

# *Charge!* Program

Fiscal Year Ending (FYE) 2015  
Transportation Fund for Clean Air (TFCA)

JUNE 11, 2015



Linda Hui, Analyst

Michael Neward, Analyst

Bay Area Air Quality Management District (BAAQMD)



# Overview



- Introduction to BAAQMD
- Bay Area Plug-in Electric Vehicle (PEV) Deployment Goals
- *Charge!* Guidance & Program Requirements
- Questions and Comments



# Introduction to the Bay Area Air Quality Management District



- Established in 1955
- 9 Counties
- 5,340 square miles
- 7 million population

**Mission:** To protect and improve public health, air quality, and the global climate



# Bay Area Air Quality: Opportunity

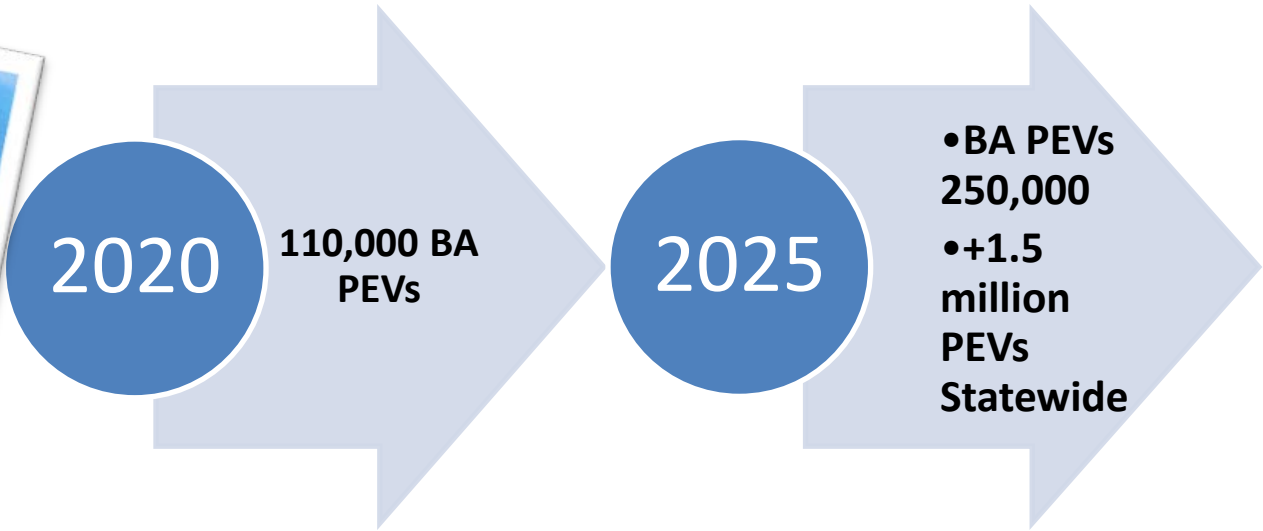


- In the Bay Area, emissions from its 5.7 million vehicles account for:
  - 40% of Criteria Air Pollution
  - 36% of GHG Inventory
- Electric vehicle technology is key to reducing emissions from motor vehicles

