the site expands the region's coverage of publicly available chargers. Eligible projects were then ranked based on their scores. Three lower-scoring projects were recommended for award to meet the requirement for reserving 25% of RFG funding for projects in CARE Areas.

Based on the ranking results, staff recommended an original award of a total of \$692,233 of TFCA funds and \$450,000 of RFG funds to the nine highest ranked projects, which included four projects in CARE

Areas. Two of the nine projects listed were recommended for a partial award based on scoring and ranking. In order to meet the RFG's 25% funding requirement for CARE Areas (\$112,500), full funding was recommended for the first three highest ranked projects located in CARE Areas and partial funding was recommended for the fourth highest ranked project located in a CARE Area. In addition, the ninth highest project was also recommended for partial funding (see *Appendix B*).

Originally, nine projects were awarded to install 92 charging stations (11 DC Fast charging stations, 78 Level 2, and 3 Level 1 chargers) at 23 locations throughout the Bay Area and were estimated to, over a three-year period, reduce criteria pollutant emissions by 1.3 tons, reduce more than 2,500 tons of greenhouse gas emissions, and reduce gasoline usage by approximately 300,000 gallons.

Final Project Scope

Due to several challenges during the project implementation phase, the scope changed to 77 charging stations at 19 facilities, which included a total of 129 level 2 charging ports and 11 DC fast charging stations. Table 1 summarizes the funded projects and final grant awards and Figure 2 shows a map of the facilities. Four projects changed their scope and those changes are described below:

Project #16RFG08: City of Millbrae

The City of Millbrae had a fire at one of its five facilities and requested to relocate the proposed charging stations from the affected facility to other approved facilities, thereby reducing the total number of new facilities from five to four, while keeping the same number of new stations/ports that would be deployed.

Project #16RFG15: City of Palo Alto

The City of Palo Alto proposed projects that combined charging stations with renewable solar power, but was unable to complete work at three of their facilities by the Program deadline due to delays in deploying the solar component. As a result, only two chargers at one facility out of the original scope of 16 chargers at four facilities were eligible to receive RFG funds. Furthermore, the City decided to install two dual-port Level 2 chargers rather than the proposed single-port Level 2 and dual-port Level 2 chargers. As a result of these changes, the total RFG funds were reduced from \$45,445 to \$11,000, with the difference (\$34,445) being re-allocated to the NASA Ames project (16RFG11) and the total TFCA funds were reduced from \$76,500 to \$9,000.

Project #16RFG18: San Francisco Bay Area Rapid Transit District (BART)

Due to parking redesign at the new Warm Springs BART Station in Fremont, BART requested a change from 18 dual-port and 5 single-port charging stations to 20 dual-port and 2 single-port charging stations. Although the total numbers of stations decreased from 23 to 22, the actual number of charging ports increased from 41 to 42.

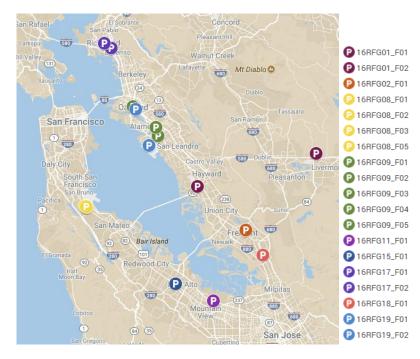
Project #16RFG19: County of Alameda

The County of Alameda proposed projects that combined charging stations with renewable solar power provided by SunEdison. However, during the project implementation phase, SunEdison declared bankruptcy, which affected two of the three project facilities. The County of Alameda then requested to move the proposed charging stations from the two affected facilities (7751 Edgewater in Oakland and 951 Turner Ct. in Hayward) to a new facility (1151 Harbor Bay in Alameda). This reduced the total number of facilities to two, but kept the number of charging stations the same. In addition, the removal of solar from the project also reduced the amount of eligible Air District TFCA funding from \$80,348 to \$64,103.

Project Number	Project Sponsor	Title	RFG \$ Awarded	TFCA \$ Awarded	Total \$ awarded	No. of Facilities	No. of Charging Stations
16RFG01	Chabot Las Positas Community College District	Install 12 Dual-Port level 2 charging stations in Livermore and Hayward	\$10,852	\$54,260	\$65,112	2	12
16RFG02	City of Fremont	Install 9 Dual-port level 2 charging stations in Fremont	\$27,486	\$54,000	\$81,486	1	9
16RFG08	City of Millbrae	Install 8 Dual-Port Level 2 Charging Stations in Millbrae	\$30,000	\$48,000	\$78,000	4	8
16RFG09	City of Oakland	Install 1 Dual-Connector DC Fast and 5 Dual-Port level 2 Charging Stations in Oakland	\$12,875	\$26,414	\$39,289	5	6
16RFG11	The NASA Ames Exchange	Install 8 Dual-connector DC fast charging stations in Moffett Field	\$142,014	\$200,000	\$342,014	1	8
16RFG15	City of Palo Alto	Install 2 Dual-port Level 2 charging station in Palo Alto	\$11,000	\$9,000	\$20,000	1	2
16RFG17	City of Richmond	Install 1 DC fast and 1 Single- port Level 2 charging stations in Richmond	\$19,511	\$28,000	\$47,511	2	2
16RFG18	San Francisco Bay Area Rapid Transit District (BART)	Install 20 Dual-Port and 2 Single- Port Level 2 Charging Stations in Fremont	\$127,000	\$123,000	\$250,000	1	22
16RFG19	County of Alameda	Install 1 DC Fast and 7 Dual-Port Level 2 Charging Stations in Oakland and Alameda	\$69,262	\$64,103	\$133,365	2	8
		Total, 9 Projects:	\$450,000	\$606,777	\$1,056,777	19	77

Table 1. Summary of Funded Projects (Final Project Scope)

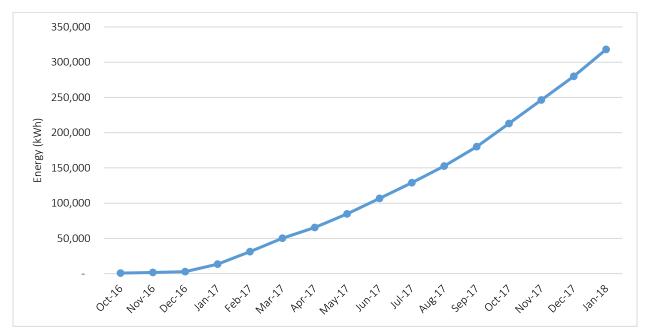
Figure 2. Map of the Facilities



Summary of Clean Air and Fuel Efficiency Benefits

All 77 charging stations at 19 facilities, which include 129 Level 2 charging ports and 11 DC fast charging stations/ports, were placed into service by September 27, 2017 and are currently in active service (see *Appendix C*). During the operational period, the Air District collected data from project sponsors by February 15, 2017 (for period between August 1, 2016 and January 31, 2017), by August 15, 2017 (for period between February 1 and July 31, 2017), and by February 15, 2018 (for period between August 1, 2017 and January 31, 2018). Depending on when project sponsors placed their projects into service, up to 16 months of data is available.

The cumulative amount of energy dispensed by all charging stations is shown in Figure 3, and Figure 4 shows the total energy dispensed by all charging stations. As of January 31, 2018, a total of 318,154 kWh has been dispensed from the charging stations. This is equivalent to driving approximately 1.1 million electric miles (instead of gasoline) and reducing approximately 0.25 tons of criteria pollutants (ROG, NOx, and PM) and 39,962 gallons of fuel per year. Figure 5 shows the monthly average energy dispensed per port at each facility, which was calculated using energy data beginning with the first full month of data through January 31, 2018. For more information about monthly charging data at each facility, see *Appendix D*.





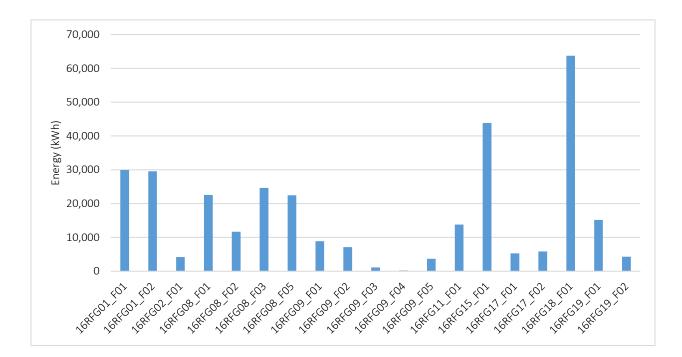
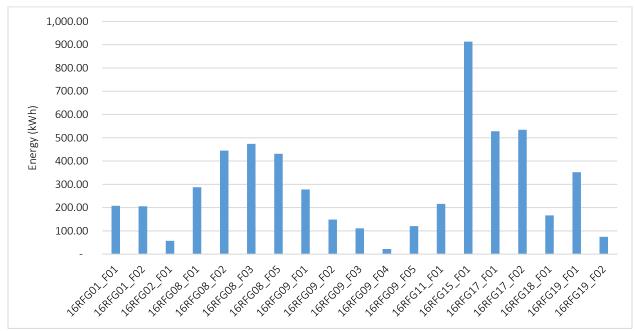


Figure 4. Total Energy Dispensed by All Charging Stations at Each Facility Between Start of Operation and January 31, 2018

Figure 5. Monthly Average Energy Dispensed per Port at Each Facility¹



¹Only full months of data were used to calculate monthly averages.

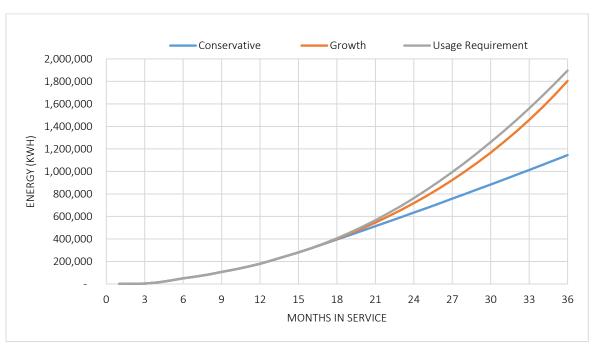
Each facility delivers a monthly average of 293 kWh per port. The facilities are anticipated to deliver a collective average 362,751 kWh per year, which is equivalent to driving approximately 1.2 million electric miles. Given the number of electric vehicles in the region is increasing, the demand for these stations is

also projected to increase over time, and the amount of energy dispensed by each facility has been increasing by an average of 6% per month for the past four months.

