



**Bay Area Air Quality Management District
Mobile Source Committee**

January 28, 2016

Projects with Proposed Awards over \$100,000

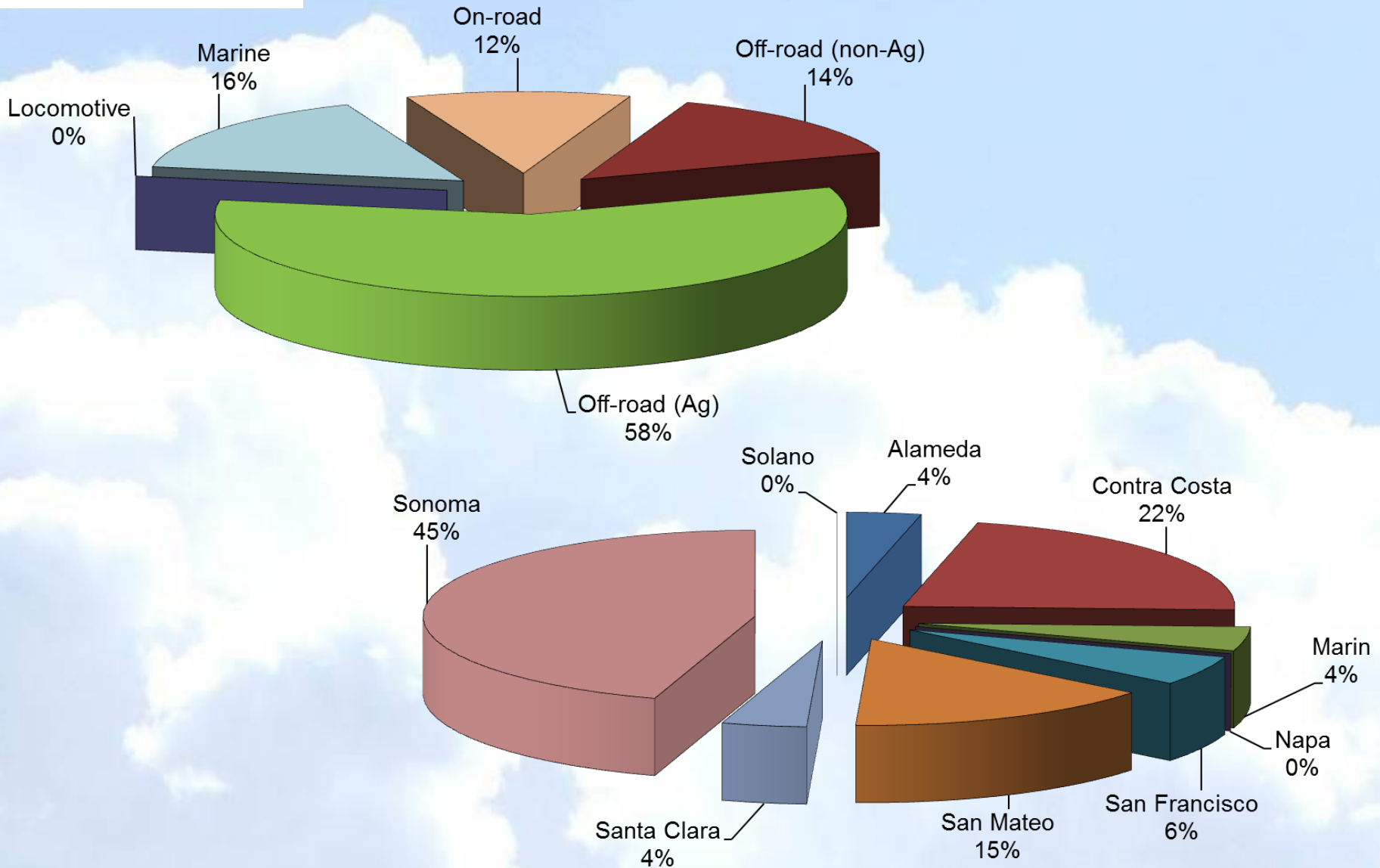
**Damian Breen
Deputy Air Pollution Control Officer**