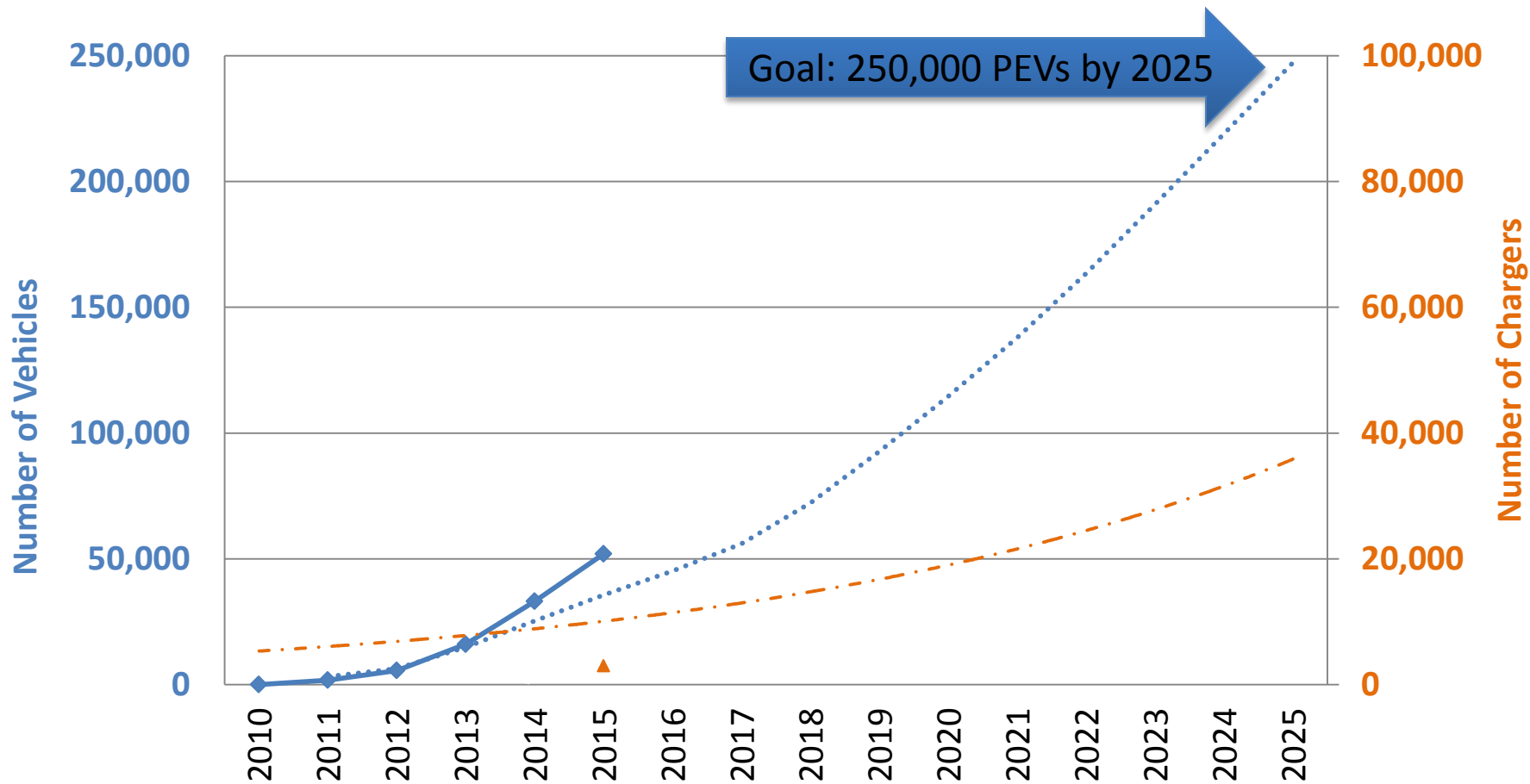




# Bay Area and State PEV Goals

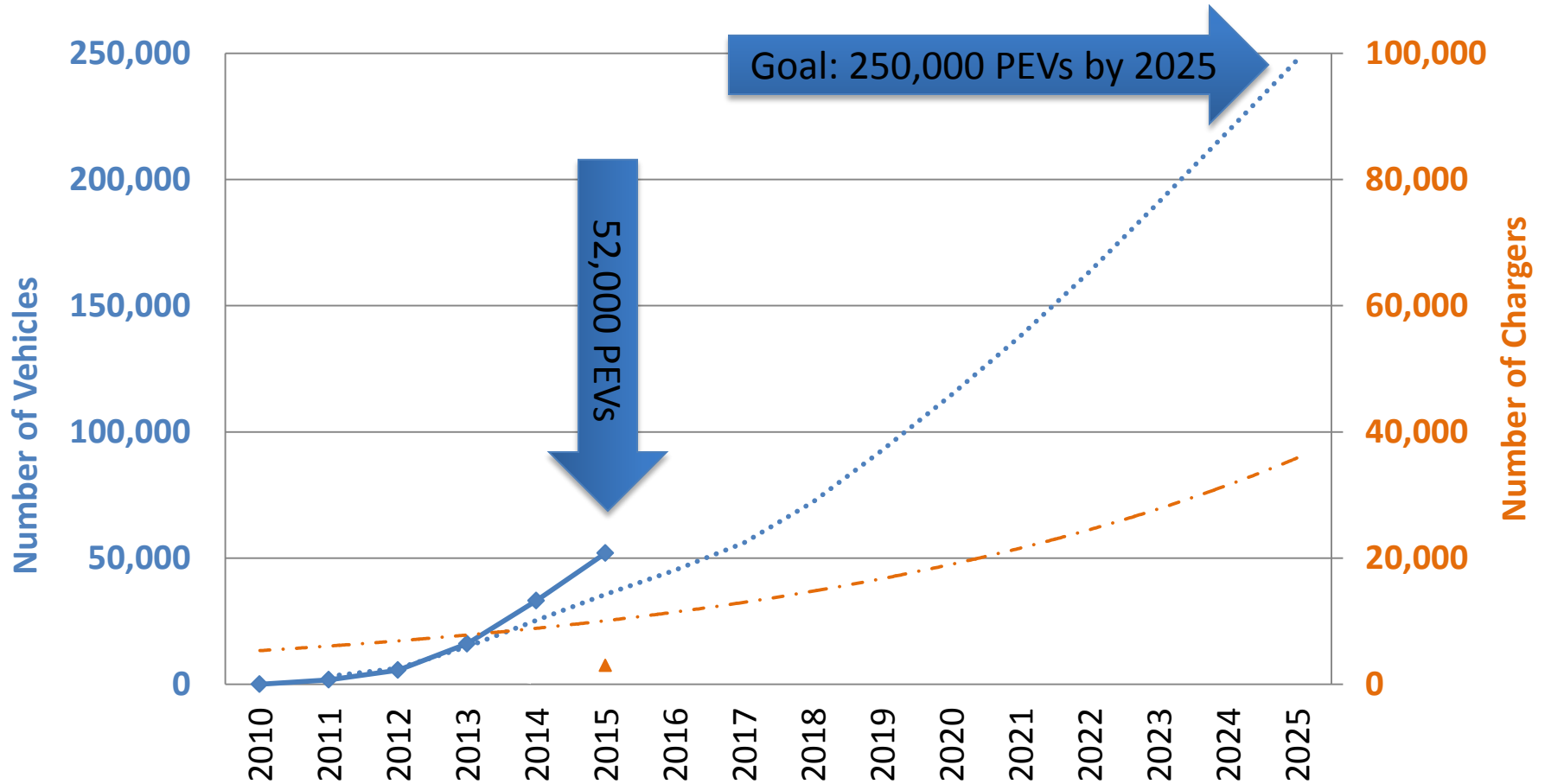


# Bay Area: Current Status & Goals



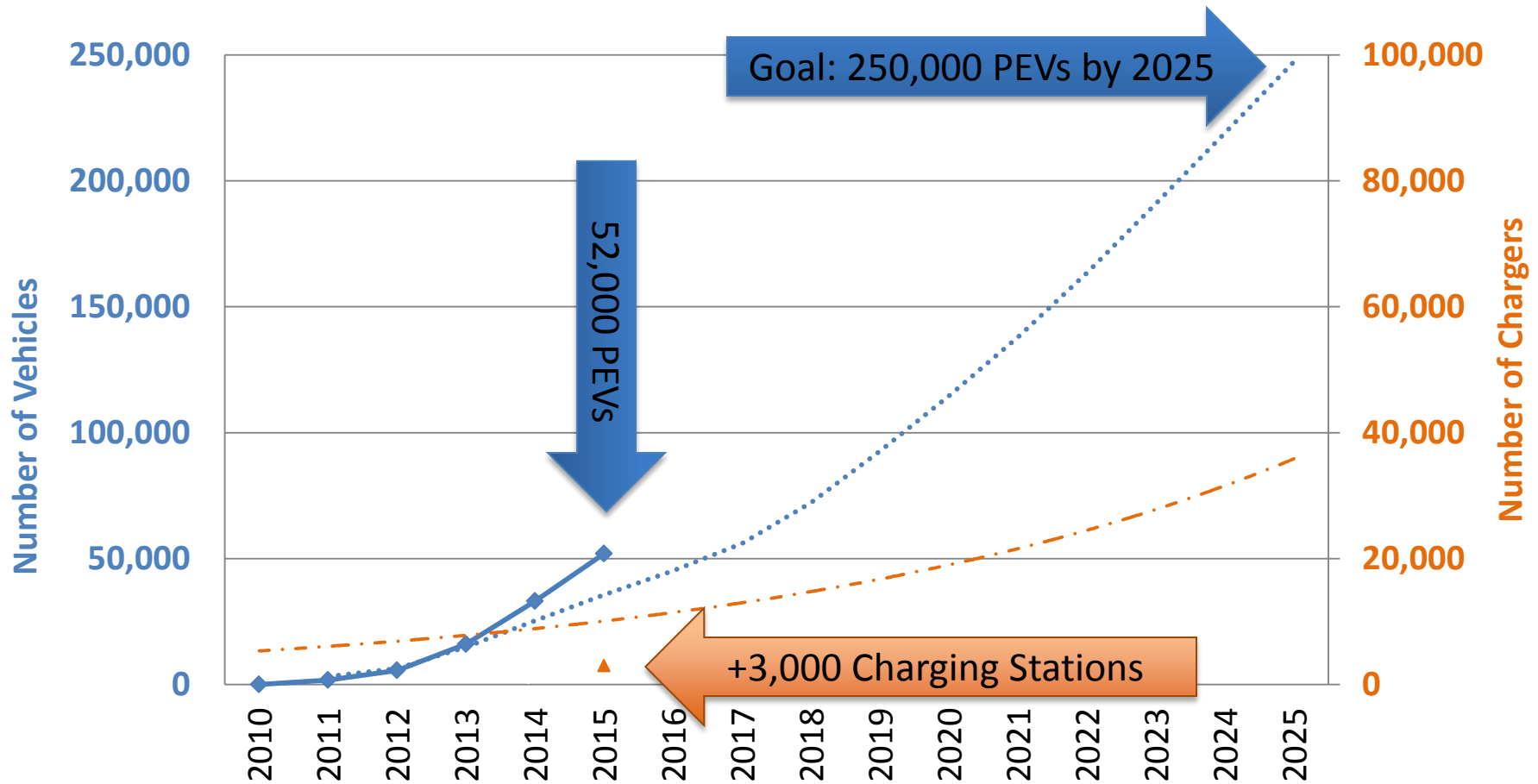
Data from the 9 counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma  
Source: [Bay Area PEV Readiness Plan](#) & [California Vehicle Rebate Program](#)

# Bay Area: Current Status & Goals



Data from the 9 counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma  
Source: [Bay Area PEV Readiness Plan](#) & [California Vehicle Rebate Program](#)

# Bay Area: Current Status & Goals



Data from the 9 counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma  
Source: [Bay Area PEV Readiness Plan](#) & [California Vehicle Rebate Program](#)





# Charge! Program



## Transportation Corridor



DC Fast  
(Low kW DC fast and Level 2 may be installed with DC Fast)

## Workplace



DC Fast,  
Low kW DC fast,  
Level 2, Level 1, or  
any combo

## Multi-Dwelling Unit



DC Fast,  
Low kW DC fast,  
Level 2, Level 1, or  
any combo

## Destination



DC Fast,  
Low kW DC fast,  
Level 2, Level 1, or  
any combo

# Charge! Program Overview



- **TFCA Funding Source:** \$4 surcharge on motor vehicles for projects that reduce on-road vehicle emissions
- **Funding Availability:** \$5 Million
- **Eligible Applicants:** Public & non-public entities
- **May 27, 2015:** *Charge!* Program accepting applications on a first-come, first-served basis
- **December 18, 2015:** Solicitation closes (unless funds are exhausted sooner)



# Charge! Program

## Key Program Requirements



- **Minimum Grant (#6):** \$10,000 per completed project
- **Maximum Grant (#7):** \$250,000 (for Level 1, Level 2, low kW DC fast), \$600,000 for DC fast
- Payments are made on a **reimbursement basis** and are limited to 75% of Eligible Project Costs (on a **per charger basis**)
- Usage requirements are evaluated on a **per project basis**

Charger Type	Maximum Award per Charger	Total Usage Requirement***
DC Fast Charge	\$25,000	75,000 kWh
Low kW DC Fast Charge*	\$5,000	15,000 kWh
Level 2*	\$3,000	9,000 kWh
Level 1**	\$500	1,500 kWh

- Projects with **grid demand offset** are eligible for additional funding
- Case-by-case evaluations: *Proposed projects that **do not** meet charger type requirements*

\* Low kW DC Fast Chargers and Level 2 Chargers at Transportation Corridor sites are eligible for funding only when installed in conjunction with DC Fast Chargers.

\*\* Level 1 Chargers installed at Transportation Corridor Charging sites are not eligible for funding.

\*\*\* The usage requirement will be evaluated on a per project basis across all funded chargers.



# Charge! Program

## Key Program Requirements (cont'd)



- Surplus emissions reduction
- Within the boundaries of the Air District's jurisdiction
- Have open communication protocol
- Install in a well-lit, secure area