Three scenarios were developed to assess vehicle emissions and fuel efficiency benefits:

- 1. Conservative Model: The conservative model assumes that the charging stations will continue to dispense energy at the same monthly average rate over the next three years. This would mean that the facilities would deliver a collective 1.1 million kWh (approximately 3.7 million electric miles, resulting in 155,000 gallons of petroleum reduced).
- 2. Growth Model: The growth model assumes that the charging rates will continue to increase by 6% per month. This would mean that the facilities would deliver a collective 1.8 million kWh over the next three years (approximately 6.1 million electric miles, resulting in 255,000 gallons of petroleum reduced).
- 3. Usage Requirement: During the application evaluation process, the Air District projected the amount of usage for each charger, which was used to estimate the criteria and CO2 emissions and the gallons of petroleum reduced by the chargers. The usage requirement model shows the amount of energy dispensed that is required to meet the usage projected in the application evaluation, which is 1.9 million kWh over the three-year implementation period (approximately 6.4 million electric miles, resulting in 265,000 gallons of petroleum reduced).

The cumulative energy dispensed over three years for each scenario is shown in Figure 6.





Case Studies

The Program funded a number of projects that targeted specific demographics of EV drivers, with diverse parking locations in communities with different rates of EV adoption. Three of these projects are featured here as case studies for further analysis.

Case Study 1: The NASA Ames Exchange (16RFG11)

The NASA Ames Research Center is one of ten NASA field centers that conducts world-class research and development in aeronautics, exploration technology, and science. Located in Moffett Field, the NASA Ames Exchange is a large workplace situated at a major transit corridor ideal for public charging. Eight DC Fast charging stations were installed at the NASA Ames visitor badging parking lot (see Figure 7), which is less than one mile from the U.S. 101 and CA-85 Moffett Boulevard exits as well as downtown Mountain View.

The chargers are publicly available at all hours of the day for a fee of \$0.25 per minute. This rate is on the higher end to use DC Fast chargers in the area, which is typically up to \$0.20 per minute. Between the start of operation on June 1, 2017 and January 31, 2018, this facility has dispensed 13,823 kWh, which is equivalent to driving approximately 46,445 miles, and has satisfied 2% of its total usage requirement of 600,000 kWh. Setbacks for this project included significant delays with the installation of the transformer and account set up, which was performed by Pacific Gas & Electric (PG&E). Average duration per charge session was 19 minutes, while average charging time per charge session was 18 minutes. On average, approximately 13.7 charging sessions occurred per day at the facility. As shown in Figure 8, charging start times were distributed throughout the day, with the highest demand of charging starting mid-day. Figure 9 shows a histogram of the charging time in minutes per session, and Figure 10 shows a histogram of energy dispensed per charging session.







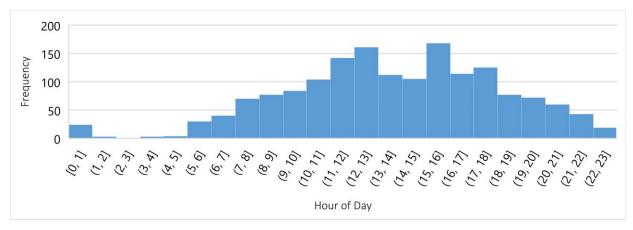


Figure 9. Histogram of Active Charging Time per Charging Session at NASA Ames Visitor Center

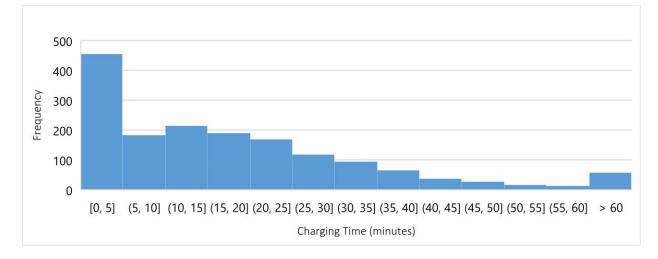
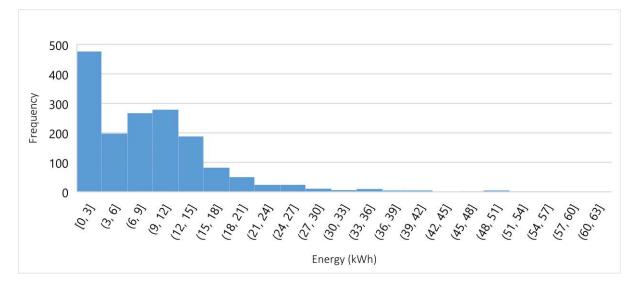


Figure 10. Histogram of Energy Dispensed per Charging Session at NASA Ames Visitor Center



Case Study 2: San Francisco Bay Area Rapid Transit District (16RFG18)

The San Francisco Bay Area Rapid Transit District (BART) is the heavy rail rapid transit system in the Bay Area with an annual ridership of over 128 million trips. Warm Springs station in Fremont opened in April 2017 as the first line on the new San Jose extension. Twenty dual-port and two single-port Level 2 charging stations were installed at the Warm Springs station (see Figure 11).

The chargers are available during BART service hours, which are weekdays from 4 AM to midnight, Saturdays from 6 AM to midnight, and Sundays from 8 AM to midnight. Pricing for the use of charging stations is embedded in the parking rates. BART Daily EV Charging Single Day Reserved permits, which are \$6.00 per day, are required to park at the charging stations on weekdays from 4 AM to 3 PM. For the BART Americans with Disabilities Act (ADA) lot EV Charging spaces, Daily Parking fees are \$3.00 per day on weekdays from 4 AM to 3 PM. Payment is not required outside of the weekday hours for either lot.

Challenges included installation costs and logistics, identifying a pricing structure that fit BART standards and EV Charging demands, and complying with State ADA requirements. Between May 1, 2017 and January 31, 2018, this facility has dispensed 62,908 kWh, which is equivalent to driving approximately 46,101 miles, and has satisfied 17% of its total usage requirement of 378,000 kWh. As shown in Figure 12, the charger usage peaks around 7-8 AM, which is aligned with the morning work commute times, and then again at 5-6 PM. Figure 13 shows a histogram of the charging times, which shows that most users are charging between 0 and 30 minutes instead of the entire duration for which they are parked. Figure 14 shows a histogram of the amount of energy dispensed per charging session, which peaked between 0 and 3 kWh. On average, approximately 18.2 charging sessions occurred per day at the facility.

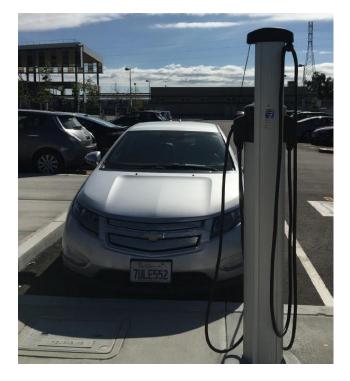




Figure 12. Histogram of Charging Start Times at Warm Springs BART Station

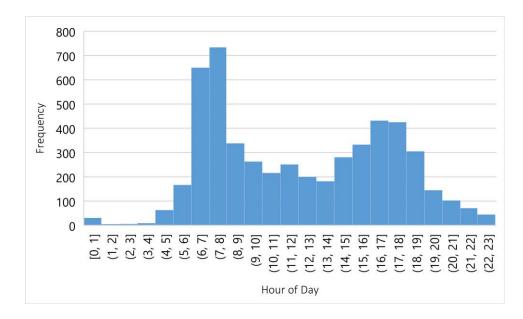
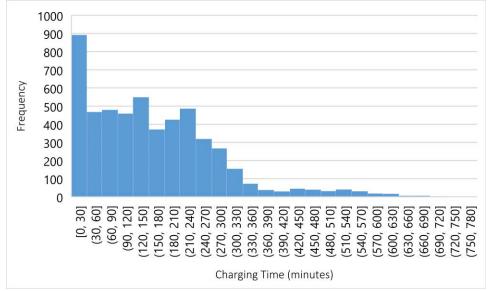


Figure 13. Histogram of Active Charging Time per Charging Session at Warm Springs BART Station



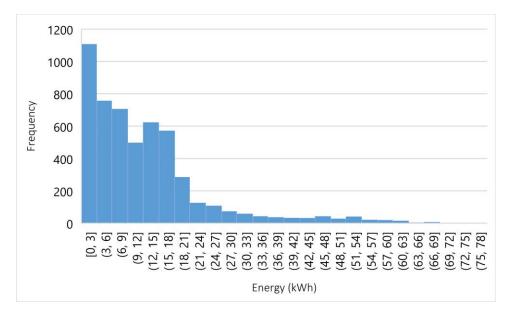


Figure 14. Histogram of Energy Dispensed per Charging Session at Warm Springs BART Station

To assess usage for the typical BART commuter, further analysis was conducted for morning BART commuters who parked at the EV charging stations between 7 and 9 AM. As shown in Figure 15, the duration of charging sessions (plug-in time) was around 8-12 hours, which is expected for commuters who take BART to work. However, active charging time occurred mainly for the first four hours, as shown in Figure 16. Once active charging ends, the vehicle sits idle and plugged in for another 4-8 hours before vehicle owners return. This suggests that a lower-rate charger may be enough to satisfy the demand.

