Charge! Program

Mobile Source and Climate Impacts Committee Meeting
May 26, 2022

Ada Truong
Staff Specialist, Technology Implementation Office
atruong@baaqmd.gov
Presentation Outcome

• Provide an update on electric vehicle (EV) charging infrastructure in the region.

• Provide an update on the 2022 Charge! Program and new recommended projects.

• Request Committee approval to forward the recommended projects to the full Board of Directors for approval.
Presentation Outline

- Bay Area EV charging network
- Charge! Program Overview
  - Fiscal Year Ending (FYE) 2022 solicitation
  - Scoring process
  - Project recommendations
- Other light-duty EV infrastructure programs in the region
- Recommendations
Committee to consider recommending the Board of Directors:

1. Approve the *Charge!* Program rank list and recommended projects with proposed grant awards as shown in Attachment 1; and

2. Authorize the Interim Executive Officer/APCO to enter into all necessary agreements with applicants for recommended projects.
BAY AREA

ELECTRIC VEHICLE TRENDS AND GOALS

11,917 public charging ports currently

In 2021, 5% of the Bay Area fleet were EVs, with a goal of 90% by 2050

30,000 public charging ports needed (NREL)

In 2022 16.3% of new sales in CA were EVs

Public charging ports

16% DC Fast

83% Level 2

1% Level 1

Progress towards our EV Adoption Goals

2015: 71,672

2022: 383,348

2030: 1.5 million

2050: ~5 million
Existing Bay Area EV Infrastructure

- According to the Department of Energy, there are approximately 11,917 publicly available charging ports across the Bay Area.
  - 17 Level 1 ports
  - 9,967 Level 2 ports
  - 1,933 DC Fast ports
- The California Energy Commission (CEC) reported that there were a total of 266,890 EVs registered and operating on Bay Area roads at the end of 2021.
  - 67% battery electric vehicles
  - 32% plug-in hybrid vehicles
  - 1% fuel cell electric vehicles
• Total EV charging ports as of April 2022: ~11,917

  • Source: U.S. Department of Energy’s Alternative Fuels Data Center
Since 2016, the Charge! Program has provided grant funding for publicly accessible EV charging in the Bay Area.

Open to public agencies and private businesses.

Charging location types:
- Destination
- Multi-family buildings
- Transit parking
- Transportation corridors
- Workplace
• $7M available for the FYE2022 Charge! Program solicitation.
  • Projects that meet all eligibility requirements may be funded with either Mobile Source Incentive Funds, Transportation Fund for Clean Air, Community Air Protection Program, Carl Moyer Program, or other funding sources.

• Solicitation period: December 7, 2021 to March 1, 2022.
• Solicitation priorities:
  • Affordable and below market-rate housing
  • Environmental justice communities
  • Multi-family buildings
  • Regions with low EV charger density

• Competitive/ranked solicitation
  • For the FYE2022 solicitation, there are a total of 11 applications requesting ~$3.3M in funding.
  • With additional funding remaining, we are considering 3 applications that were eligible for funding in the FYE2021 solicitation.
Application Scoring

- Scoring panel consisted of two staff members from the Technology Implementation Office.

<table>
<thead>
<tr>
<th>Evaluation criteria</th>
<th>Point Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project details &amp; implementation plan</td>
<td>25</td>
</tr>
<tr>
<td>Project benefits</td>
<td>25</td>
</tr>
<tr>
<td>Priorities</td>
<td>10</td>
</tr>
<tr>
<td>Readiness</td>
<td>15</td>
</tr>
<tr>
<td>Qualifications</td>
<td>10</td>
</tr>
<tr>
<td>Budget</td>
<td>10</td>
</tr>
<tr>
<td>Application completeness</td>
<td>5</td>
</tr>
<tr>
<td>Total Points Possible</td>
<td>100</td>
</tr>
</tbody>
</table>
## FYE2022 Program Rank List

