#### 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

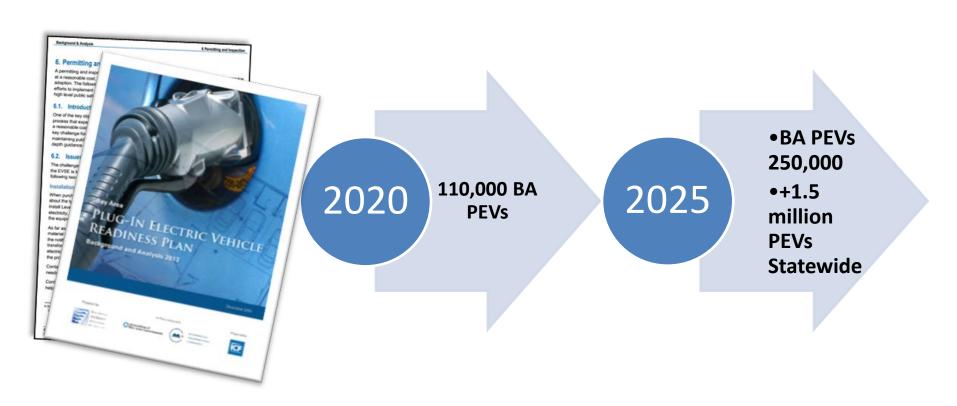


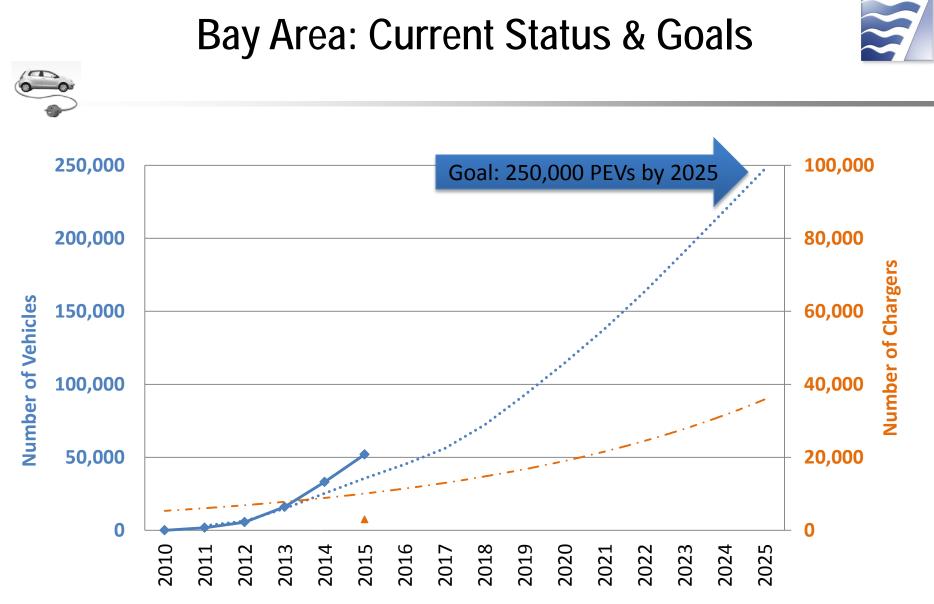
- In the Bay Area, emissions from its 5.7 million vehicles account for:
  - 40% of Criteria Air
     Pollution
  - 36% of GHG Inventory
- Electric vehicle technology is key to reducing emissions from motor vehicles





