Bay Area Air Quality Management District
Mobile Source Committee

November 13, 2014

Projects with Proposed Awards over $100,000

Damian Breen
Deputy Air Pollution Control Officer
Overview

• 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
• On 2/19/14 District Board of Directors:
  ➢ Approved participation in CMP Year 16
  ➢ Authorized Executive Officer/APCO to execute contracts and amendments with grant awards up to $100,000

• CMP Project Recommendations over $100k
  ➢ 8 Projects to reduce emissions from: 4 tractors, 6 loaders, and 4 marine engines
  ➢ $1,174,793 in total awards
  ➢ Emission reductions: Over 5.7 TPY of criteria pollutants
CMP/ MSIF and VIP Funds
Awarded as of 10/6/14

- On-road: 5%
- Off-road (non-Ag): 5%
- Off-road (Ag): 70%
- Marine: 20%

Areas分配:
- Solano: 2%
- Alameda: 13%
- Contra Costa: 13%
- Marin: 1%
- Napa: 23%
- San Francisco: 2%
- San Mateo: 0%
- Santa Clara: 6%
- Sonoma: 40%

Allocations Over $100k
CMP/ MSIF and VIP Funds
Awarded CMP Years 11-16

Allocations Over $100k
Recommendations

Request the Committee recommend the Board of Directors:

1. Approve CMP projects with proposed grant awards over $100,000 (Attachment 1).

2. Authorize the Executive Officer/APCO to enter into agreements for the recommended projects.
Bay Area Air Quality Management District
Mobile Source Committee

November 13, 2014

Update on the Regional Bicycle Share Pilot Project

Damian Breen
Deputy Air Pollution Control Officer
Overview

• Pilot Project Background

• Preliminary Project Results

• Future Expansion, Funding, and Next Steps
Bicycle Sharing
Background

- Member based system for short-term use
- Ideal for first and last-mile connection
- Self-serve automated stations
- Customer call center support
- Operates 24/7
Pilot Project Background

- **Launched in 5 cities on August 29, 2013**
- **Purpose:** To determine successful conditions for region-wide deployment
- **Funding:** $11.2 million (M)
  - $2.8 M – Air District
  - $7.1 M – MTC
  - $1.3 M – Local Funding
- **Partners:**
Outreach Campaigns/Promotions

BECOME A CORPORATE PARTNER!
Starting today, you can offer your employees discounted annual memberships.

SAN JOSE MUSEUM OF ART
WIN 2 ADMISSION TICKETS

MEMBER APPRECIATION WEEK
FEB 24 - FEB 28
Outreach Data Challenge

http://www.bayareabikeshare.com/datachallenge-2014

Best Overall Visualization
Virot “Ta” Chiraphadhanakul
Safety

Training Classes

URBAN BICYCLING WORKSHOP
Wednesday, November 20
7pm - 8pm

Helmet Discounts

GET $10 OFF ANY bern HELMET
### System Results
8/29/13 – 8/31/14

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
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<tr>
<td>Trips Taken</td>
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<tr>
<td>Annual (Registered) Members</td>
<td>5,012</td>
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<tr>
<td>Casual Memberships</td>
<td>31,800</td>
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</table>

THANK YOU BAY AREA!
OVER 614,600 MILES RIDDEN

bayareabikeshare.com
System Results

Trips by Community Area

Aug. 29, 2013 to Aug. 31, 2014

<table>
<thead>
<tr>
<th>Area</th>
<th># Stations</th>
<th>Trips</th>
<th>% of Total</th>
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<tr>
<td>San Francisco</td>
<td>35</td>
<td>282,603</td>
<td>89.5%</td>
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<tr>
<td>Redwood City</td>
<td>7</td>
<td>1,414</td>
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<tr>
<td>Palo Alto</td>
<td>5</td>
<td>3,700</td>
<td>1.2%</td>
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<tr>
<td>Mountain View</td>
<td>7</td>
<td>8,168</td>
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<tr>
<td>San Jose</td>
<td>16</td>
<td>19,918</td>
<td>6.3%</td>
</tr>
</tbody>
</table>

Grand Total 70 315,803
Next Steps
Data Analysis and Planning for System Expansion

- Avoided vehicle miles traveled (from mode shift)
- Greenhouse gas and criteria pollution reductions
- Member travel mode behavior (transit relationships and travel mode shift)
- Operating costs by trip and by jurisdiction
- TFCA and overall cost-effectiveness
- Options for system financial self-sustainability
- Coordination with MTC and new communities on local planning requirements
Next Steps for the Region