- Background
- Proposed projects with awards over \$100,000
- Recommendations

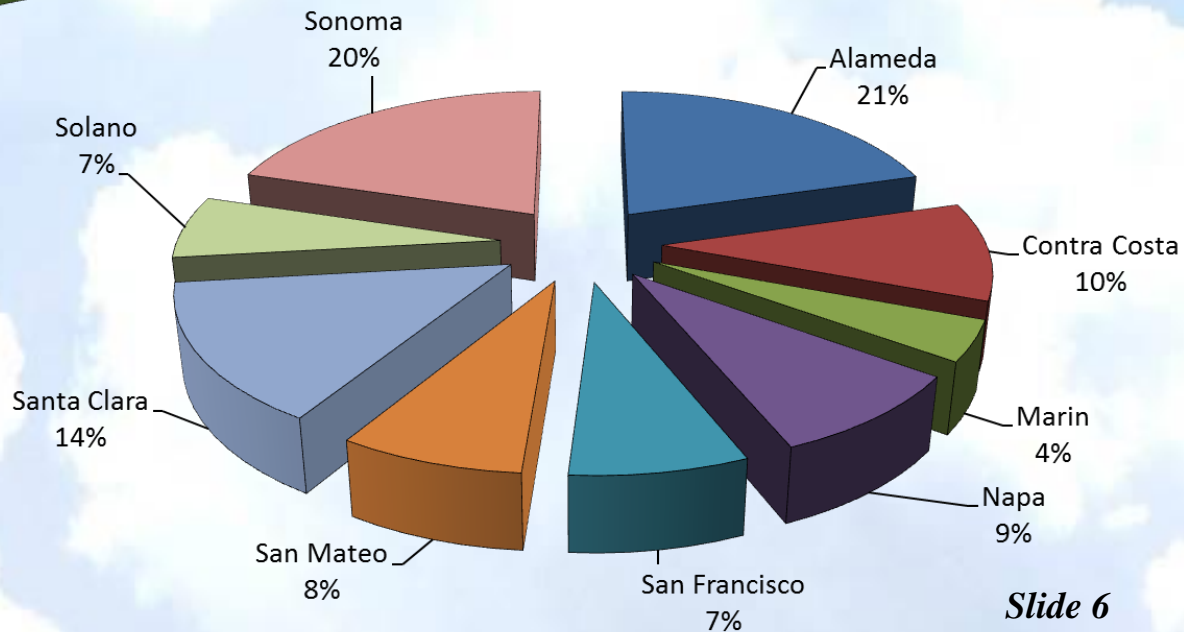
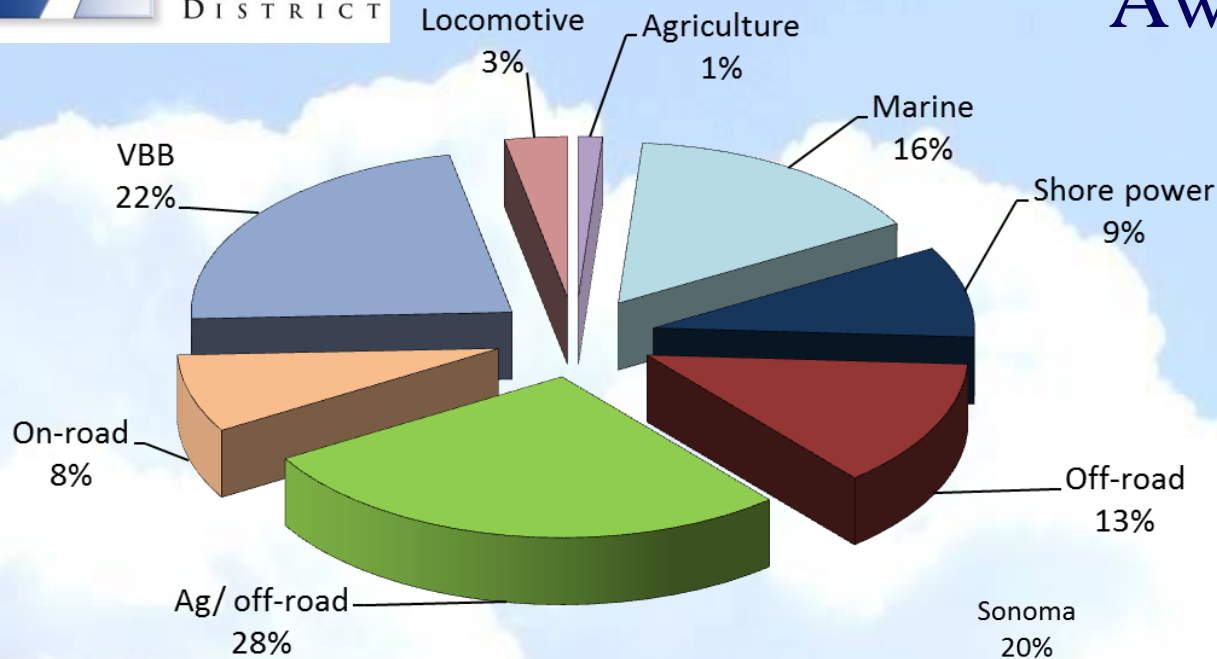
- **Carl Moyer Program (CMP)**
 - Created in 1998 to reduce emissions from heavy-duty engines
 - Voluntary program that funds surplus emission reductions
- **Mobile Source Incentive Fund (MSIF)**
 - AB 923 allowed for additional \$2 motor vehicle registration fee surcharge (12/04)
 - CMP and LESBP projects eligible for MSIF funding
- **Transportation Fund for Clean Air (TFCA)**
 - Funding provided by a \$4 surcharge on motor vehicles
 - Statutory authority for the TFCA and requirements of the program are set forth in California Health and Safety Code Sections 44241 and 44242