### Bay Area and State PEV Goals

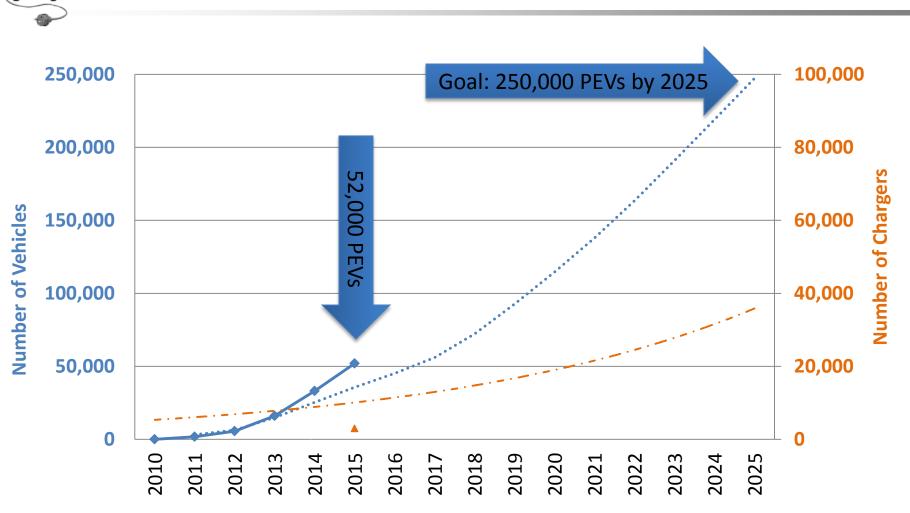




Data from the 9 counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma Source: <u>Bay Area PEV Readiness Plan & California Vehicle Rebate Program</u>



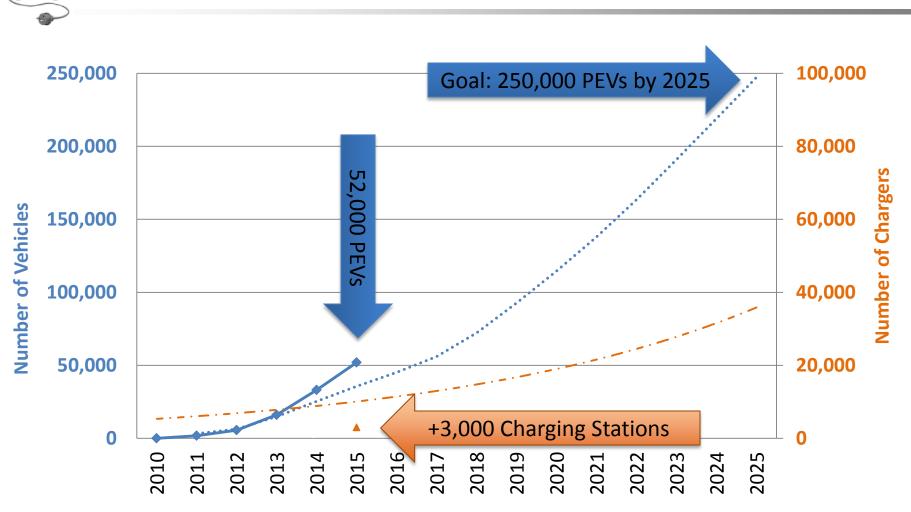
#### Bay Area: Current Status & Goals



Data from the 9 counties: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma Source: <u>Bay Area PEV Readiness Plan & California Vehicle Rebate Program</u>



#### Bay Area: Current Status & Goals



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

DC Fast, Low kW DC fast, Level 2, Level 1, <u>or</u> any combo DC Fast, Low kW DC fast, Level 2, Level 1, <u>or</u> any combo DC Fast, Low kW DC fast, Level 2, Level 1, <u>or</u> 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 <u>first-come, first-served basis</u>
- 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 <u>reimbursement basis</u> and are limited to 75% of Eligible Project Costs (on a <u>per charger basis</u>)
- 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* <u>*do not*</u> *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)



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#### 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 10. 2015 CHARGE! PROGRAM REQUIREMENTS ogram Application Guidar Within 12 months from the date the funding agreement BASIC ELIGIBILITY Within L2 months from the date the hunding agreement of equipment/staticors must be installed and available for use by have been incorrect. Project Revisions: The Air District will consider only requests for mo that achieve the same or better cost-effectiveness, comply with all Cha 1. 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- Readiness: Project sponsors must meet t
  - Within 6 months from the date required to notify the Air Distri submit evidence that significar BAAQMD Transportation Fur completed CEQA, purchased