Charge! Program Application Guidance	
CHARGE! PROGRAM REQUIREMENTS	
<b>BASIC ELIGIBILITY</b>	
1.	<b>Eligible Projects:</b> Only projects that result in the surplus reduction of motor vehicle emissions that are beyond what is required by regulations, contracts, and other obligations at the time the Air District executes the project's funding agreement within the Air District's jurisdiction ( <a href="http://baaqmd.gov/The-Air-District/Jurisdiction.asp">http://baaqmd.gov/The-Air-District/Jurisdiction.asp</a> ). Projects must conform to the provisions of the California Health and Safety Code and the Charge! Program Requirements.
2.	<b>TFCA Cost-Effectiveness:</b> Projects must not exceed the maximum cost per (\$/weighted ton) limit based on the ratio of TFCA funds awarded divided by the amount of emissions reduced of reactive organic gases (ROG), nitrogen oxides (NOx), and particulate matter 10 microns in diameter and smaller over a project's life.
3.	<b>Eligible Recipients:</b> Both public agencies and non-public entities.
4.	<b>Authority to Apply and Implement Project:</b> Applicants must have the authority to submit the application, to enter into a funding agreement, and to bind the applicant entity to perform all of the work associated with the project or right or authorization to apply for and obtain necessary electric utility service for the charging station until the usage requirements are met and funding is provided.
5.	<b>Viable Project and Matching Funds:</b> This program provides funding on a cost-share basis. Therefore, applicants must demonstrate that they have the financial resources to cover all stages of their proposed project throughout its life. In addition, applicants must demonstrate that they have committed all necessary matching funds from a non-Air District source to cover all stages of their proposed project throughout its life.
6.	<b>Minimum Grant Amount:</b> \$10,000 per application (the right to terminate the funding agreement and cancel the grant at any time if any of the following circumstances occur). The final amount that is eligible for reimbursement will be determined 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 occur:
7.	<b>Maximum Grant Amount:</b> <ul style="list-style-type: none"> <li>• \$250,000 per applicant for projects that are funded by the Air District.</li> <li>• For applicants who proposed projects with a maximum grant amount increased to \$600,000 per applicant, the \$250,000 limit may only be used for projects that are funded by the Air District.</li> </ul> The Air District reserves the right to increase or decrease the maximum grant amount at any time.
8.	<b>Readiness:</b> Project sponsors must meet the following requirements: <ul style="list-style-type: none"> <li>• Within 6 months from the date of the award, project sponsors must submit evidence that significant CEQA, completed CEQA, purchased</li> </ul>