- **On 2/18/15 Air District Board of Directors:**
 - Approved participation in CMP Year 17
 - Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000
- **CMP Project Recommendations over \$100k:**
 - 2 Projects to reduce emissions from 1 off-road tractor, and 2 marine engines
 - \$379,820 in total awards
 - Emission reductions: Over 2.4 TPY of criteria pollutants

CMP and MSIF Funds Awarded as of 1/7/16



CMP and MSIF Funds Awarded since 2009



- **Air District Board of Directors:**

- Allocated \$24.47 million in TFCA funding for eligible project categories, 5/6/15
- Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to \$100,000, 5/6/15
- Adopted policies and evaluation criteria for the FYE 2016 TFCA funded projects on 5/6/15 and 7/29/15

- **TFCA Project Recommendations over \$100k:**

- 3 projects to install electric vehicle charging stations including:
 - One project: 7 dual-port Level 2 and 2 DC fast charge stations (with solar)
 - Two projects: 24 single-port DC Fast charging stations (with solar)
- Proposed total award of \$423,190
- Emission reductions: Over 0.133 TPY of criteria pollutants

TFCA Funds

by Project Category and by County
(Eligible projects evaluated between 7/1/15 and 1/7/16)

Figure 1: Funds Distributed by Project Category

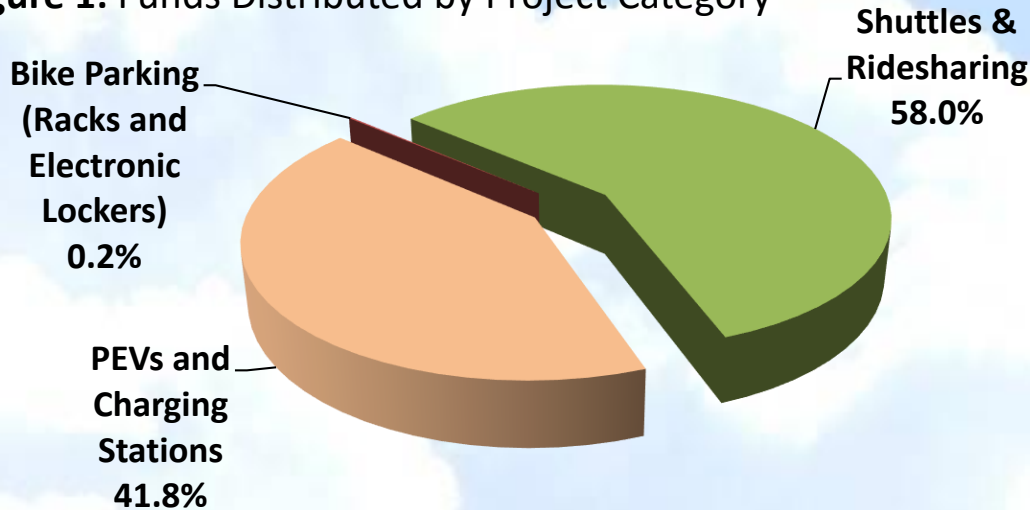
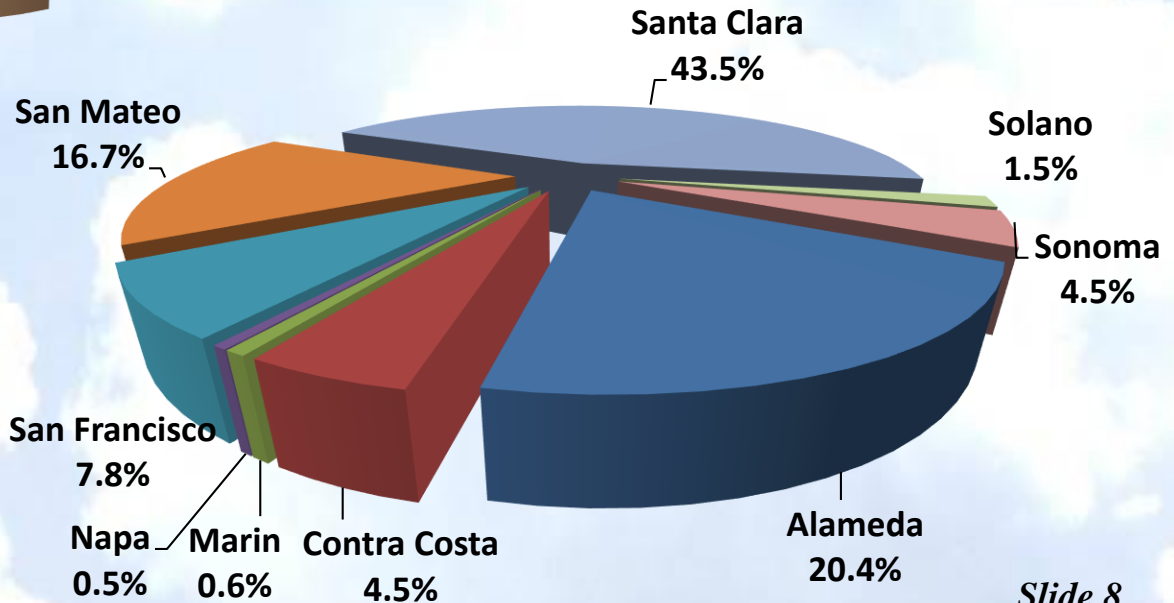


Figure 2: Funds Distributed by County



Recommendations

Recommend the Board of Directors:

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



AGENDA: 5

Bay Area Air Quality Management District Mobile Source Committee

January 28, 2016

Electric Vehicle Charging Demonstration Program

Damian Breen
Deputy Air Pollution Control Officer

- Background
- RFG Open Grants Program
- EV Charging Station Demo Program
 - Description and Evaluation Criteria
 - Evaluation Results
- Recommendations

- **Reformulated Gasoline Settlement Fund (RFG)**
 - Settlement of 14 class action lawsuits (2008)
 - Total settlement funds of ~\$48 million
 - Funds used for vehicle emission reductions or fuel efficiency benefits for CA consumers
 - ~ \$7 million of RFG Settlement Funds allocated to Open Grants Program
 - ❑ *Only non-profits eligible for funding*
 - ❑ *Majority of funding awarded in 2010*
 - ❑ *One grant to Air District's Bay Area Clean Air Foundation (BACAF) to deploy 10 converted plug-in electric vehicles with City CarShare*

RFG Open Grants Program

- **February 5, 2015:** Air District in partnership with BACAF applied for \$500,000 RFG funds for EV charging project
- **May 2015:** Court awarded \$500,000 in RFG funds for a Electric Vehicle Charging Demonstration Program:
 - \$450,000 for direct project costs,
 - \$20,000 for the development of a White Paper, and
 - Up to 6% to pay for administrative expenses

Eligibility and Evaluation Criteria

- Combines RFG funding with *Charge!* Program. Recipients must:
 - Be a public agency
 - Comply with TFCAs *Charge!* Program requirements
 - Have at least 50% of chargers open to public
- Funds awarded through a competitive process that considers:
 - Cost-effectiveness (of reducing gasoline usage)
 - Readiness
 - Expansion of region's charging network
 - CARE Areas (25% of RFG funds reserved)

Eligible Locations

- Workplace
- Destinations
- Transportation Corridors


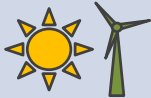



Eligible Chargers

- Level 1
- Level 2
- DC Fast

Program Funding Amounts

Minimum: \$10,000 per application

Maximum: \$250,000 (for L1 and L2 chargers); \$600,000 (with DC Fast) per applicant

Project Scope	Maximum Funding Amounts per Charger (Usage Requirement Over 3 Yrs.)		
	Level 1 (1,500 kWh)	Level 2 (9,000 kWh)	DC Fast (75,000 kWh)
 Charging Station Only	\$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
   Max. Award	\$3,500	\$14,000	\$100,000

Process and Evaluation Results

- Solicitation period: August 18 - December 18, 2015
 - Four pre-application webinars
 - Direct in-person outreach at public events
 - 17 applications were received, requesting \$2.6 million
- Nine projects recommended for award:
 - 4 CARE Area Projects: 3 projects recommended for full award (TFCA: \$162,733) and 1 for partial award (TFCA: \$28,000)
 - 5 non-CARE Projects: 4 projects recommended for full award (TFCA: \$301,500) and 1 for partial award (TFCA: \$200,000)
- Estimated emission reductions:
 - 1.3 tons of criteria pollutants
 - 2,500 tons of CO₂
 - 290,000 gallons of gasoline
- 27% of TFCA funds to CARE Areas (25% of RFG funds)