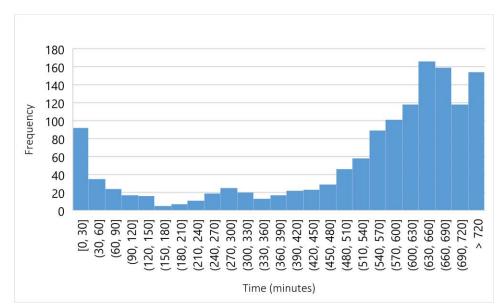


Figure 15. Histogram of Duration of Charging Sessions Beginning Between 7 and 9 AM at Warm Springs BART Station

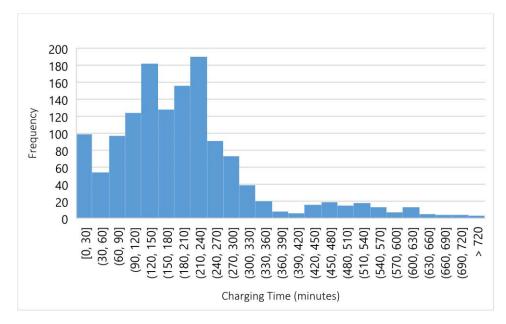


Figure 16. Histogram of Active Charging Time of Sessions Beginning Between 7 and 9 AM at Warm Springs BART Station

Case Study 3: City of Richmond (16RFG17)

The City of Richmond installed two charging stations in Richmond. One single-port Level 2 charger was installed at the Family Justice Center, and one DC Fast charger was installed at Kennedy High School Swim Center (see Figure 17). At the Swim Center, the DC fast charging station is available on weekdays between 8 AM and 6 PM at a rate of \$7 per hour with a minimum \$1 charge. At the Family Justice Center, the Level 2 charging station is available at all hours for a rate of \$1 per hour and \$5 after four hours of charging.

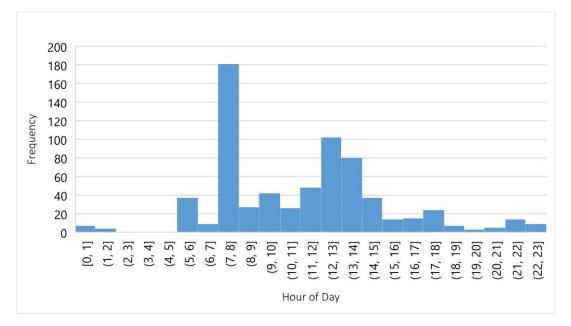
On average, approximately 2.6 Level 2 charging sessions and 3.3 DC Fast charging sessions occurred per day. The average duration per charge session was 2 hours and 37 minutes for the level 2 charger, while the average charging time per charge session was 1 hour 54 minutes. The average duration per charge session was 17 minutes for the DC fast charging station, while the average charging time per charge session was 16 minutes. As shown in Figure 18, the most popular charging time for the level 2 charger was started between the hours of 7-8 AM, which is when the majority of people arrive at work. Figure 19 shows a peak for the DC Fast Charger between 3 and 4 PM, which is when school typically ends. Figure 20 and Figure 21 show histograms of the active charging time per session for the Level 2 and DC Fast Charger, respectively. Figure 23 show histograms of the energy dispensed per session for the Level 2 and DC Fast Charger, respectively.

Figure 17. One Single-Port Charger Installed at the Family Justice Center (left) and One DC Fast Charger Installed at Kennedy High School Swim Center (right)





Figure 18. Histogram of Charging Start Time of the Level 2 Charger at the Family Justice Center



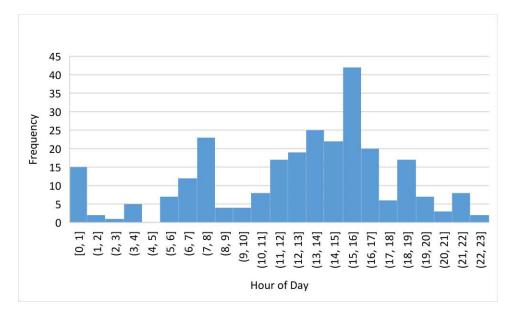


Figure 19. Histogram of Charging Start Time of the DC Fast Charger at the Kennedy High School Swim Center

Figure 20. Histogram of Active Charging Time per Session of the Level 2 Chargers at the Family Justice Center

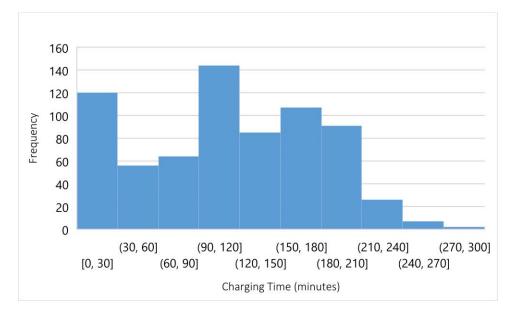


Figure 21. Histogram of Active Charging Time per Session of the DC Fast Charger at the Kennedy High School Swim Center

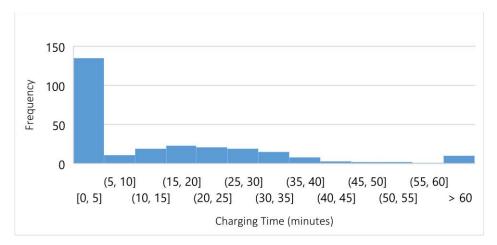


Figure 22. Histogram of Energy Dispensed per Charging Session of the Level 2 Chargers at the Family Justice Center

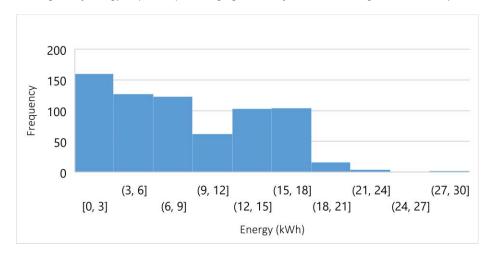
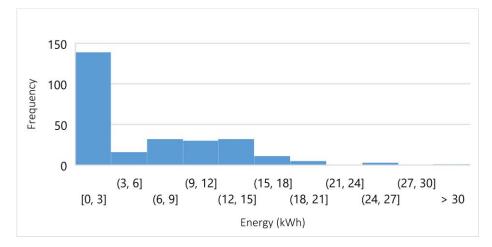


Figure 23. Histogram of Energy Dispensed per Charging Session of the DC Fast Charger at the Kennedy High School Swim Center



Lessons Learned Project Delays

After project selection, each project sponsor entered into a funding agreement with the Air District. All projects were to be completed and placed into service by the deadline of March 3, 2017; however, the RFG administrator granted extensions for five projects, which were completed after this deadline. Table 2 summarizes the timeline for each project. On average, it took about 236 days from contract execution to the start of service. Some delays occurred due to outdated infrastructure, which required new electrical parts to be special ordered and installed before power could be provided to the charging stations. Several project sponsors also noted delays due to coordination with PG&E, which was required for the installation of transformers, activation of the new electric meters, and account set up.

Project Number	Project Sponsor	Contract Execution	Date Placed Into Service	Number of Days Between Execution and Service
16RFG01	Chabot Las Positas Community College District	7/12/16	2/17/17	220
16RFG02*	City of Fremont	8/22/16	9/27/17	401
16RFG08	City of Millbrae	6/30/16	12/23/16	176
16RFG09	City of Oakland	6/6/16	10/5/16	121
16RFG11*	The NASA Ames Exchange	10/21/16	6/1/17	223
16RFG15	City of Palo Alto	8/9/16	1/6/17	150
16RFG17*	City of Richmond	7/25/16	3/23/17	241
16RFG18*	San Francisco Bay Area Rapid Transit District (BART)	8/22/16	4/20/17	241
16RFG19*	County of Alameda	7/12/16	6/29/17	352

Table 2. Project Timeline

*Provided project extensions.

The largest delays occurred for City of Fremont and County of Alameda.

For the City of Fremont, installation work was completed on April 28, 2017, but the City had to wait for PG&E to activate the new electric meters before the charging units could be put into operation. This process took much longer than anticipated, with PG&E not completing meter activation until September 11, 2017, at which point the City had to complete the re-wiring of the stations to the new electric meters. Stations were finally completed by September 19, 2017 and placed into service on September 27, 2017.

The County of Alameda encountered two major issues. The first issue was a result of SunEdison declaring bankruptcy, which resulted in the cancellation of two major solar projects connected to this project. Since construction would no longer occur at one of the sites, four of the EV charging stations had to be relocated. Furthermore, the removal of solar from this project decreased the amount of eligible funding and the charger installation at the former sites could not be completed on budget. The second issue was

that additional work was needed to make the EV charging stations ADA accessible, as a result of the ADA rules for EV charging stations becoming effective on January 1, 2017. This additional work led to a slight delay.

Availability of Chargers

All chargers are available for use any day or time, except for three facilities:

- At City of Oakland's 250 Frank Ogawa Plaza (16RFG09_F05), chargers are available Monday through Friday between 6:00 AM and 11:00 PM;
- At Kennedy High School in Richmond (16RFG17_F01), the charger is available Monday through Friday between 8:00 AM and 6:00 PM; and
- At Warm Springs/South Fremont BART Station (16RFG18_F01), chargers are available Monday through Friday between 4 AM and midnight, Saturdays between 6 AM and midnight, and Sundays between 8 AM and midnight.

Costs

Table 3 summarizes the equipment, installation, and PG&E costs associated with each project. However, the cost breakdown may be characterized differently by each project sponsor, and therefore what is considered as direct costs may not be consistent across all projects. As shown, the cost to install a level 2 port ranges from \$4,000 to \$16,000 and the cost to install a DC fast charging port ranges from \$45,000 to \$59,000. This wide range of costs is dependent on the work involved (e.g., trenching) and costs reported to the Air District. Based on the number of ports installed for each project, the NASA facility was the most expensive per port since only DC Fast chargers were installed.

Project #	Equipment	Installation	PG&E	Total Cost	# of	Cost/Port					
					Ports						
Level 2 Chargers											
16RFG01	\$75,000	\$22,484	-	\$97,484	24	\$4,062					
16RFG02	\$60,533	\$177,343	\$43,818	\$281,694	18	\$15,650					
16RFG08	\$59,954	\$105,919	\$5,000	\$170,873	16	\$10,680					
16RFG09	\$36,295*	\$65,600	-	\$101,895	10	\$10,190					
16RFG15	\$11,417	\$18,304	-	\$29,721	4	\$7,430					
16RFG17	\$5,515	\$2,750	-	\$8,265	1	\$8,265					
16RFG18	N/A	N/A	N/A	\$537,039	42	\$12,787					
16RFG19	\$45,628	\$52,988**	-	\$98,616	14	\$7,044					
DC Fast Ch	argers										
16RFG09	\$30,000*	\$14,500	-	\$44,500	1	\$44,500					
16RFG11	\$247,631	\$188,345	\$33,318	\$469,294	8	\$58 <i>,</i> 662					
16RFG17	\$39,405	\$11,800		\$51,205	1	\$51,205					
16RFG19	\$37,797	\$11,769**	-	\$49,566	1	\$49,566					

Table 3. Summary of Project Costs

N/A = Not Available

* 16RFG09 had no equipment cost associated with the DC Fast charger and one of the five dual-port Level 2 chargers because these were donated as a joint project. However, the DC fast charger is estimated to be valued at \$30,000 and the Level 2 charger is estimated to be valued at \$7,113.