• MTC - Lead Agency for post – pilots in partnership w/ BAAQMD

• Projected Funding
  - $8.7 million in CMAQ funds (April 2014)
  - $7.7 million in ATP funds (pending)

• Strategic Plan (in development)

• Procurement for system operator, hardware & software (in development)

• Low Income Pilot Program

• Marketing and Outreach
East Bay Bike Share Service Area, Activity Centers, and Retail Districts

Source: LEHD 2011 and ACS 5-Year Estimates 2008-2012
Bay Area Air Quality Management District
Mobile Source Committee

November 13, 2014

Transportation Fund for Clean Air (TFCA)
County Program Manager Fund Policies
for Fiscal Year Ending (FYE) 2016

Damian Breen
Deputy Air Pollution Control Officer
Overview

• Background on TFCA
• Summary of Changes from the FYE 2015 Policies to the FYE 2016
• Process for Updating Policies
• Recommendation
• To reduce on-road mobile source emissions (est. 1991)
  ▪ Governed by California Health and Safety Code (HSC)
• $4 motor vehicle registration surcharge fee:
  ▪ 40% of funds distributed to the 9 Bay Area Congestion Management Agencies (County Program Manager Fund)
  ▪ 60% awarded directly by the Air District through the Regional Fund program and to Air District sponsored projects (e.g., Spare the Air)
• Each year, Air District Board approves TFCA policies
Summary of Revisions
FYE 2016 Policies

• Minor updates to improve clarity and adherence to HSC
• Revise the shuttle project policy to align with Board-adopted FYE 2015 TFCA Regional Fund Policies
• Add policy language related to bicycle facility projects to allow new project category (“cycle tracks”)
• Revise the policy relating to bike share projects to allow funds to be used for up to 5 years of operations
• Streamline vehicle weight categories for alternative vehicle and infrastructure policies
Process for Generating FYE 2016 Policies

- **8/29 - 9/26/14** – Solicited comments from County Program Managers on proposed policies
- **9/12/14** – Teleconference with County Program Manager representatives to discuss proposed revisions
- **By 9/26/14** – Written comments received (Attachment C)
- Incorporated comments and aligned County Program Manager Fund Policies with Board-adopted Regional Fund Policies for consistency, clarity, and best practices
Recommend the Board of Directors:

Approve proposed FYE 2016 TFCA County Program Manager Fund Policies (Attachment A)
Bay Area Air Quality Management District
Mobile Source Committee

November 13, 2014

Fiscal Year Ending (FYE) 2015 Transportation Fund for Clean Air (TFCA) Regional Fund Shuttle and Rideshare Program

Damian Breen
Deputy Air Pollution Control Officer
Overview

• Background

• FYE 2015 Shuttle and Rideshare Program:
  ➢ Policies and Evaluation Criteria
  ➢ Recommended Change to Policy #2
  ➢ Evaluation Results

• Recommendations
Background

- To reduce on-road mobile source emissions (est. 1991)
  - Governed by California Health and Safety Code (HSC)
- $4 motor vehicle registration surcharge fee:
  - 60% awarded directly by the Air District through the Regional Fund program and to Air District sponsored program and projects (e.g., Spare the Air)
  - 40% of funds distributed to the 9 Bay Area Congestion Management Agencies (County Program Manager Fund)
- Each year the Air District’s Board of Directors adopts policies and evaluation criteria for TFCA
Background
FYE 2015 Cycle

• Air District’s Board of Directors:
  - Allocated up to $4 million for FYE 2015 Projects, 5/21/14
  - Adopted policies and evaluation criteria, 6/4/14

• Call for Projects: 6/21/14 – 8/11/14

• Grant application workshops held in San Francisco and via online webinar, 7/2/14 & 7/14/14

• 14 Applications Received (12 Shuttle, 2 Ridesharing) as of 10/6/14
FYE 2015 Policies and Evaluation Criteria

• Shuttle/feeder bus projects:
  - Provide direct connection between mass transit hub and distinct commercial or employment area
  - May not replace or duplicate existing local transit service; however, projects funded in FYE 2014 exempt from this requirement (until December 31, 2016)
  - TFCA funds only pay for commuter peak-hour service

• Ridesharing projects:
  - Comprised of riders from a minimum of 5 Bay Area counties
  - No single county may account for more than 80% of riders
Recommended Change to Policy #2

• Staff proposes an increase in the cost-effectiveness limit (Policy #2) to $175,000/ton for:
  - Existing Shuttle Projects
  - Year 2 Pilot Shuttle Projects
  - Year 3 Pilot Shuttle Projects in CARE areas and PDAs.