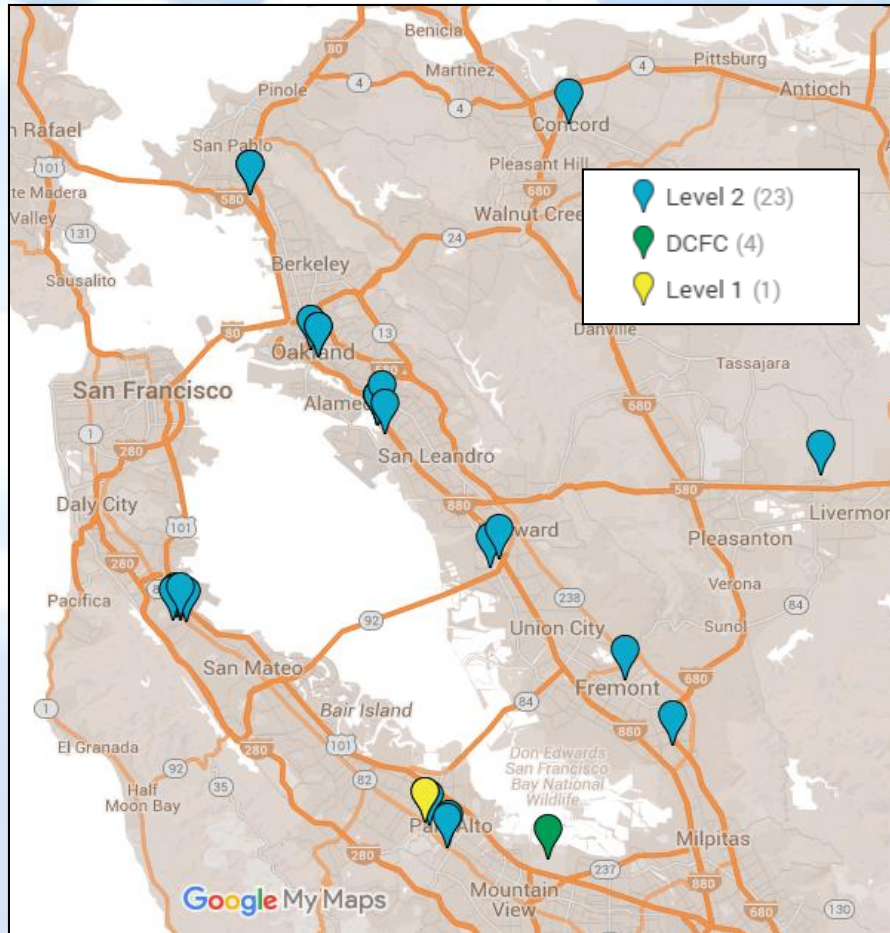
Projects Recommended for Award

(Attachment A)