Charge! Program Application Guidance	
9.	<b>Project Revisions:</b> The Air District will consider only requests for minor modifications, contracts, and other legally-binding obligations that are in compliance with all applicable Federal and State laws, and District agreements or to change the name of the grantees, without re-evaluating the project. The Air District may also approve minor modifications, such as to correct typographical errors, to the extent that they do not affect the project's scope or funding. A failed fiscal audit means an incorrect or other information that is not in accordance with the requirements of the Charge! Program Requirements.
10.	<b>In Compliance with Air Quality Regulations:</b> Applicants must certify that, at the time of issuance of the grant, they are in compliance with all applicable federal air quality regulations. Applicants who have an unresolved violation of local air quality rules or regulations are not eligible for funding. The Air District may require applicants to seek reimbursement of distributed funds from project sponsors who are in violation of local air quality rules or regulations.
11.	<b>Good Faith Application:</b> Applications will be evaluated and recommendations for award 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 occur: <ul style="list-style-type: none"> <li>• The application contains false or intentionally misleading statements or references which support an attribute or condition contended by the applicant.</li> <li>• 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 the application.</li> <li>• 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.</li> </ul>
12.	<b>Executed Funding Agreement:</b> 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 the award of funds for a project is contingent upon the execution of the funding agreement.
13.	<b>Maintain Insurance:</b> Project sponsors must sign fire and theft insurance for the project for the duration of the project. The insurance must include the basis for an extension of up to no more than 90 days.
14.	<b>Independent Air District Audit Findings and Determinations:</b> Project sponsors shall require their subcontractors to submit to an independent audit firm for a performance audit for a prior Air District fiscal year in accordance with HSC section 44242. Additionally, project sponsors shall require their subcontractors to submit to an independent audit firm for a performance audit for a prior Air District fiscal year in accordance with HSC section 44242. Additionally, project sponsors shall require their subcontractors to submit to an independent audit firm for a performance audit for a prior Air District fiscal year in accordance with HSC section 44242.
15.	<b>Project's Life, with coverage being no less than the amounts specified in the agreement (see Appendix A).</b> Project sponsors shall require their subcontractors to submit to an independent audit firm for a performance audit for a prior Air District fiscal year in accordance with HSC section 44242. Additionally, project sponsors shall require their subcontractors to submit to an independent audit firm for a performance audit for a prior Air District fiscal year in accordance with HSC section 44242.

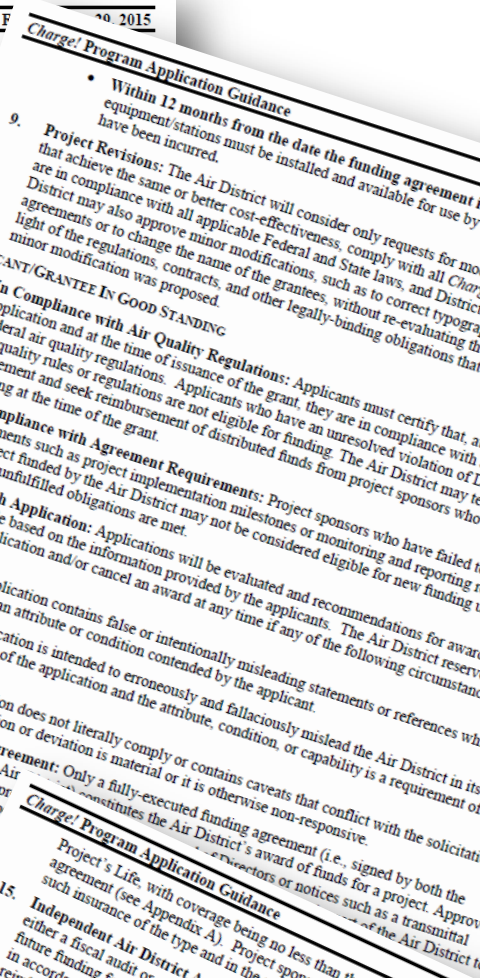
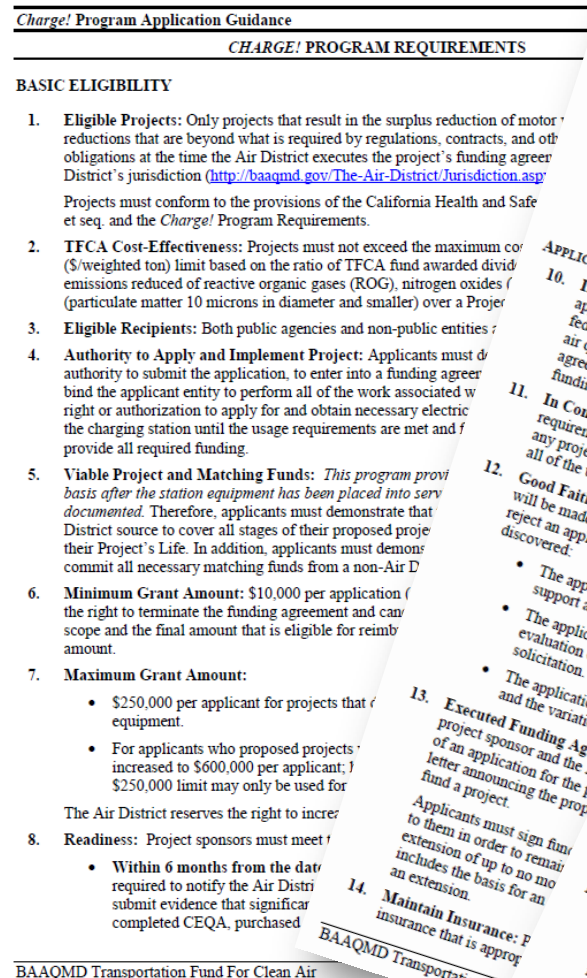