• Change is recommended for the following reasons:
  - Adjust for CARB’s revisions to emission factors
  - Minimize impact to existing projects while the program is undergoing review
9 projects (2 rideshare and 7 shuttle) recommended for award (at $175k C/E limit):

- 8 projects eligible for full award amount ($2,704,978)
  - 2 ridesharing projects ($1,140,000)
  - 6 shuttle projects = 35 shuttle routes ($1,564,978)
- 1 shuttle project eligible for reduced award amount ($992,528) = 21 routes at full and 3 routes at partial award amounts
- 68% of funds to CARE areas and/or PDAs ($2,532,234)
- Estimated reductions:
  - 87 tons of criteria pollutants, and
  - 47,810 tons of CO₂
## FYE 2015 Projects
### Recommended for Award

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Sponsor</th>
<th>Proposed Project Title</th>
<th>Total Project Cost</th>
<th>Total TFCA Funds Requested</th>
<th>Est. C/E (Funds Requested)</th>
<th>Recommended Award Amount (at $175k limit)</th>
<th>ROG (tons)</th>
<th>NOX (tons)</th>
<th>PM10 (tons)</th>
<th>CO2 (tons)</th>
<th>Award Amount (at $125k limit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15R05</td>
<td>MTC</td>
<td>Regional Rideshare Program</td>
<td>$ 3,548,006</td>
<td>$ 1,000,000</td>
<td>$ 16,776</td>
<td>$ 1,000,000</td>
<td>19.55</td>
<td>20.61</td>
<td>18.20</td>
<td>31,461</td>
<td>$ 1,000,000</td>
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<tr>
<td>15R06</td>
<td>Associated Students, SJSU</td>
<td>SJSU Ridesharing &amp; Trip Reduction</td>
<td>$ 164,707</td>
<td>$ 140,000</td>
<td>$ 70,858</td>
<td>$ 140,000</td>
<td>0.66</td>
<td>0.64</td>
<td>0.54</td>
<td>938</td>
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</table>

### Shuttle Projects

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<tr>
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<tbody>
<tr>
<td>15R07</td>
<td>San Joaquin Regional Rail Commission</td>
<td>ACE Shuttles (2 Routes)</td>
<td>$ 310,230</td>
<td>$ 183,500</td>
<td>$ 145,646</td>
<td>$ 183,500</td>
<td>0.44</td>
<td>0.36</td>
<td>0.39</td>
<td>679</td>
<td>$ 157,482</td>
</tr>
<tr>
<td>15R09</td>
<td>SFMTA</td>
<td>82X Levi Express Shuttle</td>
<td>$ 774,584</td>
<td>$ 61,213</td>
<td>$ 33,501</td>
<td>$ 61,213</td>
<td>0.71</td>
<td>0.47</td>
<td>0.64</td>
<td>1,111</td>
<td>$ 61,213</td>
</tr>
<tr>
<td>15R11</td>
<td>City of Oakland</td>
<td>Broadway Shuttle</td>
<td>$ 370,314</td>
<td>$ 229,173</td>
<td>$ 154,678</td>
<td>$ 229,173</td>
<td>0.55</td>
<td>0.40</td>
<td>0.44</td>
<td>736</td>
<td>$ 185,200</td>
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<td>15R12</td>
<td>Santa Clara Valley Transportation Authority</td>
<td>ACE Shuttle Bus Program (8 Routes)</td>
<td>$ 1,361,835</td>
<td>$ 960,000</td>
<td>$ 84,186</td>
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<td>15R13</td>
<td>Peninsula Corridor Joint Powers Board</td>
<td>Caltrain Shuttle Program (24 Routes)</td>
<td>$ 3,082,325</td>
<td>$ 1,000,000</td>
<td>$ 82,385</td>
<td>$ 992,528</td>
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<td>3.35</td>
<td>3.74</td>
<td>6,314</td>
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<tr>
<td>15R16*</td>
<td>County of Alameda</td>
<td>Embarcadero Cove Pilot Shuttle</td>
<td>$ 62,325</td>
<td>$ 56,092</td>
<td>$ 252,863</td>
<td>$ 56,092</td>
<td>0.08</td>
<td>0.08</td>
<td>0.07</td>
<td>110</td>
<td>$ 56,092</td>
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<tr>
<td>15R17</td>
<td>Presidio Trust</td>
<td>PresidioGO Shuttle</td>
<td>$ 450,478</td>
<td>$ 75,000</td>
<td>$ 75,829</td>
<td>$ 75,000</td>
<td>0.32</td>
<td>0.33</td>
<td>0.29</td>
<td>430</td>
<td>$ 75,000</td>
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* Pilot Project in CARE Area