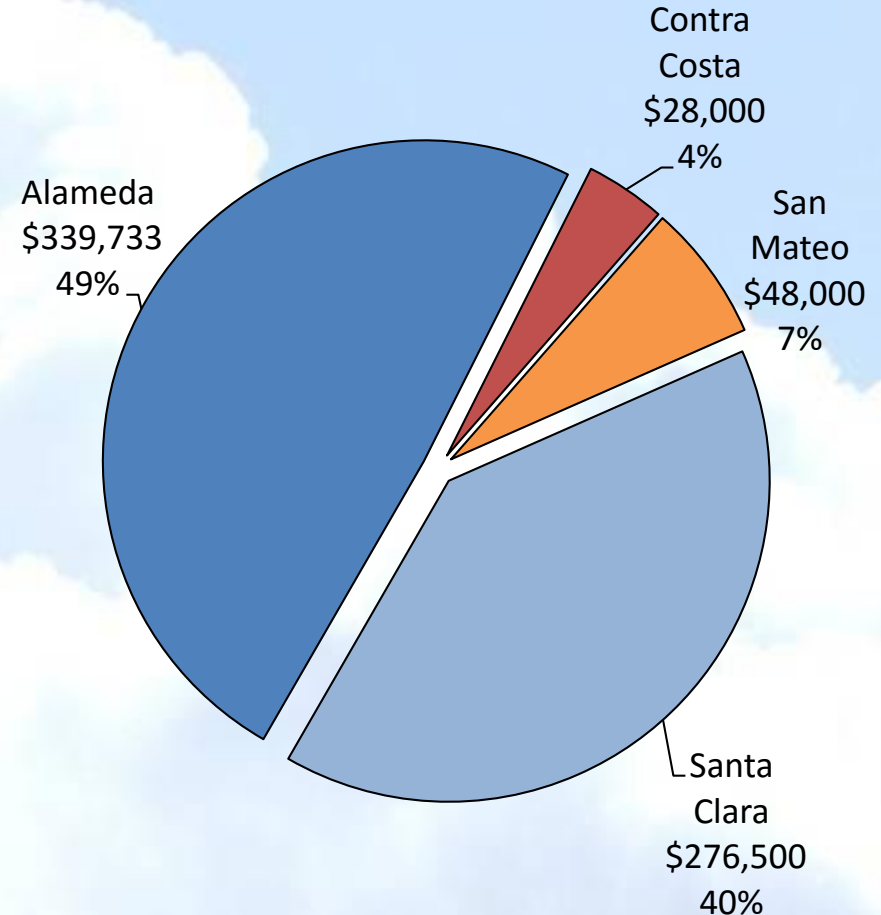
Project Number	Rank (Score)	Sponsor	# of Facilities	CO2 Reductions (tons)	Criteria Reductions (tons)	Gasoline Reduced (gallons)	Total Project Cost	Recommended Award	TFCA Portion	RFG Portion	Max. RFG C/E	County
CARE Area Projects												
16RFG01	1 (91)	Chabot Las Positas Comm College District	2	259	0.14	30,297	\$ 72,347	\$ 65,112	\$ 54,260	\$ 10,852	\$ 0.36	ALA
16RFG09	2 (83)	City of Oakland	5	101	0.05	11,835	\$ 85,295	\$ 41,000	\$ 28,125	\$ 12,875	\$ 1.09	ALA
16RFG19	3 (81)	County of Alameda	3	241	0.13	28,193	\$ 175,170	\$ 149,610	\$ 80,348	\$ 69,262	\$ 2.46	ALA
16RFG17*	4 (79)	City of Richmond	1	101	0.05	11,782	\$ 107,466	\$ 47,511	\$ 28,000	\$ 19,511	\$ 4.92	CC
Non-CARE Area Projects												
16RFG08	5 (90)	City of Millbrae	5	172	0.09	20,198	\$ 142,349	\$ 78,000	\$ 48,000	\$ 30,000	\$ 1.49	SM
16RFG02	6 (89)	City of Fremont	1	194	0.10	22,722	\$ 107,003	\$ 81,486	\$ 54,000	\$ 27,486	\$ 1.21	ALA
16RFG15	7 (87)	City of Palo Alto	4	296	0.14	32,190	\$ 156,600	\$ 121,945	\$ 76,500	\$ 45,445	\$ 1.41	SC
16RFG18	8 (87)	San Francisco Bay Area Rapid Transit District (BART)	1	442	0.23	51,757	\$ 469,093	\$ 250,000	\$ 123,000	\$ 127,000	\$ 2.45	ALA