BAAQMD Transportation Fund For Clean Air

### Charge! Program Key Program Requirements (cont'd)



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- 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 Application Guidance CHARGE! PROGRAM REQUIREMENTS

#### BASIC ELIGIBILITY

- 1. Eligible Projects: Only projects that result in the surplus reduction of motor reductions that are beyond what is required by regulations, contracts, and oth obligations at the time the Air District executes the project's funding agreer District's jurisdiction (http://baaqmd.gov/The-Air-District/Jurisdiction.asp
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  - Within 6 months from the date required to notify the Air Distri 14 submit evidence that significar BAAQMD Transportation Fur completed CEQA, purchased

BAAQMD Transportation Fund For Clean Air

# *Charge!* Program Site Considerations



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



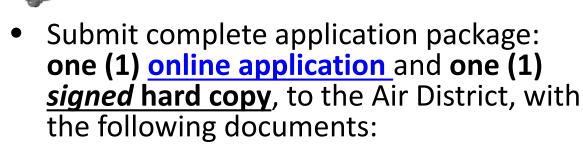
### *Charge!* Program Milestones, Payment, & Reporting



Time Period	Activity
After Contract Execution (Implementation Phase)	Project Sponsor submits Semi-Annual Report(s) Projects must start within 180 days
Within 12 months of award (Installation Completed)	<ul> <li>Project Sponsor</li> <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 Interim Status Report</li> <li>Air District</li> <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)	<ul> <li>Project Sponsor</li> <li>Submits <i>any</i> subsequent invoices</li> <li>Submits Annual Reports until the minimum usage requirement is met and for a minimum of 3 years</li> </ul>
After submission of last Annual Report (Project Completed)	Air District releases 15% retention
PAAOMD Application Workshop	15