**For 16RFG19, \$47,078 of the \$64,757 installation cost was a lump sum to install one DC Fast Charger and three Level 2 chargers. This lump sum was distributed evenly across all four of the chargers.

Pricing Structure

Seven of the 19 facilities (16RFG01_F01, 16RFG01_F02, 16RFG09_F01, 16RFG09_F02, 16RFG09_F03, 16RFG09_F04, 16RFG09_F05) provided free charging for all users. Nine of the remaining 12 facilities had the following time-based pricing schemes:

- \$1.50 per hour (16RFG02_F01);
- \$1.00 per hour for a maximum of two hours (16RFG08_F01, 16RFG08_F02, 16RFG08_F03, 16RFG08_F05);
- \$0.25 per minute (16RFG11_F01);
- \$7 per hour with a \$1 minimum charge (16RFG17_F01);
- \$1 per hour and \$5 after four hours of charging; (16RFG17_F02)
- \$6.00 per day (16RFG18_F01 Daily lot); and
- \$3.00 per day (16RFG18_F01 ADA lot).

Three facilities required users to pay based on energy usage under the following pricing schemes:

- \$0.20 per kWh and \$1 activation fee (16RFG19_F01 Level 2 charging stations);
- \$0.20 per kWh and \$5 activation fee (16RFG19_F01 DC fast charging stations);
- \$0.20 per kWh and \$0 activation fee between 7 PM and midnight and all day on weekends (16RFG19_F02); and
- \$0.23 per kWh and \$2.00 per hour after charging stops with 20-minute grace period (16RFG15_F01).

City of Fremont found that the pricing structure of \$1.50 per hour disincentivizes vehicles that charge at a slower rate from using public chargers and plans to change the pricing structure to cost per kWh.

BART found it challenging to identify a pricing structure that fit both BART parking standards and EV charging demand. At the Warm Springs BART station, Daily EV Charging Single Day Reserved permits are required and cost \$6.00 per day. For EV charging at the BART ADA parking lot, Daily Parking fees are required and cost \$3.00 per day. For both lots, payment is required on weekdays from 4 AM - 3 PM and is free outside of these hours.

Usage was influenced significantly by pricing structure. Both the City of Millbrae and the City of Palo Alto initially allowed free charging, but found that implementing a pricing scheme decreased the amount of energy dispensed at the facilities. The City of Millbrae implemented an ordinance requiring a fee of \$1.00 per hour for a maximum of two hours. This led to a decline in energy dispensed at the project facilities effective March 16, 2017, as shown in Figure 24. After the first six months of operation, the City of Palo Alto required users to pay \$0.23 per kWh and \$2.00 per hour after charging stops with a 20-minute grace period. This led to a decline in energy dispensed at the project facility as shown in Figure 25.

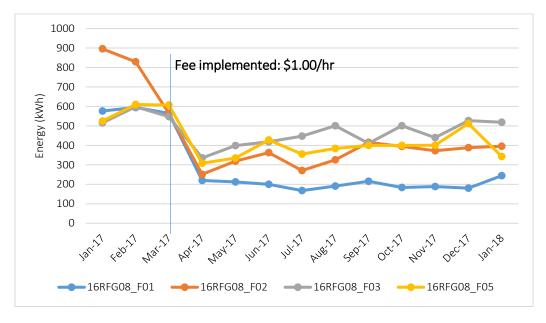
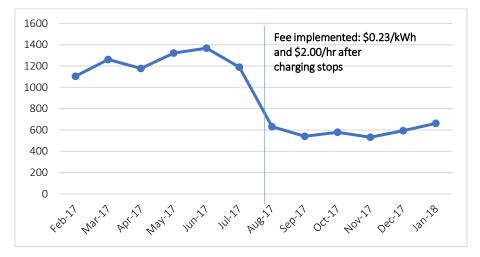


Figure 24. Energy dispensed per charger for free and fee-based charging at the City of Millbrae facilities

Figure 25. Energy dispensed per charger for free and fee-based charging at the City of Palo Alto facility (16RFG15_F01)



Utilization of Charging Assets

- To maximize use of charging stations, Chabot-Las Positas Community College District found it important to install signage and add pavement striping to reserve parking spaces for charging. They also encouraged courteous use of chargers by encouraging drivers to move vehicles when fully charged.
- City of Oakland noted shared access to site allows more use of charging stations: visitors and employees charge during the day and fleet charging available at night.
- One can maximize use of charging stations by determining the right mix of charging types based on parking dwell times. For example, long-term parking (e.g., BART) should explore a mix of Level 1 and 2 chargers for maximum efficiency.

Appendix A: BAAQMD Grant Opportunity Announcement, Program Guidance, and Evaluation Criteria for Electric Vehicle Charging Station Demonstration Projects



Bay Area Air Quality Management District

Grant Opportunity Announcement, Program Guidance, and Evaluation Criteria for

Electric Vehicle Charging Station Demonstration Projects

Only open to public agencies

Bay Area Air Quality Management District 939 Ellis Street, San Francisco, CA 94109

August 2015 Revised October 2015

<u>The deadline for receiving applications Application deadline is 4 PM, December 18,</u> <u>2015October 8, 2015</u>

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The Air District offers grants and incentives for the following projects types:

- Zero-Emissions Vehicles and Fueling Infrastructure
- On and Off-Road Heavy-Duty Diesel Vehicles
- Locomotives
- Agricultural Equipment

- Marine Vessels
- Lower-Emission School Buses
- Trip Reduction
- Community Grants

Contact us to learn more about Air District grants and incentives: Website: <u>http://www.baaqmd.gov/grant-funding</u>

Email: grants@baaqmd.gov

Grants Information Request Line: (415) 749-4994



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

The California Legislature created the Bay Area Air Quality Management District (Air District) in 1955 as the first regional air pollution control agency in the country, recognizing that air emissions overflow political boundaries. The nine counties of the San Francisco Bay Area form a regional air basin, sharing common geographical features and weather patterns, and therefore similar air pollution burdens, which cannot be addressed by counties acting on their own. The Air District is the public agency entrusted with regulating stationary sources of air pollution in the nine counties that surround San Francisco Bay: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, southwestern Solano, and southern Sonoma counties.

Vehicle emissions contribute to unhealthful levels of ozone (summertime "smog") and particulate matter. In the Bay Area, tailpipe emissions from on-road motor vehicles account for more than 40% of the criteria air pollutants and about 36% of the green-house gasses (GHG) generated. ^{1, 2} Significant emissions reductions from the on-road transportation sector are key to helping the Bay Area to attain State and Federal ambient air quality standards.

To protect public health, the State Legislature enacted the California Clean Air Act in 1988. As part of the requirements, the Air District prepared the 2010 Clean Air Plan (CAP) which includes transportation control measures (TCMs), 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," and mobile source measures (MSMs), which encourage the introduction of newer, cleaner motor vehicle technologies and the retirement of older, more polluting vehicles.

BAY AREA CLEAN AIR FOUNDATION

The Bay Area Clean Air Foundation (Foundation) was established by the Air District's Board of Directors as a nonprofit public benefit corporation in September 2008. The purpose of the Foundation is to provide financial, administrative, and programmatic support to the Air District. As part of its charter, the Foundation serves to fund air quality emissions reduction efforts and educational and service programs to support the mission of the Air District.

PROGRAM FUNDING SOURCES

Funding for the Electric Vehicle Charging Station Demonstration Program (Program) is provided by the Transportation Fund for Clean Air (TFCA) and Reformulated Gasoline (RFG) Settlement Fund.

Transportation Fund for Clean Air

In 1991, the California State Legislature authorized the Air District to impose a \$4 surcharge on motor vehicles registered within the nine-county San Francisco Bay Area to fund projects that reduce on-road motor vehicle emissions. The Air District has allocated these funds to its TFCA program to fund eligible trip reduction and alternative fuel vehicle-based projects that reduce tailpipe criteria emissions from on-road mobile sources. The statutory authority for the TFCA and requirements of the program are set forth in California Health and Safety Code Sections 44241 and 44242.

Reformulated Gasoline Settlement Fund

The Reformulated Gasoline Settlement Fund was created as a result of a judgment issued in Reformulated Gasoline (RFG) Antitrust and Patent Litigation, MDL Case No. 05-1761 CAS (VBKx) (U.S. District Court Central District of California) to provide grants to achieve clean air and fuel efficiency benefits for California consumers. On May 12, 2015, the U.S. District Court approved a grant under the RFG Open Grants Program whereby the Foundation, contracting with the Air District, will: (a) provide up to \$450,000 in financial assistance to public agencies for the installation of publicly available charging stations for electric vehicles in their communities; (b) following installation, collect data to measure environmental, economic and operating

¹ BAAQMD, <u>Bay Area Emissions Inventory Summary Report: Criteria Air Pollutants Base Year 2011</u>, May 2014.

² BAAQMD, Bay Area Emissions Inventory Summary Report: Greenhouse Gases Base Year 2011, January 2015.

benefits; (c) publish a White Paper to include a summary, key features, benefits of, and lessons learned from this grant; and (d) share Program results with local governments, air districts, and other entities with an interest in the deployment of electric vehicle infrastructure.

PURPOSE OF SOLICITATION

The Air District is seeking public entities interested in demonstrating ready-to-go ("shovel-ready") projects that will deploy electric vehicle (EV) charging stations at a variety of publicly-available locations to determine their environmental, economic, and operating benefits. Public entities will install, operate, and maintain the charging stations; collect usage and demand data; and—in partnership with the Air District—participate in roundtable discussions with other entities to share lessons learned and best practices. Information gathered from this Program will be published in a publicly-available white paper.

Up to \$900,000 in grant funding is available for the Program, which will provide up to 90% of total eligible costs for the installation of new, publicly-available EV charging stations along major transportation corridors, at workplaces, and at key destinations. Funds for this project will be awarded through a competitive grant application process whereby applicants who request lower grant amounts per ton of emissions reduced will be scored higher. In addition, the Program prioritizes projects that are "shovel-ready," incorporate renewable energy, help to expand the region's charging network, and are located in Air District-designated <u>Community Air Risk Evaluation (CARE) Program areas</u>. Grant recipients must comply with all Program Requirements and Air District staff may request additional documentation to verify the information provided in applications.