# Charge! Program

## Key Program Requirements (cont'd)



- Legal authority to submit application & ability to complete the project
- Operate and maintain charging station to **achieve minimum usage** requirements & a **minimum of 3 years** of service
- Stations are available for public use for **90 percent of the days during each calendar year.**
- Allow Air District (authorized representative) to **inspect equipment** and to **audit program records.**





# Charge! Program Site Considerations



- Trip hazards/Cord Management
- Weather/Elements
- Indoor/Outdoor Ratings
- Vandalism
- Americans with Disabilities Act (ADA)
- Security
- Signage





# Charge! Program

## Milestones, Payment, & Reporting



Time Period	Activity
After Contract Execution (Implementation Phase)	<u>Project Sponsor</u> submits Semi-Annual Report(s) Projects must start within 180 days
Within 12 months of award (Installation Completed)	<u>Project Sponsor</u> <ul style="list-style-type: none"><li>• ALL project stations are installed and available for use by the public (awarded funds must be expended)</li><li>• Submits 1<sup>st</sup> invoice</li><li>• Submits <b>Interim Status Report</b></li></ul> <u>Air District</u> <ul style="list-style-type: none"><li>• Makes payment on a reimbursement basis and retains 15%</li></ul>
Every 12 months following the submittal of the Interim Status Report (Operations Phase)	<u>Project Sponsor</u> <ul style="list-style-type: none"><li>• Submits <i>any</i> subsequent invoices</li><li>• Submits <b>Annual Reports</b> until the minimum usage requirement is met and for a minimum of 3 years</li></ul>
After submission of last Annual Report (Project Completed)	<u>Air District</u> releases 15% retention

# Charge! Program

## How to Apply?



- Submit complete application package: **one (1) online application** and **one (1) signed hard copy**, to the Air District, with the following documents:
  - Evidence of Authority to Apply & Implement the Project
  - Map showing each location and location of equipment
  - Copy of estimate for installation at each facility (must be from a licensed contractor)
  - Proof of authority to install & operate station
  - Proof of insurance
  - W-9 (only hardcopy; do not upload)

A screenshot of the 'FYE 2015 Charge! Program Application Form' from the Bay Area Air Quality Management District. The form includes sections for 'PART 1. APPLICANT INFORMATION' (with fields for Legal Name, D.B.A., and Project Title), 'APPLICANT'S ADDRESS' (with fields for Legal Address, Street Address Line 2, City, State, and Zip), and 'CONTACT INFORMATION' (with fields for Name of Project Contact and Project Contact Position/Title). It also contains instructions and a disclaimer about the use of the form.





# Charge! Program

## How to Apply? (cont'd)



Applicant  
(Project)



Facility A

Facility Type:

Corridor

Destination ✓

MDU

Workplace

Charging station 1

Charging station 2

Charging Station 3



Facility B

Facility Type:

Corridor

Destination

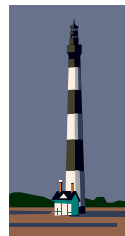
MDU

Workplace ✓

Charging station 1

Charging station 2 (dual)

Charging Station 3



Facility C

Facility Type:

Corridor

Destination ✓

MDU

Workplace

Charging station 1

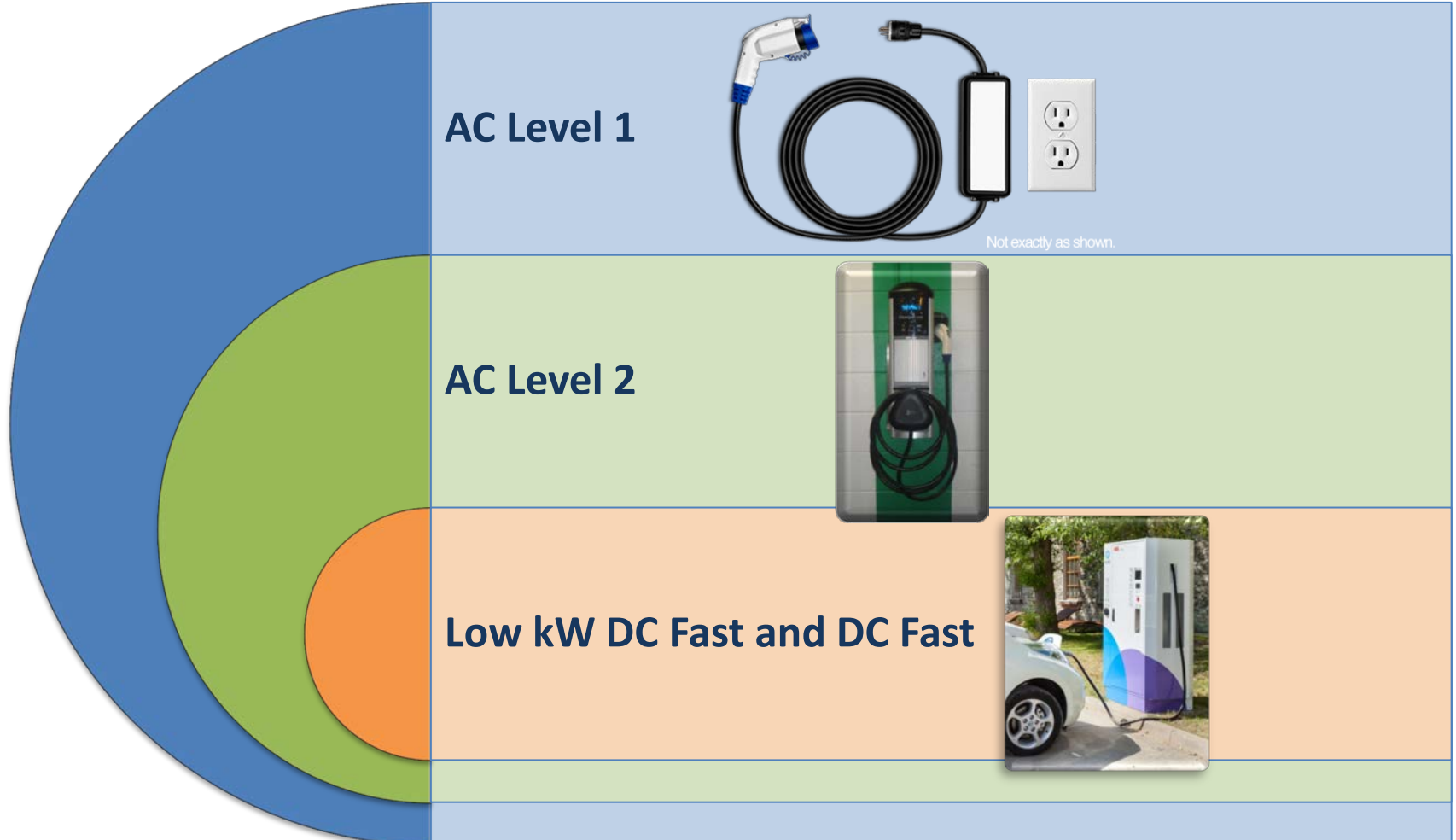
Charging station 2 (dual)