<table>
<thead>
<tr>
<th>Rank</th>
<th>Applicant</th>
<th>Score</th>
<th>Proposed Grant Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The Shores at Marina Bay Community Association</td>
<td>92.00</td>
<td>$48,000.00</td>
</tr>
<tr>
<td>2</td>
<td>45th Street Artists Cooperative</td>
<td>87.00</td>
<td>$28,000.00</td>
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<tr>
<td>3</td>
<td>EV Charging Solutions, Inc</td>
<td>86.50</td>
<td>$320,000.00</td>
</tr>
<tr>
<td>4</td>
<td>Casa Del Valle Condominiums</td>
<td>85.75</td>
<td>$16,000.00</td>
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<tr>
<td>5</td>
<td>Clocktower Lofts Homeowners Association</td>
<td>82.75</td>
<td>$60,000.00</td>
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<td>6</td>
<td>EVgo Services LLC</td>
<td>82.63</td>
<td>$1,040,000.00</td>
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<td>7</td>
<td>City of Calistoga</td>
<td>82.25</td>
<td>$11,000.00</td>
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<tr>
<td>8</td>
<td>ChargePoint</td>
<td>80.25</td>
<td>$1,498,000.00</td>
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<tr>
<td>9</td>
<td>Union Sanitary District</td>
<td>78.00</td>
<td>$103,000.00</td>
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<tr>
<td>10</td>
<td>City of Belmont</td>
<td>77.75</td>
<td>$24,000.00</td>
</tr>
<tr>
<td>11</td>
<td>Blink Network LLC</td>
<td>77.50</td>
<td>$112,000.00</td>
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## FYE2022 Program Rank List (cont.)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Applicant</th>
<th>Score</th>
<th>Proposed Grant Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>EVgo Services LLC*</td>
<td>86.01</td>
<td>$1,470,000.00</td>
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<tr>
<td>13</td>
<td>PowerFlex Systems, Inc.*</td>
<td>85.84</td>
<td>$3,000,000.00</td>
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<td>14</td>
<td>University Terrace Berkeley Homeowners</td>
<td>81.51</td>
<td>$53,086.00</td>
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<tr>
<td></td>
<td>Association*</td>
<td></td>
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</tbody>
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*Eligible FYE2021 Charge! Program projects

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*Eligible FYE2021 Charge! Program projects
There are 14 eligible projects requesting $7,783,086 to install 1,292 charging ports at 77 facilities.

Fund projects in the rank list order based on funding eligibility and availability.

**Charging Port Types**
- Level 2: 1,084
- DC Fast: 208

**Facility Types**
- Destination: 7
- Multi-family buildings: 21
- Transportation Corridor: 33
- Workplace: 16
Other Incentives for EV Charging

• In the Bay Area, there are several incentive and rebate programs from Community Choice Aggregators, public agencies, utilities, and other organizations to expand EV charging access, including:

  • CEC/CALeVIP
  • Electrify America
  • Marin Clean Energy
  • PG&E
  • Silicon Valley Power
  • Sonoma Clean Power
  • Volkswagen Environmental Mitigation Trust
Requested Action

Committee to consider recommending to the Board of Directors:

1. Approve the Charge! Program rank list and recommended projects with proposed grant awards as shown in Attachment 1; and

2. Authorize the Interim Executive Officer/APCO to enter into all necessary agreements with applicants for the recommended projects.
Projects and Contracts with Proposed Awards over $500,000

Mobile Source and Climate Impacts Committee Meeting
May 26, 2022

Adam Shapiro, Acting Air Quality Manager
Strategic Incentives Division
ashapiro@baaqmd.gov
Action item for the Committee to consider recommending the Board of Directors:

1. Approve recommended projects with proposed grant awards over $500,000 as shown in Attachment 1; and

2. Authorize the Interim Executive Officer/APCO to enter into all necessary agreements with applicants for the recommended projects.
Presentation Outline

• Background

• Proposed projects with awards over $500,000

• Status of incentive funding
  o Revenue sources
  o Community benefits & project locations

• Recommendations
**CMP/MSIF, CAPP, and FARMER**

<table>
<thead>
<tr>
<th>Carl Moyer Program (CMP)</th>
<th>Funding Agricultural Replacement Measures for Emission Reductions (FARMER)</th>
<th>Community Air Protection Program (CAPP)</th>
<th>Mobile Source Incentive Fund (MSIF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Air Resources Board</td>
<td>$34 million</td>
<td></td>
<td>DMV Fees</td>
</tr>
</tbody>
</table>
Transportation Fund for Clean Air (TFCA)

- Statutory authority set forth in California Health and Safety Code Sections 44241 and 44242
- Funding provided by a $4 surcharge on motor vehicles

Regional Fund & Air District-Sponsored

County Program Manager Fund
Recommend $1,050,300 in awards for one project replacing:

- 10 diesel agricultural tractors

Emissions Reductions

- Over 3.8 tons per year of criteria pollutants
Incentive Funding Awarded & Recommended Since July 2021 by Revenue Source (in $millions)

<table>
<thead>
<tr>
<th>Source</th>
<th>Awarded</th>
<th>Recommended</th>
<th>Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMP / MSIF / CAPP / FARMER</td>
<td>$33.0</td>
<td>$13.3</td>
<td>$46.3</td>
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<tr>
<td>TFCA</td>
<td>$13.1</td>
<td>$16.3</td>
<td>$29.4</td>
</tr>
</tbody>
</table>

Updated as of 3/30/2022

Mobile Source and Climate Impacts Committee
May 26, 2022
Funds Awarded & Recommended Since July 2021 by Project Category (in Millions)

<table>
<thead>
<tr>
<th>Category</th>
<th>Awarded (in Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light-duty Infrastructure and Cars</td>
<td>$7.4</td>
</tr>
<tr>
<td>Trucks &amp; Buses</td>
<td>$4.6</td>
</tr>
<tr>
<td>School Buses</td>
<td>$18.9</td>
</tr>
<tr>
<td>Off-road Equipment</td>
<td>$5.1</td>
</tr>
<tr>
<td>Marine &amp; Rail</td>
<td>$7.4</td>
</tr>
<tr>
<td>Trip Reduction</td>
<td>$2.5</td>
</tr>
</tbody>
</table>

Total = $44M

List of projects is shown in Attachments 2 & 3

Updated as of 3/30/3022
Funds Awarded & Recommended Since July 2021 (in Millions)

$44M total awarded*
* includes ~$2M in regional grants not attributed to counties

> 85% to CARE areas, disadvantaged and low-income communities, and low-income residents

Legend
- Disadvantaged and/or Low-Income Community
- CARE Area

Updated as of 3/30/2022
Actions Requested

Committee to consider recommending the Board of Directors:

1. Approve recommended projects with proposed grant awards over $500,000 as shown in Attachment 1; and

2. Authorize the Interim Executive Officer/APCO to enter into all necessary agreements with applicants for the recommended projects.
Updates to the Vehicle Buy Back Program

Mobile Source and Climate Impacts Committee Meeting
May 26, 2022

Minda Berbeco, PhD
Manager, Strategic Incentives Division
mberbeco@baaqmd.gov
Action item for the Committee to consider recommending the Board of Directors:

1. Approve the allocation of up to an additional $5.8 million in incentive revenue from Mobile Source Incentive Fund and/or Transportation Fund for Clean Air monies to cover the cost of increased program participation; and

2. Authorize the Interim Executive Officer/APCO to execute amendments that increase the contract amounts in Fiscal Year Endings (FYE) 2023 and 2024:
   a) With vehicle dismantlers Environmental Engineering Services and Pick-n-Pull by an additional $5 million annually; and
   b) With Direct Mail Services by an additional $800,000 annually.
Presentation Outline

• Background on the Vehicle Buy Back Program (VBB)
• Planned changes to program
• Recommendations
• Program was launched in 1996 and since 2008, scrapped over 55,000 vehicles.

• Currently the program pays Bay Area registered car owners $1,200 to early retire 1997 and older cars.
Approved contractor vendors:

• Direct Mail Services: Notify potential participants in advance of their Smog Check through direct mail.

• Dismantlers: Check eligibility requirements, scrap eligible vehicles, and are paid up to $100 for each car accepted.
Number of Cars Early Retired Through the VBB Program by Year

![Graph showing number of cars participating in the Vehicle Buy Back Program by year, with bars for different model years and amounts paid to car owners. The graph includes notes for program pauses and model year changes.]
Decline in Participation

• Economic factors:
  • Cost inflation for used and new vehicles
  • Owners retaining their cars for a longer duration during the pandemic.

• To address decline, 2021 TV and radio media campaign in both Spanish and English.
Inventory of Vehicles

• A reduction of the availability of 1997 and older cars.

Inventory of registered Bay Area cars by Model Year
Ideas for Expanding Program Participation

- Increase model year to 1998
- Additional outreach
- Advocating for updates to Carl Moyer Chapter 8 policy
Actions Requested

**Action item** for the Committee to consider recommending the Board of Directors:

1. Approve the allocation of up to an additional $5.8 million in incentive revenue from Mobile Source Incentive Fund and/or Transportation Fund for Clean Air monies to cover the cost of increased program participation; and

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