### Charge! Program How to Apply?

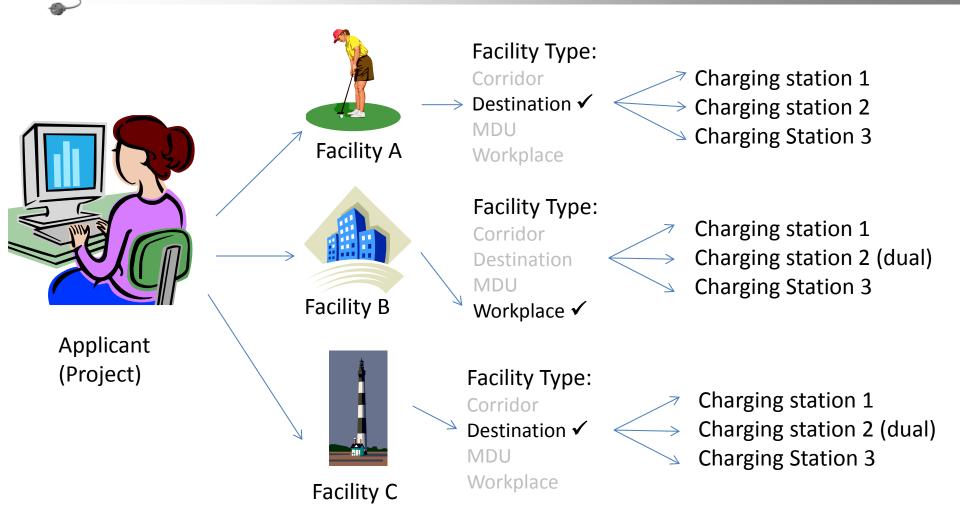


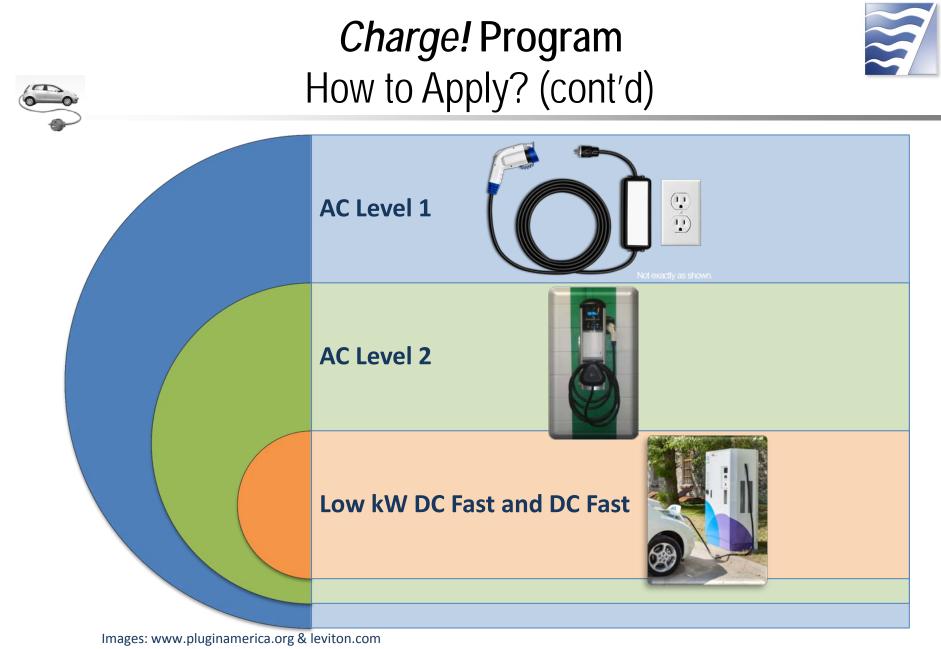


- Evidence of Authority to Apply & Implement the Project
- Map showing each location and location of equipment
- Copy of estimate for installation at each facility (must be from a licensed contractor)
- Proof of authority to install & operate station
- Proof of insurance
- W-9 (only hardcopy; do not upload)

	FYE 2015 Charge! Program A	pplication Form
BAY AREA	6	e
Air Quality		Save my progress and resume later   Resume a previous
MANAGEMENT		a travious
DISTRICT		
Application packages must be		as a hard copy (one copy). Grant applications will be acc onhausted souner. Only complete applications will be
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<ul> <li>Total Eligible Cost</li> <li>Provide a budget below</li> <li>requirement based on</li> </ul>	/ for this facility brok			determine your <i>match %</i>	
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#### Air District determines match requirement (%) based on budget



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



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Air District determines match requirement (%) based on budget

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			Add anoth	<u>er charger type</u>		Incurred Cost	\$ 39,000
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of Energy (DOE) Grant	10000	Secured •	Level 2	▼ <u>Remove</u>
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#### Air District determines match requirement (%) based on budget



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Rebate

of Energy (DOE) Grant

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	cility broken out by charger t nation provided in this applica		l determine your <i>match %</i>		<u>Level 2</u>	
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Level 2

Level 2

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Remove

Add another source

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

Planned

Secured

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of Energy (DOE) Grant

INFORMATION						
e Cost — et below for this facility b ased on cost information p			determine your <i>match %</i>		<u>Level 2</u>	
▼ 1 N ▼ 10 N redits, & Non-Air Dist f ALL discounts, credits, an ore than a single source, s	nd non-Air District grants specify each funding sour Cost to determine awa	rebates by source an ce and the amount on	Request per Charger (S) 25000 2000 Add another ch d charger type. If these fur a separate line. Air District the FAQ for more information Charger Type	nds are ct will	Total Eligible Cos Equip. Rebate DOE Grant Incurred Cost Grant Award Match Match	-\$ 1,000 <u>-\$ 10,000</u> <b>\$ 39,000</b> <u>-\$ 20,000</u> \$19,000
Rebate	1000	Planned •			\$19.000/\$	39.000