16RFG11*	9 (85)	The NASA Ames Exchange	1	718	0.38	84,157	\$ 477,786	\$ 307,569	\$ 200,000	\$ 107,569	\$ 2.73	SC
TOTAL:			23	2,523	1.32	293,131	\$ 1,793,109	\$ 1,142,233	\$ 692,233	\$ 450,000		

*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

Projects Recommended for Award (Cont.)



**Recommended TFCA Awards
(by County)**



Contingency List

(Attachment B)

Project Number	Rank (score)	Sponsor	# of Facilities	CO2 Reductions (tons)	Criteria Reductions (tons)	Gasoline Reduced (gallons)	Total Project Cost	Eligible Award	TFCA Portion	RFG Portion	Max RFG C/E	County
16RFG13	10 (79)	City of Saratoga	1	90	0.05	10,520	\$ 90,892	\$ 75,000	\$ 25,000	\$ 50,000	\$ 4.75	SC
16RFG12	11 (79)	Sonoma County Office of Education	1	101	0.05	11,782	\$ 124,049	\$ 86,000	\$ 28,000	\$ 58,000	\$ 4.92	SON
16RFG03	12 (76)	Contra Costa County	3	76	0.04	8,858	\$ 81,147	\$ 66,000	\$ 20,953	\$ 43,581	\$ 4.92	CC
16RFG06	13 (69)	City of Santa Clara	1	54	0.03	6,347	\$ 88,599	\$ 79,739	\$ 30,168	\$ 31,227	\$ 4.92	SC
TOTAL:			6	320	0.17	37,507	\$ 384,687	\$ 306,739	\$ 104,121	\$ 182,809		