Charging Station 3



# Charge! Program

## How to Apply? (cont'd)



Images: [www.pluginamerica.org](http://www.pluginamerica.org) & [leviton.com](http://leviton.com)



# Charge! Program

## How to Apply? (cont'd)



### B. CHARGER INFORMATION

#### Total Eligible Cost

Provide a budget below for this facility broken out by charger type. The Air District will determine your *match % requirement* based on cost information provided in this application.

Charger Type <sup>?</sup>	Quantity <sup>?</sup>	Grid Demand Offset? <sup>?</sup>	Total Eligible Cost (\$) <sup>?</sup>	Request per Charger (\$) <sup>?</sup>	
DC Fast ▼	1	No ▼	80000	25000	
Level 2 ▼	10	No ▼	50000	2000	<a href="#">Remove</a>

[Add another charger type](#)

#### Discounts, Credits, & Non-Air District Grants/Rebates

Provide a list of ALL discounts, credits, and non-Air District grants/rebates by source and charger type. If these funds are derived from more than a single source, specify each funding source and the amount on a separate line. *Air District will subtract these funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information about how award amount is determined.*

Source	Amount (\$)	Funding Status	Charger Type	
Equipment Rebate	1000	Planned ▼	Level 2 ▼	
Department of Energy (DOE) Grant	10000	Secured ▼	Level 2 ▼	<a href="#">Remove</a>

[Add another source](#)

Air District determines match requirement (%) based on budget



# Charge! Program

## How to Apply? (cont'd)



### Eligible Cost

Eligible Cost \_\_\_\_\_  
Set below for this facility broken out by charger type. The Air District will determine your *match %* based on cost information provided in this application.

Charger Type	Quantity	Grid Demand Offset?	Total Eligible Cost (\$)	Request per Charger (\$)	
Level 1	1	No	80000	25000	
Level 2	10	No	50000	2000	<a href="#">Remove</a>

[Add another charger type](#)

### Discounts, Credits, & Non-Air District Grants/Rebates

Enter ALL discounts, credits, and non-Air District grants/rebates by source and charger type. If these funds are from more than a single source, specify each funding source and the amount on a separate line. *Air District will subtract these funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information on how award amount is determined.*

Source	Amount (\$)	Funding Status	Charger Type	
Rebate	1000	Planned	Level 2	
Department of Energy (DOE) Grant	10000	Secured	Level 2	<a href="#">Remove</a>

[Add another source](#)

### DC Fast

Total Eligible Cost \$ 80,000  
 Incentives -\$ 0  
**Incurred Cost \$80,000**

Air District determines **match requirement (%)** based on budget



# Charge! Program

## How to Apply? (cont'd)



### INFORMATION

...e Cost \_\_\_\_\_  
...et below for this facility broken out by charger type. The Air District will determine your *match %*  
...ased on cost information provided in this application.

Charger Type	Quantity	Grid Demand Offset?	Total Eligible Cost (\$)	Request per Charger (\$)	
Level 1	1	No	80000	25000	
Level 2	10	No	50000	2000	<a href="#">Remove</a>

[Add another charger type](#)

...redits, & Non-Air District Grants/Rebates \_\_\_\_\_  
...f ALL discounts, credits, and non-Air District grants/rebates by source and charger type. If these funds are  
...more than a single source, specify each funding source and the amount on a separate line. *Air District will*  
...e funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information  
...ard amount is determined.

Rebate	Amount (\$)	Funding Status	Charger Type	
Rebate	1000	Planned	Level 2	
Department of Energy (DOE) Grant	10000	Secured	Level 2	<a href="#">Remove</a>

[Add another source](#)

### DC Fast

Total Eligible Cost	\$ 80,000
Incentives	<del>-\$</del> 0
<b>Incurred Cost</b>	<b>\$80,000</b>
Grant Award	<del>-\$</del> 25,000
Match	\$ 55,000

Air District determines **match requirement (%)** based on budget



# Charge! Program

## How to Apply? (cont'd)



### INFORMATION

Cost  
et below for this facility broken out by charger type. The Air District will determine your *match %*  
based on cost information provided in this application.

Quantity	Grid Demand Offset?	Total Eligible Cost (\$)	Request per Charger (\$)
1	No	80000	25000
10	No	50000	2000

[Add another charger type](#)

redits, & Non-Air District Grants/Rebates  
f ALL discounts, credits, and non-Air District grants/rebates by source and charger type. If these funds are  
more than a single source, specify each funding source and the amount on a separate line. *Air District will*  
*e funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information*  
*ard amount is determined.*

Amount (\$)	Funding Status	Charger Type
1000	Planned	Level 2
10000	Secured	Level 2

[Add another source](#)

### DC Fast

Total Eligible Cost	\$ 80,000
Incentives	<del>-\$</del> 0
<b>Incurred Cost</b>	<b>\$80,000</b>
Grant Award	<del>-\$</del> 25,000
Match	\$ 55,000

Match = **68.75%**  
\$55,000/\$80,000

Air District determines **match requirement (%)** based on budget



# Charge! Program

## How to Apply? (cont'd)



### Eligible Cost

Eligible Cost \_\_\_\_\_  
Set below for this facility broken out by charger type. The Air District will determine your *match %* based on cost information provided in this application.