Remove

Add another source

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

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Level 2

Secured

10000



Example of Project with Grid Demand Offset



- 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

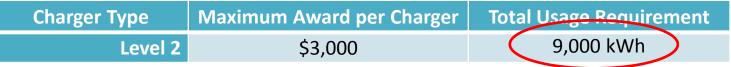
• **OPTION 2:** 100 % plus-up per charger

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



Example of Project with Grid Demand Offset





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- Available incentives (*i.e. energy rebates*) are **applied to total eligible cost**
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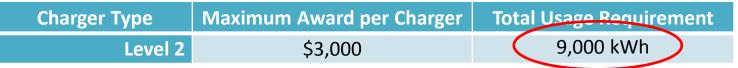
#### 9,000 kWh

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

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



Example of Project with Grid Demand Offset



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( 9,000 kWh x 1/3) =

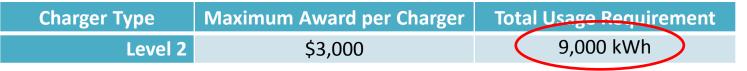
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Example of Project with Grid Demand Offset



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3,000 kWh1,000 kWh2.73 kWh\$4,500( 9,000 kWh x 1/3) = On-site power = On-site power generationOn-site power generation = On-site power generationMax. AwardgenerationPer YearPer Dayper Charger

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

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







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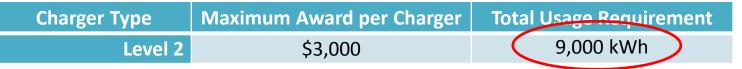
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#### 9,000 kWh





Example of Project with Grid Demand Offset



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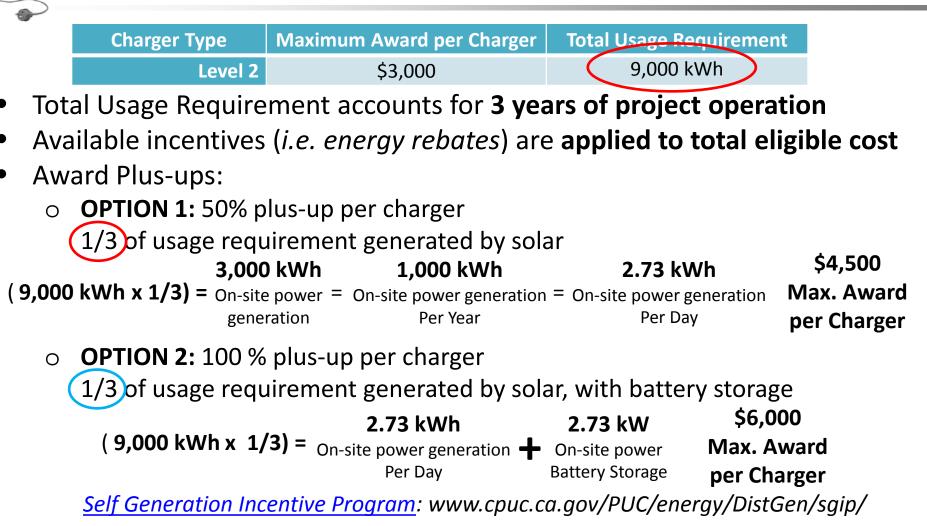
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1/3 of usage requirement generated by solar, with battery storage

(9,000 kWh x 1/3) =



Example of Project with Grid Demand Offset





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 x 0.6 = \$2,400)
- Total payable is \$27,400
- Air District Payment is <u>\$23,290</u> (85% Payable Amount) Air District retained \$4,110 (15% Payable Amount)





#### 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	<b>\$</b> \$27,400 \$26,748

- Did not meet the usage requirements
- Option to operate for up to 2 years more <u>or</u> 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: <u>www.baaqmd.gov/Charge</u>
- Attend a webinar
  - Future webinars (announced via email & website)
- Submit questions in writing
  - (Subject "RE: Charge! Program") to Chengfeng Wang at <u>cwang@baaqmd.gov</u>
  - Responses will be posted on FAQ
- Sign up for email alerts: <u>http://www.surveymonkey.com/s/6MRPHLD</u> to receive program updates