### Total

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<td>0.29</td>
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</tr>
</tbody>
</table>

| Total     |                |                        | $10,124,805       | $ 3,704,978                 | $ 3,697,506                  | 29.74                                   | 30.13     | 27.85     | 47,810      | $ 3,559,667          |

TFCA Shuttle and Ridesharing Program
FYE 2015 Projects Summary
Awards per County

- Alameda: $725,683 (20%)
- Contra Costa: $126,418 (3%)
- Marin: $42,498 (1%)
- Napa: $22,358 (1%)
- Solano: $83,338 (2%)
- Sonoma: $42,778 (1%)
- San Francisco: $243,191 (7%)
- San Mateo: $1,070,626 (29%)
- Santa Clara: $1,340,618 (36%)
### FYE 2015 Projects Not Recommended for Award

5 projects (7 shuttle routes) not recommended for award:

- Duplicates existing transit service
- Not cost-effective at any dollar amount
- Incomplete application as of 10/6/14

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Sponsor</th>
<th>Proposed Project Title</th>
<th>Total Project Cost</th>
<th>Total TFCA Funds requested</th>
<th>Est. C/E</th>
<th>Reason</th>
<th>ROG (tons)</th>
<th>NOX (tons)</th>
<th>PM10 (tons)</th>
<th>CO2 (tons)</th>
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</thead>
<tbody>
<tr>
<td>15R08</td>
<td>City of Alameda</td>
<td>Estuary Crossing Shuttle</td>
<td>$ 441,640</td>
<td>$ 100,000</td>
<td>$ 4,727,640</td>
<td>Not C/E, Duplicates service</td>
<td>0.03</td>
<td>-0.06</td>
<td>0.05</td>
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<td>15R10</td>
<td>SFMTA</td>
<td>UCSF Mission Bay Shuttle</td>
<td>$ 1,275,817</td>
<td>$ 230,000</td>
<td>$ 99,746</td>
<td>Duplicates service</td>
<td>0.89</td>
<td>0.61</td>
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<td>15R13*</td>
<td>Peninsula Corridor Joint Powers Board</td>
<td>Caltrain Shuttle Program (1 route)</td>
<td>$ 97,340</td>
<td>$ 8,500</td>
<td>$(75,119)</td>
<td>Not C/E at any amount</td>
<td>0.02</td>
<td>-0.09</td>
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<td>15R14</td>
<td>Alameda-Contra Costa Transit District</td>
<td>Union City BART Pilot Shuttle</td>
<td>$ 415,000</td>
<td>$ 373,500</td>
<td>$ 2,281,523</td>
<td>Not C/E, Duplicates service</td>
<td>0.06</td>
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<td>15R15</td>
<td>City of Richmond</td>
<td>Commuter Shuttle</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Application Incomplete</td>
<td>TBD</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>15R15**</td>
<td>City of Richmond</td>
<td>Commuter Shuttle (2 Routes)</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Application Incomplete</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The other 24 routes for Project #15R13 proposed by the Peninsula Corridor Joint Powers Board are recommended for full or partial award

** New Application; supercedes previous application of the same name
Request the Committee recommend the Board of Directors:

1. Approve a change to FYE 2015 TFCA Regional Fund Policy #2 to increase the cost-effectiveness limit to $175,000/ton of emissions reduced for existing shuttle projects, year 2 pilot shuttle projects, and year 3 pilot shuttle projects in CARE areas or PDAs;

2. Approve proposed awards for the TFCA Shuttle and Ridesharing projects listed in Attachment A at the revised cost-effectiveness limit of $175,000/ton of emissions reduced; and

3. Authorize the Executive Officer/APCO to enter into agreements for the recommended TFCA projects in Attachment A.