Charger Type	Quantity	Grid Demand Offset?	Total Eligible Cost (\$)	Request per Charger (\$)	
Level 1	1	No	80000	25000	
Level 2	10	No	50000	2000	<a href="#">Remove</a>

[Add another charger type](#)

### Rebates, Credits, & Non-Air District Grants/Rebates

Enter ALL discounts, credits, and non-Air District grants/rebates by source and charger type. If these funds are from more than a single source, specify each funding source and the amount on a separate line. *Air District will subtract these funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information on how award amount is determined.*

Source	Amount (\$)	Funding Status	Charger Type	
Equip. Rebate	1000	Planned	Level 2	
DOE Grant	10000	Secured	Level 2	<a href="#">Remove</a>

[Add another source](#)

## Level 2

Total Eligible Cost	\$ 50,000
Equip. Rebate	-\$ 1,000
DOE Grant	-\$ 10,000
<b>Incurred Cost</b>	<b>\$ 39,000</b>

Air District determines match requirement (%) based on budget



# Charge! Program

## How to Apply? (cont'd)



### INFORMATION

Eligible Cost  
Set below for this facility broken out by charger type. The Air District will determine your *match %* based on cost information provided in this application.

Charger Type	Quantity	Grid Demand Offset?	Total Eligible Cost (\$)	Request per Charger (\$)	
Level 1	1	No	80000	25000	
Level 2	10	No	50000	2000	<a href="#">Remove</a>

[Add another charger type](#)

Credits, & Non-Air District Grants/Rebates  
List ALL discounts, credits, and non-Air District grants/rebates by source and charger type. If these funds are from more than a single source, specify each funding source and the amount on a separate line. *Air District will use the funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information on how award amount is determined.*

Source	Amount (\$)	Funding Status	Charger Type	
Equip. Rebate	1000	Planned	Level 2	
DOE Grant	10000	Secured	Level 2	<a href="#">Remove</a>

[Add another source](#)

### Level 2

Total Eligible Cost	\$ 50,000
Equip. Rebate	-\$ 1,000
DOE Grant	-\$ 10,000
<b>Incurred Cost</b>	<b>\$ 39,000</b>
Grant Award	-\$ 20,000
Match	\$19,000

Air District determines match requirement (%) based on budget





# Charge! Program

## How to Apply? (cont'd)



### INFORMATION

Eligible Cost  
Set below for this facility broken out by charger type. The Air District will determine your *match %* based on cost information provided in this application.

Charger Type	Quantity	Grid Demand Offset?	Total Eligible Cost (\$)	Request per Charger (\$)	
Level 1	1	No	80000	25000	
Level 2	10	No	50000	2000	<a href="#">Remove</a>

[Add another charger type](#)

Rebates, Credits, & Non-Air District Grants/Rebates  
List ALL discounts, credits, and non-Air District grants/rebates by source and charger type. If these funds are from more than a single source, specify each funding source and the amount on a separate line. *Air District will use the funds from your Eligible Cost to determine award amount. Refer to the FAQ for more information on how the award amount is determined.*

Source	Amount (\$)	Funding Status	Charger Type	
Equip. Rebate	1000	Planned	Level 2	
DOE Grant	10000	Secured	Level 2	<a href="#">Remove</a>

[Add another source](#)

### Level 2

Total Eligible Cost	\$ 50,000
Equip. Rebate	-\$ 1,000
DOE Grant	-\$ 10,000
<b>Incurred Cost</b>	<b>\$ 39,000</b>
Grant Award	-\$ 20,000
Match	\$19,000

Match = **48.717%**  
\$19,000/\$39,000

Air District determines **match requirement (%)** based on budget



# Charge! Program

## Example of Project with Grid Demand Offset



Charger Type	Maximum Award per Charger	Total Usage Requirement
Level 2	\$3,000	9,000 kWh

- Total Usage Requirement accounts for **3 years of project operation**
- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
- Award Plus-ups:
  - **OPTION 1:** 50% plus-up per charger  
1/3 of usage requirement generated by solar
  - **OPTION 2:** 100 % plus-up per charger  
1/3 of usage requirement generated by solar, with battery storage

[Self Generation Incentive Program](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/): [www.cpuc.ca.gov/PUC/energy/DistGen/sgip/](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/)



# Charge! Program

## Example of Project with Grid Demand Offset



Charger Type	Maximum Award per Charger	Total Usage Requirement
Level 2	\$3,000	9,000 kWh

- Total Usage Requirement accounts for **3 years of project operation**
- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
- Award Plus-ups:
  - **OPTION 1:** 50% plus-up per charger  
1/3 of usage requirement generated by solar

**9,000 kWh**

- **OPTION 2:** 100 % plus-up per charger  
1/3 of usage requirement generated by solar, with battery storage

[Self Generation Incentive Program](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/): [www.cpuc.ca.gov/PUC/energy/DistGen/sgip/](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/)



# Charge! Program

## Example of Project with Grid Demand Offset



Charger Type	Maximum Award per Charger	Total Usage Requirement
Level 2	\$3,000	9,000 kWh

- Total Usage Requirement accounts for **3 years of project operation**
- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
- Award Plus-ups:
  - **OPTION 1:** 50% plus-up per charger  
○ **1/3** of usage requirement generated by solar

( 9,000 kWh x 1/3 ) =

- **OPTION 2:** 100 % plus-up per charger  
1/3 of usage requirement generated by solar, with battery storage

[Self Generation Incentive Program](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/): [www.cpuc.ca.gov/PUC/energy/DistGen/sgip/](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/)



# Charge! Program

## Example of Project with Grid Demand Offset



Charger Type	Maximum Award per Charger	Total Usage Requirement
Level 2	\$3,000	9,000 kWh

- Total Usage Requirement accounts for **3 years of project operation**
- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
- Award Plus-ups:

- **OPTION 1:** 50% plus-up per charger

**1/3** of usage requirement generated by solar

<b>3,000 kWh</b>	<b>1,000 kWh</b>	<b>2.73 kWh</b>	<b>\$4,500</b>
( <b>9,000 kWh x 1/3</b> ) = On-site power generation	= On-site power generation Per Year	= On-site power generation Per Day	<b>Max. Award per Charger</b>