The Air District reserves the right to recommend a reduced amount of funding from the amount that was requested in the event that the Program is oversubscribed, or to ensure that the project meets the cost-effectiveness limits. The Air District also reserves the right to modify this solicitation at its discretion.

DATE	ACTIVITY
August 18, 2015	Program solicitation released
August 26, 2015 and September 3, 2015	Pre-application webinars
<u>October 13, 2015</u>	Program guidance revised; application deadline extended
<u>November 5, 2015</u>	Pre-application webinar
October 8, 2015 December 18, 2015, 4 PM	Application deadline (solicitation closes)
By December 14, 2015 January 25, 2016 (tentative)	Notice of Determination: Air District notifies applicants about the results of the evaluation of their application
 Within 30 days of the notice of determination for applicants requesting \$100,000 or less, or Within 90 days of the notice of determination for applicants requesting more than \$100,000 	Proposed funding agreements forwarded to <u>applicants with</u> <u>projects that are selected for</u> awardees for signature (awardees must return signed agreement within 60 days)
Spring 2016 (no later than May 3, 2016)	All contracts executed
Within 90 days after funding agreement is executed	Projects must commence to remain eligible (e.g., permits obtained, CEQA completed, equipment purchased) and 1 st Semi-Annual Report submitted to Air District during the implementation phase
Within 6 months after funding agreement is executed	All project equipment/stations must be installed and available for use by the public; awarded funds must be expended and Interim Status Report and Final Invoice submitted to the Air District; Air District reimburses 85% of funds awarded.
Every February 15 and August 15 after charging stations have been placed into service for at least 3 years and until usage requirement is satisfied	Operational Report (usage, lessons learned) submitted to Air District
On-going	Participate in roundtable discussions and case studies

PROGRAM SCHEDULE/TIMELINE

After submission of the last Operational Report	Final Payment: Air District releases 15% retention amount
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PRE-APPLICATION WORKSHOPS

Air District staff will be conducting <u>a</u> public pre-application workshops via webinar to share information and answer questions about the Program. The webinars will cover Program Requirements, application process, application evaluation criteria, and grant awardee administrative requirements. Webinar attendance is optional but encouraged. *Registration is required for attending the webinars, and early registration is encouraged as* <u>eachthe</u> webinar is limited to 100 attendees.

Webinar Date<mark>s</mark>:

- + Wednesday, August 26, 2015 (10:00AM 11:00AM) (Register for webinar)
- Thursday, September 3, 2015 (2:00PM 3:00PM) (Register for webinar) Thursday, November 5, 2015 (10:00 AM to 11:30 AM) (Register for webinar)

Based on demand, additional workshops may be scheduled in the future. Notices about additional preapplication workshops will be sent via email to parties that have signed up to receive free <u>TFCA email alerts</u>. Interested parties are also encouraged to visit the <u>Program website</u> for updates.

PROGRAM CONTACT INFORMATION

Please direct all questions about this solicitation in writing to Chengfeng Wang, Supervising Air Quality Specialist, either by email at <u>cwang@baaqmd.gov</u> (subject "EV Charging Station Demonstration Program") or by mail to: Chengfeng Wang; 939 Ellis Street, San Francisco, CA 94109.

Any verbal communication with an Air District staff person concerning this solicitation is not binding on the Air District and shall in no way alter a specification, term, or condition of the solicitation.

Responses to questions, Program materials, and Program updates will be posted on the Program website.

APPLICATION FORMAT, REQUIRED DOCUMENTS, AND DELIVERY

Complete application packages must be received by the Air District both electronically (using the <u>Online</u> <u>Application Form</u>) and as a hardcopy (one copy) by 4 PM, <u>October 8, 2015</u><u>December 18, 2015</u>.

Application packages must include the following documents:

- Completed <u>Online Application Form</u>
- Evidence of Authority to Apply and Implement Project, either a signed:
 - 1) Letter of commitment from the applicant's representative with authority (e.g., Chief Executive or Financial Officer, Executive Director, or City Manager); or
 - 2) Resolution from the governing body (e.g., City Council, Board of Supervisors)
- Proof of authority to install and operate each Charging Station (e.g., copy of deed or copy of signed agreement with the owner if the property is not owned by the applicant)
- Map showing each proposed Facility and the location of each Charging Station
- Copy of cost estimate for each charger at each facility
- Estimate of usage for each Charging Station with supporting documentation (for projects requesting case-by-case evaluation)
- Proof of insurance
- W-9 Form (submit only as a hardcopy; do not upload)

The hardcopy must be mailed to: Bay Area Air Quality Management District ATTN: SID "EV Charging Station Demonstration Program" 939 Ellis Street, San Francisco, CA 94109

PROGRAM REQUIREMENTS

BASIC ELIGIBILITY

The Air District will fund only Eligible Projects proposed by Eligible Recipients.

1. Eligible Projects: Only projects that result in the surplus reduction of motor vehicle emissions (i.e., reductions that are beyond what is required by regulations, contracts, and other legally binding obligations at the time the Air District executes the project's funding agreement) within the <u>Air District's jurisdiction</u> are eligible.

Eligible projects must conform to the provisions of the California Health and Safety Code (HSC) sections 44220 et seq. and meet all of the Project Requirements.

2. Eligible Recipients: Only public agencies are eligible. Eligible <u>R</u>recipients must meet all of the Applicant/Grantee Requirements.

APPLICANT/GRANTEE REQUIREMENTS

- 3. Grantees are required to do the following:
 - A. Operate and maintain each charging station for a minimum period of three (3) years after the last of a Project's Charging Stations is placed into service and becomes available for use by the public.
 - B. Maintain the Charging Stations properly and guarantee that the stations are accessible and serviceable for 90 percent of the days during each calendar year.
 - C. Allow the Air District or its authorized representatives to conduct financial audits and agree to make available to the Air District all records relating to project performance and expenses incurred in the implementation of the project.
 - D. Allow the Air District, the RFG Fund Administrators, and/or their authorized representatives to inspect the charging station locations and equipment at all times during the Project Life. Grant recipients shall cooperate with such inspections; the Air District shall make reasonable efforts to conduct such inspections during normal business hours.
 - E. Prepare and maintain all necessary project records to document project activities and performance to support the Program reporting requirements. Grant recipients shall submit the required Semi-Annual, Interim Status, and Operational Reports to the Air District by the due dates specified in the grant agreement.
 - F. Acknowledge the Air District, the Reformulated Gasoline Settlement Fund, and the Bay Area Clean Air Foundation as a project funding source at all times during the Project Life.
 - G. Install, maintain, and operate the funded equipment in accordance with all applicable state, federal and local laws and regulations, including compliance with all applicable requirements of the Americans with Disabilities Act (ADA) throughout the Project Life.
 - H. Allow the Air District or its authorized representatives to compile reported usage information about the Project into a white paper that will be made publicly-available.
- 4. Authority to Apply and Implement Project: Applicants must demonstrate that they have the legal authority to submit the application, to enter into a Project Funding Agreement, to carry out the project, and to bind the applicant entity to perform all of the work associated with the proposed project, including the right or authorization to apply for and obtain necessary electrical/building permits, to install and operate the charging station until the usage requirements are met and for a minimum of three years, and to provide all required funding.
- 5. Viable Project and Matching Funds: This Program provides incentive funding on a reimbursement basis. Up to 85% of the funds awarded will be reimbursed after the last project charging station has been placed into service and up to 15% (the withheld amount) will be reimbursed after all of the Project Requirements have been satisfied. Therefore, applicants must demonstrate that they have adequate funds from a non-Air District source to cover all stages of their proposed project(s) from

commencement through the end of their Project's Life. In addition, applicants must demonstrate that they have available and are ready to commit all necessary matching funds from a non-Air District source of funding.

- 6. In Compliance with Air Quality Regulations: Applicants must certify that, at the time of the application and at the time of issuance of the grant, they are in compliance with all local (e.g., Air District), State, and Federal air quality regulations. Applicants who have an unresolved violation of Air District, State, or Federal air quality rules or regulations are not eligible for funding. The Air District may terminate a grant agreement and seek reimbursement of distributed funds from project sponsors who were not eligible for funding at the time of the grant.
- 7. In Compliance with Agreement Requirements: Project sponsors who have failed to meet contractual requirements such as project implementation milestones or monitoring and reporting requirements for any project funded by the Air District may not be considered eligible for new funding until such time as all of the unfulfilled obligations are met.
- 8. Executed Funding Agreement: Only a fully-executed funding agreement (i.e., signed by both the project sponsor and the Air District) constitutes the Air District's award of funds for a project. Approval of an application for the project by the Air District Board of Directors or notices such as a transmittal letter announcing the proposed award do not constitute a final obligation on the part of the Air District to fund a project.

Applicants must sign and return the Project Funding Agreement(s) within 60 days from the date the agreement(s) was transmitted to them in order to remain eligible for award.

- **9. Maintain Insurance:** Project sponsors must maintain general liability insurance and additional insurance that is appropriate for its specific project type throughout the grant agreement term and the Project's Life, with coverage being no less than the amounts specified in the respective funding agreement (see Appendix A). Project sponsors shall require their subcontractors to obtain and maintain such insurance of the type and in the amounts required by the grant agreements.
- **10. Independent Air District Audit Findings and Determinations:** Project sponsors who have failed either a fiscal audit or a performance audit for a prior Air District funded project will be excluded from future funding for three (3) years from the date of the Air District's final determination of the finding(s) in accordance with HSC section 44242. Additionally, project sponsors with open projects will not be reimbursed until all audit recommendations and remedies have been satisfactorily implemented.

A failed fiscal audit means an uncorrected audit finding that confirms an ineligible expenditure of funds. A failed performance audit means that a project was not implemented as set forth in the project funding agreement.

Project sponsors must return funds that the Air District has determined were expended in a manner contrary to the Program Requirements and/or requirements of HSC Code section 44220 et seq. or otherwise failed to comply with the approved project scope, as set forth in the Project Funding Agreement. Applicants who failed to reimburse such funds to the Air District from prior Air District funded projects will be excluded from future TFCA funding until corrected.