Projects Not Recommended

(Attachment C)

Project Number	Sponsor	Reason for Rejection	Description
16RFG05	County of Napa	Application incomplete	No hardcopy submitted
16RFG14	San Mateo County Community College District	Project Sponsor withdrew application	Applicant decided to withdraw their application after submittal
16RFG10	City of Concord	Project did not meet minimum Program requirements	Award amount is below the Program minimum threshold
16RFG16	The eastern Contra Costa Transit Authority	Application incomplete	No hardcopy submitted

Recommend the Board of Directors:

1. Approve the award of Transportation Fund for Clean Air (TFCA) funding to the Electric Vehicle Charging Station Demonstration Program (Program) projects listed in Attachment A and contingency projects listed in Attachment B; and
2. Authorize the Executive Officer/APCO to execute all contracts to expend TFCA funding for the recommended Program projects listed in Attachment A and contingency projects listed in Attachment B.



**Bay Area Air Quality Management District
Mobile Source Committee**

January 28, 2016

**Commercial Lawn and Garden Equipment
Replacement Program**

**Damian Breen
Deputy Air Pollution Control Officer**

- Background
 - Carbon Offset Fund
 - National Fish & Wildlife-funded Commercial Lawn & Garden Replacement Program
- Proposed Commercial Lawn & Garden Replacement Program (Program)
 - Program description, schedule, objectives, and funding
- Recommendations

- Carbon Offset Fund
 - 2007 Settlement Agreement between CA Attorney General (AG) and ConocoPhillips (Conoco)
 - 2008 MOU between the AG and the Air District
 - Balance of ~\$517,270 remaining
- Commercial Lawn & Garden Replacement Program (Program)
 - Jan 2015 Air District awarded \$470,000 from the National Fish and Wildlife Foundation (NFWF)
 - To date, approx. \$2,000 of funds remain

Program Description

- Bay Area commercial lawn and garden equipment inventory:
 - ~ 300,000 pieces of equipment
 - Daily emissions (tons): 0.39 ROG, 0.84 NO_x, 0.18 PM & 136 CO₂
- Program reduces emissions by *replacing older, dirty equipment with zero-emission equipment*
- Equipment targeted:
 - Lawn mowers, chainsaws, leaf blowers, line trimmers, sweepers, hedge trimmers
- If approved, the Program would launch in Spring and be completed by December 2016



Program Description (continued)

- Objectives:
 - Replace 135 pieces of public agencies' equipment
 - Reduce 0.06 ROG, 0.14 NO_x, 0.03 PM & 22 CO₂ (tons annually)
 - Lifetime cost-effectiveness ~\$122,000/ton of emissions reduced
- Program priority order (per AG/AD MOU):
 - Communities closest to Conoco Philips refinery: Rodeo, Hercules, Crockett, and Pinole
 - Alameda and Contra Costa Counties
 - All public agencies in Air District's jurisdiction
- Funding:
 - ~ \$517,270 and interest accrued from the Carbon Offset Fund
 - \$512,770 for projects/ \$4,500 for administration
 - \$45,500 from General Fund to cover balance of administrative costs

Recommend the Board of Directors:

- Allocate remaining funds totaling approximately \$517,270 and interest accrued from the ConocoPhillips-funded Carbon Offset Fund to implement a commercial lawn and garden equipment replacement program; and
- Authorize the Executive Officer/APCO to enter into funding agreements and contracts for eligible commercial lawn and garden equipment replacement projects.