- **OPTION 2:** 100 % plus-up per charger

1/3 of usage requirement generated by solar, with battery storage

[Self Generation Incentive Program](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/): [www.cpuc.ca.gov/PUC/energy/DistGen/sgip/](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/)



# Charge! Program

## Example of Project with Grid Demand Offset



Charger Type	Maximum Award per Charger	Total Usage Requirement
Level 2	\$3,000	9,000 kWh

- Total Usage Requirement accounts for **3 years of project operation**
- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
- Award Plus-ups:

- **OPTION 1:** 50% plus-up per charger

**1/3** of usage requirement generated by solar

<b>3,000 kWh</b>	<b>1,000 kWh</b>	<b>2.73 kWh</b>	<b>\$4,500</b>
( <b>9,000 kWh x 1/3</b> ) = On-site power generation	= On-site power generation Per Year	= On-site power generation Per Day	<b>Max. Award per Charger</b>

- **OPTION 2:** 100 % plus-up per charger

1/3 of usage requirement generated by solar, with battery storage

**9,000 kWh**

[Self Generation Incentive Program](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/): [www.cpuc.ca.gov/PUC/energy/DistGen/sgip/](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/)



# Charge! Program

## Example of Project with Grid Demand Offset



Charger Type	Maximum Award per Charger	Total Usage Requirement
Level 2	\$3,000	9,000 kWh

- Total Usage Requirement accounts for **3 years of project operation**
- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
- Award Plus-ups:

- **OPTION 1:** 50% plus-up per charger

**1/3** of usage requirement generated by solar

<b>3,000 kWh</b>	<b>1,000 kWh</b>	<b>2.73 kWh</b>	<b>\$4,500</b>
( 9,000 kWh x 1/3 ) = On-site power generation	= On-site power generation Per Year	= On-site power generation Per Day	<b>Max. Award per Charger</b>

- **OPTION 2:** 100 % plus-up per charger

**1/3** of usage requirement generated by solar, with battery storage

( 9,000 kWh x 1/3 ) =

[Self Generation Incentive Program](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/): [www.cpuc.ca.gov/PUC/energy/DistGen/sgip/](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/)



# Charge! Program

## Example of Project with Grid Demand Offset



Charger Type	Maximum Award per Charger	Total Usage Requirement
Level 2	\$3,000	9,000 kWh

- Total Usage Requirement accounts for **3 years of project operation**
- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
- Award Plus-ups:

- **OPTION 1:** 50% plus-up per charger

**1/3** of usage requirement generated by solar

<b>3,000 kWh</b>	<b>1,000 kWh</b>	<b>2.73 kWh</b>	<b>\$4,500</b>
( 9,000 kWh x 1/3 ) = On-site power generation	= On-site power generation Per Year	= On-site power generation Per Day	<b>Max. Award per Charger</b>

- **OPTION 2:** 100 % plus-up per charger

**1/3** of usage requirement generated by solar, with battery storage

<b>2.73 kWh</b>	<b>2.73 kW</b>	<b>\$6,000</b>
( 9,000 kWh x 1/3 ) = On-site power generation Per Day	+ On-site power Battery Storage	<b>Max. Award per Charger</b>

[Self Generation Incentive Program](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/): [www.cpuc.ca.gov/PUC/energy/DistGen/sgip/](http://www.cpuc.ca.gov/PUC/energy/DistGen/sgip/)





# Charge! Program



Example of Reduced Award based on Final Eligible Project Costs

After installation is complete and equipment is placed into service.

	Qty	Eligible Project Costs (from Application)	Usage Requirement	Grant Award	Installed	Final Eligible Project Costs	Payable Amount
DC Fast	1	\$50,000 (50% match)	75,000 kWh	\$25,000	1 ✓	\$50,000	\$25,000
Level 2	1	\$5,000 (40% match)	9,000 kWh	\$3,000	1 ✓	\$4,000	\$2,400
Total			84,000 kWh	\$28,000			\$27,400

- Met the number of chargers installed
- Capped final award at 60% of Eligible Project Costs not to exceed \$4,000 per charger. ( $\$4,000 \times 0.6 = \$2,400$ )
- **Total payable is \$27,400**
- **Air District Payment is \$23,290** (85% Payable Amount) Air District retained \$4,110 (15% Payable Amount)



# Charge! Program

## Example of Reduced Award based on Final Usage

After 3 years of operations.

	Qty	Eligible Project Costs (from Application)	Usage Requirement	Payable Amount	Installed	Final Usage	Final Payment
DC Fast	1	\$50,000 (50% match)	75,000 kWh	\$25,000	1	80,000 kWh	
Level 2	1	\$5,000 (40% match)	9,000 kWh	\$2,400	1	2,000 kWh	
Total			84,000 kWh	\$27,400		82,000 kWh	\$27,400 \$26,748

- Did not meet the usage requirements
- Option to operate for up to 2 years more or proportionally reduced final payment
- Air District releases \$3,458 of retention amount (\$4,110)  
[\$26,748 (Payable Amount) - \$23,290 (Payment #1) = \$3,458]



# Air District Funding For PEVs



## Vehicles



### For Public Agencies (lower usage):

- Light-duty PEVs
- Neighborhood electric vehicles
- Electric motorcycles

### Zero-emissions vehicles (*Coming Soon!*):

- High mileage light-duty vehicles (3 or more)
- Heavy-duty vehicles and buses

## Infrastructure



### Charge!

- For PEV chargers installed at:
  - Workplaces
  - Multifamily dwelling units
  - Publicly accessible destinations
  - Transportation corridors



# Additional Funding for PEVs



## **Air Resources Board**

- Cap & Trade
- Clean Vehicle Rebate Project (CRVP)
- California Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)

## **California Energy Commission**

- Infrastructure
- Planning
- Renewable Energy

## **Other**

- Federal (DOE)
- Metropolitan Transportation Commission
- California Public Utilities
- Reformulated Gas Settlement



# Questions



- Website: [www.baaqmd.gov/Charge](http://www.baaqmd.gov/Charge)
- Attend a webinar
  - Future webinars (announced via email & website)
- Submit questions in writing
  - (Subject "RE: Charge! Program") to Chengfeng Wang at [cwang@baaqmd.gov](mailto:cwang@baaqmd.gov)
  - Responses will be posted on FAQ
- Sign up for email alerts:  
<http://www.surveymonkey.com/s/6MRPHLD> to receive program updates