- **11. Good Faith Application:** Applications will be evaluated and recommendations for award of funding will be made based on the information provided by the applicants. The Air District reserves the right to reject an application and/or cancel an award at any time if any of the following circumstances are discovered:
 - A. The application contains false or intentionally misleading statements or references which do not support an attribute or condition contended by the applicant.
 - B. The application is intended to erroneously and fallaciously mislead the Air District in its evaluation of the application and the attribute, condition, or capability is a requirement of this solicitation.
 - C. The application does not literally comply or contains caveats that conflict with the solicitation and the variation or deviation is material or it is otherwise non-responsive.

PROJECT REQUIREMENTS

12. Cost-Effectiveness: The Air District will determine the estimated emission reductions, gasoline reductions, and funding effectiveness for the project. Furthermore, projects must not exceed a maximum cost-effectiveness (C-E) (/weighted ton) limit of \$250,000 based on the ratio of TFCA fund awarded divided by the sum of surplus emissions reduced of reactive organic gases (ROG), nitrogen oxides (NO_x), and weighted PM₁₀ (particulate matter 10 microns in diameter and smaller) over the Project Life. Projects that propose renewable energy generation must not exceed a C-E limit of \$500,000.

Applicants that propose projects that include qualifying dual chargers, chargers that can re-charge vehicles faster, and that request the least amount of funding per charger, will be considered the most cost-effective and will receive a higher C-E score.

- 13. Readiness: Projects must meet the following implementation milestones:
 - A. Within 90 days from the date the funding agreement is executed: The project sponsor is required to notify the Air District in writing of the status of its implementation of the Project and is required to submit evidence that significant preparatory work has been completed (e.g., permits obtained, CEQA completed, equipment purchased).
 - B. Within 6 months from the date the funding agreement is executed: All Project equipment/stations must be installed and available for use by the public; all Project expenses have been incurred.

Applicants that propose projects that have complied with all applicable local permitting authority requirements (e.g., obtained permits, completed CEQA) will be considered the most "shovel-ready" and will receive a higher Readiness score.

- 14. **Project Revisions:** The Air District will consider only requests for modifications to approved projects that achieve the same or better cost-effectiveness, comply with all Program Requirements, and are in compliance with all applicable Federal and State laws, and District rules and regulations. The Air District may also approve minor modifications, such as to correct typographical mistakes in the grant agreements or to change the name of the grantees, without re-evaluating the proposed modification in light of the regulations, contracts, and other legally-binding obligations that are in effect at the time the minor modification was proposed.
- 15. Charging Station Requirements: Projects must meet the following general requirements:
 - A. Charging Stations must be installed at locations within the boundaries of the <u>Air District's</u> <u>jurisdiction</u>.
 - B. Charging Stations shall use an open communication protocol if networked.
 - C. Charging Stations shall have the ability to collect fees from users/customers (e.g., pay-for-use, pay at parking garage). If payment is required to access or use a Charging Station, subscription fees or memberships are allowed; however, the stations must also be capable of accepting payment from non-members (e.g., credit cards, or other forms of on-demand payment).
 - D. Charging Stations shall be installed in a well-lit, secure area.
 - E. Project Sponsors may install equipment for use by their own fleet or employees but at least 50% of the Program-funded Charging Stations installed must be accessible for public use.
- **16.** Eligible Facility Categories: Each Project consists of one or more Facilities; each Facility must comply with its facility-specific requirements listed below:
 - A. **Transportation Corridor Facilities primarily consist of one or more DC Fast Chargers** and must meet the following additional requirements:
 - i) DC Fast Charging Stations must be located within one mile driving distance from the exit of a heavy volume expressway, conventional highway, or freeway, and at least 10 miles driving

distance away from the nearest existing publicly-available DC fast charging station. Applicants may propose to install equipment closer than the 10-mile limit if they provide evidence that the nearest existing location is not sufficient to meet the demand for charging in the proposed corridor.

- ii) Charging Stations shall be accessible for use 24 hours a day/365 days per year.
- iii) Level 2 Charging Stations may be co-located to complement DC Fast Charging Stations; however, Level 1 Charging Stations installed at Transportation Corridor Facilities are not eligible for funding.
- B. Workplace Charging Facilities are located at anon-residential business employment centers (e.g., business park, office complex) and must meet the following additional requirements:
 - i) Charging Stations shall be accessible, at a minimum, during regular business hours.
 - Applicants who propose projects at Workplace Charging Facilities must also provide a description of how they will encourage shared use of the Charging Stations to maximize their use.
- C. Destination Charging Facilities are located in close proximity to and directly serve one or more commercial activity center (e.g., mixed use, recreational facilities). Destination Charging Facilities must also be accessible to the public, at a minimum, during regular business hours.

17. Case-by-Case Projects:

- A. **Other Charger Types:** Proposed projects with charger types not listed in Table 1 may be evaluated on a case-by-case basis. The proposed charger type must be certified by an independent and nationally-recognized testing and certification company (e.g., Underwriters Laboratories, Inc., Intertek). The charger type must also be able to re-charge California Air Resources Board certified plug-in electric vehicles. Applicants who propose projects with charging types that are not listed in Table 1 must also provide information showing how the usage requirements will be satisfied and an explanation about how the proposed Charging Stations will provide public benefits.
- B. Lower Usage Requirements: Applicants may propose a lower usage requirement than the limits listed in Table 1 for a reduced award amount.
- C. **Chargers Serving TFCA-Funded Fleets**: Applicants may propose projects with chargers that will also serve vehicles that have previously received TFCA funds; however new award amounts will be reduced by the corresponding amount of TFCA funds awarded for each of the vehicles.
- **18.** Solar or Wind: Projects that propose to offset their Charging Stations' energy demand with on-site zero-emission power generation, either by wind or by solar, may qualify for additional funding. Pre-existing solar and wind installations will not qualify for additional funding. Note: Renewable energy credits (RECs) cannot be used to qualify for the higher funding limits.

INELIGIBLE PROJECTS AND COSTS

The following costs are neither eligible for reimbursement nor can be applied to fulfill matching fund requirements.

- **19. Duplication:** Projects that have previously received TFCA Funds (including Regional Funds or County Program Manager Funds) and do not propose to achieve additional emissions reductions are not eligible. Additionally, projects that propose charging stations that serve only, or primarily, vehicles that were paid for with TFCA funds, and therefore would not achieve additional emissions reductions, are also not eligible.
- **20. Planning Activities:** The costs of preparing or conducting feasibility studies or any other planning activities are not eligible.
- 21. Costs Incurred Prior to the Execution of a Funding Agreement: Costs incurred prior to the execution of a funding agreement (e.g., costs related to the development of proposals and applications, obtaining quotes, permitting fees) are not eligible.

- 22. Costs for Maintenance, Repairs, and Operations: Costs incurred from building or repaving parking areas, maintenance, repairs, rehabilitation, extended warranties or maintenance agreements, electricity use (utility), and operations (e.g., network fees) are not eligible.
- **23.** Administrative Costs: Administrative costs are not eligible for Program funding. Administrative costs include accounting for Program funds and fulfilling contractual obligations, including, but not limited to participation in roundtable discussions and case studies, audits, reporting and record-keeping requirements specified in the funding agreement.

MONITORING, REPORTING, AND CASE STUDY PARTICIPATION

- 24. **Progress Reports:** Project sponsors are required to monitor and report on their Project's status during the implementation and operational phases.
- **25. Case Study Participation:** In addition to expanding the availability of charging stations in the Bay Area, another Program objective is to gather usage information, document challenges, and develop best practices for the future deployment of charging stations. Therefore, applicants who are awarded funding through this Program will be required to share charger usage data, attend roundtable discussions regarding their Project, and participate in case studies to share information about their Project and lessons learned. Data and usage statistics generated from this Program will be published in a white paper and made publicly-available.

FUNDING LIMITS, USE OF GRANT AND MATCH FUNDS, AND REIMBURSEMENT PROCESS

26. Minimum Grant Amount: \$10,000 per application (and completed project). The Air District reserves the right to terminate the funding agreement and cancel an award if a project sponsor reduces a Project's scope and the final amount that is eligible for reimbursement falls below the Minimum Grant Amount.

27. Maximum Grant Amount:

A. \$250,000 per applicant for Projects that deploy Level 2 and Level 1 Charging Stations.

B. For applicants proposing Projects with DC Fast Chargers, the maximum funding limit is increased to \$600,000 per applicant; however, any additional funding requested above the \$250,000 limit may only be used for the installation of DC Fast Chargers.

The Air District reserves the right to increase or decrease these limits.

28. Funding Award Limits: This is a competitive solicitation; applicants requesting less funds per charger or proposing qualifying dual chargers or charging stations that can re-charge vehicles faster, will rank higher on cost-effectiveness.

The total award amount for each Project is limited to 90% of eligible project costs incurred. The award per Charging Station is limited to the amount, varying by charger type, listed in Table 1 below. These funding amounts have been determined based on the estimated usage of each charger type. Definitions for the charger types can be found in Appendix B. The total Project Life usage requirement per charger is also listed in Table 1 below.

	Maximum Funding Amounts (Usage Requirement ³)						
Project Scope	Level 1 (1,500 kWh)	Level 2 (9,000 kWh)	DC Fast (75,000 kWh)				
Charging Station	\$3,000	\$11,000	\$75,000				
Bonus for Solar or Wind Power	\$0.50 per kWh generated, up to a maximum of:						
	\$500	\$3,000	\$25,000				
🐈 🕂 🗰 Total Maximum	\$3,500	\$14,000	\$100,000				

Table 1. Funding Award Limits and	Usage Requirements per	Charging Station
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The Air District may recommend a lower funding award to applicants who have not fully demonstrated how they will fulfill the usage requirements. Similarly, Project Sponsors that fail to meet the usage requirements will have their Funding Amounts for the Charger and the Solar or Wind Bonus proportionally reduced, based on the percentage of their usage requirement that is fulfilled.

- **29.** Eligible Project Costs: Only costs that are *directly related* to the installation of the approved Charging Station(s) and incurred after the execution of the Project Funding Agreement are eligible for reimbursement. The following costs are eligible for funding and may be considered as match funds:
 - A. Charging Station hardware, including tax and shipping fees;
 - B. Labor, materials (e.g., trenching, wiring, and conduit), and necessary electrical upgrades to meet the demands of the Charging Stations (i.e., electrical panels and transformers);
 - C. Permit fees;
 - D. Hardware equipment separate from the charger used to record kWh dispensed from the equipment to PEVs (e.g., separate meter, data logger); and
 - E. Additionally, for projects that propose to incorporate a solar or wind power generation component:
 - i) Power generation and battery storage hardware, including tax and shipping fees;
 - ii) Labor and materials directly related to the installation of power generation and battery storage equipment.
- **30.** Funding for Chargers Serving TFCA-Funded Vehicles: The Air District provides funding for the purchase and lease of new plug-in electric vehicles through its <u>PEV Rebate Program</u>. Applicants interested in purchasing vehicles along with deploying chargers are encouraged to apply to both programs separately. Proposed projects for chargers that will service public fleets that have received Air District funding will be evaluated on a case-by-case basis.
- **31. Reimbursement Process:** Payment is made on a reimbursement basis after all Project equipment is placed into service and after all Project costs have been incurred and documented.

Up to 85% of the funds awarded will be reimbursed after the last Project Charging Station has been placed into service and after the Air District has received and approved the Interim Status Report and

³ The Project Life usage requirement will be evaluated on a per Project basis across all funded Charging Stations.

invoice for each Facility. The remaining 15% (the withheld amount) is reimbursed after the Project Sponsor submits the final Operational Report and all of the other Project Requirements have been satisfied.

The award and reimbursable amount may be reduced (prorated) if the Project's usage requirements are not satisfied by the end of the Project Life or if the actual total project cost is less than the estimated total project cost.

EVALUATION CRITERIA

Proposed projects must meet all the Program Requirements, and applications will be scored in each of the first five evaluation criteria outlined in Table 2. Projects will be ranked by calculating the percentage of total eligible points scored in descending order. In the event that two or more projects achieve an equal score, the project with the best TFCA cost-effectiveness will receive a higher ranking.

Recommendations for award of funds will be made beginning with the highest ranking project and proceeding in sequence to lower ranking projects. If the solicitation for these funds is oversubscribed, the point where the next-ranked eligible project cannot be fully funded defines the cut-off point for the funding, i.e., all projects above this point will be recommended for award; projects below the cut-off point will be placed on a waitlist, and will be considered for award if funding becomes available.- If the program is undersubscribed, a second solicitation for projects may be issued at a later date.

Applications will be scored and ranked using following evaluation criteria:

Table 2. Evaluation Criteria

	Criteria	Max Points
1.	Cost-Effectiveness (C-E): Projects will be evaluated based on the ratio of funds requested to gallons of gasoline use reduced and the ratio of funds requested to tons of tailpipe criteria pollutant emissions reduced.	
	Examples of projects that will score higher in this criterion include those that request less than the maximum amount of funding allowed per charger, or propose charging stations with dual ports capable of refueling two vehicles at the same time and at the same charging rate required of a single charger or charging stations that can re-charge vehicles faster.	75
	Air District staff will determine the estimated emissions reductions, gasoline use reductions, and funding effectiveness based on the information provided in the applications.	
2.	Readiness : Projects that have complied with all applicable local permitting authority requirements (e.g., obtained permits, completed CEQA) will be considered the most "shovel-ready" and will qualify for additional points.	10
3.	Public Accessibility : Projects that have more than 50% of their charging stations available for public use will qualify for additional points.	10
4.	Charger Network Expansion : Projects installing charging stations that are located at least two miles driving distance from the nearest charging station will qualify for additional points.	5
5.	Highly-Impacted Community: The first 25% of funding will be reserved for the highest-scoring projects located in <u>Community Air Risk Evaluation (CARE) Program areas</u> .	Y/N
	TOTAL	100

Projects must achieve a minimum score of 70 points to be considered for funding. The Air District reserves the right to request additional information to substantiate an applicant's request for funding.

APPENDIX A: INSURANCE GUIDELINES

This appendix provides guidance on the insurance coverage and documentation typically required for grant funded 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 project sponsor provide documentation showing that the project sponsor meets the following requirements for each of its projects.

- a) Liability Insurance with a limit of not less than \$1,000,000 per occurrence, of the type usual and customary to the business of the Project Sponsor, and to the operation of the vehicles, vessels, engines or equipment operated by the Project Sponsor.
- b) **Property Insurance** in an amount of not less than the insurable value of Project Sponsor's vehicles, engines or equipment funded under the Agreement, and covering all risks of loss, damage or destruction of such vehicles, vessels, engines or equipment.
- c) **Workers Compensation Insurance** as required by California law and employer's liability insurance with a limit of not less than \$1,000,000.
- d) 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 table lists the types of insurance coverage generally required. The requirements may differ in specific cases. Project Sponsors should contact the Air District with questions, especially about unusual projects.

Activity	Insurance Required
Charging Stations	Commercial General Liability Automobile Liability Automobile Physical Damage Workers Compensation

APPENDIX B: DEFINITIONS

Charging Station: Also known as electric vehicle supply equipment (EVSE), consist of the conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of delivering energy from the premises wiring to the electric vehicle. (http://www.psrc.org/assets/3729/A NEC 625 2008.pdf)

Destination Charging: This category is for destinations that drivers travel "medium-to-long" distances from their home and where the vehicle would tend to be parked for more than one hour. Examples of this category include shopping and retail/commercial centers, recreational areas, restaurants, theaters, stadiums, amusement parks, museums, and airports.

Direct Current (DC) Fast Charger: Configured at 40kW or higher with a CHAdeMO connector or with a dual SAE Combo and CHAdeMO connector. Requires a three-phase 208 Volt AC minimum input power. Chargers must have the ability to communicate with vehicle battery management systems and can accept various forms of payment for customers to use equipment include, but not limited to, pay-by-phone, credit card, pre-paid card, and subscription service. Payment can not only be limited to solely a subscription service. Additionally, these chargers must be certified by the Underwriters Laboratories, Inc. (UL), or equivalent safety standard.

Facility: A discrete location (e.g., same parcel number or physical address, parking structure) that has one or more Charging Stations.

Level 2 Charger: Configured to a minimum output of 6.6 kW, offers charging through 240 to 208 volt electrical service, and meets the Society of Automotive Engineers (SAE) standard J1772. Additionally, requires installation of a dedicated circuit of 20 to 100 amps and can operate at up to 80 amperes and 19.2 kW. (http://www.psrc.org/assets/3729/A_NEC_625_2008.pdf).

Level 1 Charger: Configured to a minimum output of 1.4 kW and permits plugging into a common, grounded 120-volt electrical receptacle (NEMA S-15R or S-20R). The maximum load on this receptacle is 12 amperes or 1.4 kVa. The minimum circuit and overcurrent rating for this connection is 15 amperes for a 15-ampere receptacle and 20 amperes for a 20-ampere receptacle. (http://www.psrc.org/assets/3729/A NEC 625 2008.pdf).

Plug-in Electric Vehicle (PEV): A vehicle that is propelled in part or solely by an electric motor, is capable of being recharged from an external source of electricity that meets the Society of Automotive Engineers and/or CHAdeMO protocol standard, and has a California air Resources Board fuel standard of Plug-in Gasoline Electric Hybrid or LI+.

Project: Complies with all applicable EV Charging Station Demonstration Program requirements and consists of one or more Facilities.

Project Life: The period of time that begins when the last of a Project's Charging Stations have been placed into service (and becomes available for use by the public) and ends after the Project's usage requirement has been satisfied and after all of the station have been in service for a minimum of three years.

Transportation Corridor Charging: Corridor charging gives existing and prospective electric vehicle owners the assurance that they can re-fuel when travelling long distances away from home. Chargers are sited in qualifying locations (e.g., rest areas, coffee shops, gas stations) in close proximity to major roadways and provide extended electric- range to Bay Area and long-distance PEV drivers.

Workplace Charging: Workplace charging allows PEV drivers to maximize the zero-emissions miles driven as part of their daily commute. Chargers can also be considered an amenity to the workplace's customers, employees, and to the public.

	RECOMMENDED FOR FUNDING															
Project Number	Rank	Score (points)	CARE Area	Sponsor	# of Facilities	Total Charging Stations	CO2 Reductions (tons)	Criteria Reductions (tons)	Gasoline Reduced (gallons)	Total Project Cost	Recommended Award	TFCA Portion	RFG Portion	RFG C/E	County	Percent Public
16RFG01	1	91	YES	Chabot Las Positas Comm College District	2	12	259	0.14	30,297	\$ 72,347	\$ 65,112	\$ 54,260	\$ 10,852	\$ 0.36	ALA	100%
16RFG09	2	83	YES	City of Oakland	5	6	101	0.05	11,835	\$ 85,295	\$ 41,000	\$ 28,125	\$ 12,875	\$ 1.09	ALA	55%
16RFG19	3	81	YES	County of Alameda	3	8	241	0.13	28,193	\$ 175,170	\$ 149,610	\$ 80,348	\$ 69,262	\$ 2.46	ALA	67%
16RFG17*	4	79	YES	City of Richmond	1	2	101	0.05	11,782	\$ 107,466	\$ 47,511	\$ 28,000	\$ 19,511	\$ 4.92	сс	100%
16RFG08	5	90	NO	City of Millbrae	5	8	172	0.09	20,198	\$ 142,349	\$ 78,000	\$ 48,000	\$ 30,000	\$ 1.49	SM	100%
16RFG02	6	89	NO	City of Fremont	1	9	194	0.10	22,722	\$ 107,003	\$ 81,486	\$ 54,000	\$ 27,486	\$ 1.21	ALA	100%
16RFG15	7	87	NO	City of Palo Alto	4	16	296	0.14	32,190	\$ 156,600	\$ 121,945	\$ 76,500	\$ 45,445	\$ 1.41	sc	75%
16RFG18	8	87	NO	San Francisco Bay Area Rapid Transit District (BART)	1	23	442	0.23	51,757	\$ 469,093	\$ 250,000	\$ 123,000	\$ 127,000	\$ 2.45	ALA	100%
16RFG11*	9	85	NO	The NASA Ames Exchange	1	8	718	0.38	84,157	\$ 477,786	\$ 307,569	\$ 200,000	\$ 107,569	\$ 2.73	SC	100%
TOTAL:					23	92	2,523	1.32	293,131	\$ 1,793,109	\$ 1,142,233	\$ 692,233	\$ 450,000			

Appendix B: Scoring of Projects Recommended for Funding (Original Project Scope)

*These projects are recommended for a partial award. 16RFG17 is eligible for a total award up to \$86,000. 16RFG11 is eligible for a total award up to \$430,007

Appendix C: Facility Information of Funded Projects

Facility ID	Project Sponsor	Facility Address	Type of Facility	Total No. of Stations	No. of Level 2 Ports	No. of DC Fast Stations/Ports
16RFG01_F01	Chabot Las Positas Community College District	3000 Campus Hill Drive, Livermore, CA 94568	Destination	6	12	
16RFG01_F02	Chabot Las Positas Community College District	25555 Hesperian Blvd., Hayward, CA 94545	Destination	6	12	
16RFG02_F01	City of Fremont	3000-3500 Capitol Avenue, Fremont, CA 94538	Destination	9	18	
16RFG08_F01	City of Millbrae	1 Library Ave., Millbrae, CA 94030	Destination	3	6	
16RFG08_F02	City of Millbrae	320 Magnolia Ave. Millbrae, CA 94030	Destination	1	2	
16RFG08_F03	City of Millbrae	200 Block Broadway (City of Millbrae Public Parking), Millbrae, CA 94030	Destination	2	4	
16RFG08_F05	City of Millbrae	400 Block Broadway (City of Millbrae Public Parking), Millbrae, CA 94030	Destination	2	4	
16RFG09_F01	City of Oakland	7101 Edgewater Dr., Bldg. 2, Oakland, CA	Workplace	1	2	
16RFG09_F02	City of Oakland	7101 Edgewater Dr., Bldg. 3, Oakland, CA	Workplace	2	2	1
16RFG09_F03	City of Oakland	7101 Edgewater Dr., Bldg. 5, Oakland, CA	Workplace	1	2	
16RFG09_F04	City of Oakland	5050 Coliseum, Oakland, CA	Workplace	1	2	
16RFG09_F05	City of Oakland	250 Frank Ogawa Plaza, Oakland, CA 94612	Destination	1	2	
16RFG11_F01	The NASA Ames Exchange	Bldg 25 Moffett Blvd., Moffett Field, CA 94035 (NASA Ames Visitor Parking Lot)	Workplace	8		8
16RFG15_F01	City of Palo Alto	528 High St. Palo Alto, CA 94301	Destination	2	4	
16RFG17_F01	City of Richmond	4300 Cutting Blvd., Richmond, CA 94804	Destination	1		1
16RFG17_F02	City of Richmond	256 24th St., Richmond, CA 94804	Workplace	1	1	
16RFG18_F01	San Francisco Bay Area Rapid Transit District (BART)	45193 Warm Springs. Blvd., Fremont, CA 94539	Destination	22	42	
16RFG19_F01	County of Alameda	165 13th St., Oakland, CA 94612	Workplace	4	6	1
16RFG19_F02	County of Alameda	1151 Harbor Bay, Alameda, CA 94502	Workplace	4	8	
-		Total, 19 Facilities:		77	129	11

Facility	Oct 2016	Nov 2016	Dec 2016	Jan 2017	Feb 2017	Mar 2017	Apr 2017	May 2017	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	Jan 2018	Total
16RFG01_F01					1,408	1,834	1,841	1,845	1,114	1,605	1,860	2,618	4,117	4,051	3,560	4,107	29,959
16RFG01_F02					884	1,173	1,371	1,489	1,468	2,086	3,044	3,533	3,913	3,693	2,856	4,070	29,581
16RFG02_F01												68*	891	824	1,217	1,197	4,197
16RFG08_F01			116*	3,457	3,568	3,390	1,317	1,275	1,197	1,005	1,144	1,295	1,099	1,133	1,081	1,468	22,544
16RFG08_F02			97*	1,792	1,658	1,127	502	638	725	541	652	830	790	745	776	791	11,665
16RFG08_F03			20*	2,062	2,394	2,189	1,342	1,597	1,673	1,789	2,002	1,643	2,004	1,759	2,108	2,074	24,654
16RFG08_F05			42*	2,097	2,440	2,428	1,234	1,337	1,710	1,422	1,537	1,598	1,599	1,600	2,050	1,370	22,466
16RFG09_F01	357	376	391	531	467	622	507	618	576	397	608	511	827	806	484	823	8,901
16RFG09_F02	348	426	382	518	421	509	642	713	574	468	360	455	471	404	123	310	7,124
16RFG09_F03											8*	95	147	253	322	291	1,116
16RFG09_F04										4*	6*	45	55	64	28	28	230
16RFG09_F05	38*	53	126	90	146	215	237	335	295	167	207	344	387	264	353	402	3,659
16RFG11_F01									1,592	1,338	1,263	1,494	1,992	2,237	1,687	2,220	13,823
16RFG15_F01					4,415	5,044	4,709	5,288	5,471	4,761	2,524	2,162	2,313	2,127	2,373	2,650	43,836
16RFG17_F01						12*	54	233	644	559	507	796	895	481	556	557	5,296
16RFG17_F02						591	504	661	547	406	320	639	456	504	593	658	5,878
16RFG18_F01							804*	3,419	4,205	4,670	5,650	6,211	7,679	9,023	10,318	11,732	63,712
16RFG19_F01										410*	1,553	2,638	2,456	2,646	2,784	2,714	15,200
16RFG19_F02									159*	601	406	596	704	690	510	647	4,313
All Facilities	743	855	1,174	10,546	17,801	19,134	15,066	19,447	21,952	22,230	23,652	27,571	32,793	33,302	33,778	38,110	318,154

Appendix D: Monthly Charging Data (kWh) at Each Facility

*Partial month data.

BAY AREA CLEAN AIR FOUNDATION Memorandum

- To: Chairperson David Hudson and Members of the Board of Directors
- From: Jack P. Broadbent President, Bay Area Clean Air Foundation
- Date: September 10, 2018

Re: Adoption of the Bay Area Clean Air Foundation's 2018-2019 Budget

RECOMMENDED ACTION

Recommend the Board of Directors as a Sole Member of the Bay Area Clean Air Foundation:

1) Approve adoption of the Bay Area Clean Air Foundation's 2018-2019 Budget.

BACKGROUND

Pursuant to the Foundation's Bylaws, the Air District's Board of Directors, as Sole Member of the Foundation, is required to approve the adoption of an annual budget by the Foundation. The Foundation's directors and officers recommend that the Air District's Governing Board approve adoption of the Foundation's 2018-2019 Budget, which is attached hereto.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent President, Bay Area Clean Air Foundation

Prepared by:Stephanie OsazeReviewed by:Jeff McKay

Attachment 5A:2017 Annual Report for the Bay Area Clean Air FoundationAttachment 5B:2018-2019 Budget for the Bay Area Clean Air Foundation

AGENDA 5A – ATTACHMENT

Bay Area Clean Air Foundation

2017 Annual Report

Addendum: Financial Summary

Financial Summary

As of December 31, 2017, the Foundation had a cash balance of \$849,933.80. Following is an accounting of the Foundation's operations for the 2017 calendar year:

January 1, 2017	Beginning Cash Balance	<u>\$956,347.27</u>
	Revenue from Operations	
	Interest Income	1,664.89
	General Fund Subsidy	5,939.03
	Operating Expenses	
	Project Payments	107,950.00
	Administrative Overhead/Support	1,513.13
	Tax Filing Services	3,200.00
	Insurance	1,225.90
	Other Charges	128.36

December 31, 2017	Ending Balance	<u>\$849,933.80</u>
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BAY AREA CLEAN AIR FOUNDATION

Proposed Two Year Budget

	Approved Budget Calendar Year 2017		Proposed Budget Calendar Year 2018		Proposed Budget Calendar Year 2019	
venues/Sources						
Interest Income	\$	1,150	\$ 1,500	\$	3,000	
General Fund Subsidy	\$	10,000	\$ 7,250	\$	17,500	
Grants/Contributions	\$	-	\$1,062,500		\$237,500	
Total Revenue	\$	11,150	\$ 1,071,250	\$	258,000	
Transfer from/(to) Cash Balance	\$	100,000	\$ (467,010)	\$	824,000	
Total Revenue/Sources	\$	111,150	\$ 604,240	\$	1,082,000	
penditures						
Administrative Overhead/Support	\$	6,000	\$ 3,000	\$	66,750	
Consulting Services	\$	-	\$ -	\$	10,000	
Program/Project Distributions	\$	100,000	\$ 120,000	\$	998,750	
Tax Filing Services	\$	3,000	\$ 3,300	\$	4,000	
Insurance Premium	\$	2,000	\$ 2,000	\$	2,200	
Mitigation Project Refund (Oakley)	\$	-	\$ 475,790	\$	-	
Other Charges	\$	150	\$ 150	\$	300	
Total Expenditures	\$	111,150	\$ 604,240	\$	1,082,000	

Detail Notes:

This is a two-year Proposed Budget; budget revisions will be presented in 2019 if needed

BAY AREA CLEAN AIR FOUNDATION Memorandum

To: Chairperson David Hudson and Members of the Board of Directors

From: Jack P. Broadbent President, Bay Area Clean Air Foundation

Date: September 10, 2018

Re: Appoint One (1) Director to the Bay Area Clean Air Foundation's Board of Directors

RECOMMENDATION

Recommend the Board of Directors as a Sole Member of the Bay Area Clean Air Foundation:

1) Reappoint Damian Breen for a second two-year term as a Director of the Bay Area Clean Air Foundation.

BACKGROUND

Pursuant to the By-Laws of the Bay Area Clean Air Foundation, Directors of the Foundation serve two-year terms. The By-Laws further provide that a Foundation Director may serve no more than three consecutive two-year terms, but may serve again after taking a one-year hiatus. Damian Breen, Deputy Air Pollution Control Officer (DAPCO) of the Bay Area Air Quality Management District, has reached the end of his first two-year term. The Board of the Foundation recommends that Mr. Breen, be reappointed to fill a Director seat.

BUDGET CONSIDERATION/FINANCIAL IMPACT

None.

Respectfully submitted,

Jack P. Broadbent President, Bay Area Clean Air Foundation

Prepared by:Aloha de GuzmanReviewed by:Damian Breen