

## DOCKETED

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<b>Project Title:</b>	Block Grant for Electric Vehicle Charger Incentive Projects
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# Alternative and Renewable Fuel and Vehicle Technology Program

## Block Grant for EV Incentive Projects

### FresYES Incentive Project Workshop

Brian Fauble

September 28, 2017



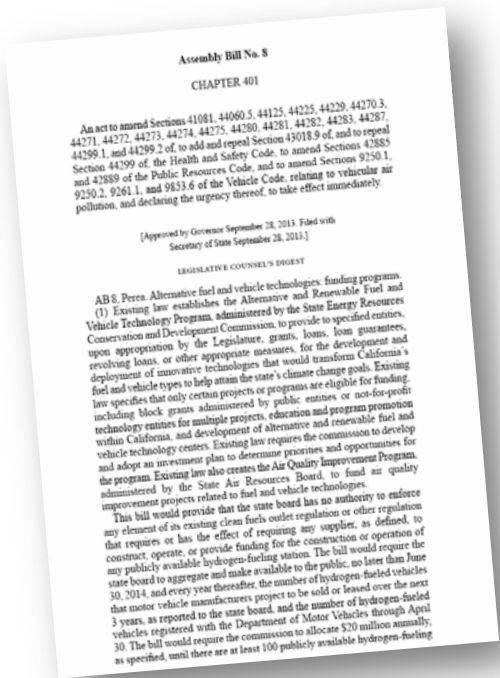
# AGENDA

- Welcome
- Incentive Project Overview
  - Eligibility and Requirements (CEC)
  - Application Process and Website (CSE)
- ChargeUp! Program (SJVAPCD)
- Questions and Comments
- Adjourn



# Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP)

- AB 8 (*Perea, Chapter 401, Statutes of 2013*) extends ARFVTP through January 1, 2024.
- Receives up to \$100 million per year to:
  - ✓ Transform California's transportation market into a diverse collection of alternative fuels and technologies and reduce California's dependence on petroleum.
  - ✓ Develop and deploy innovative technologies that transform California's fuel and vehicle types to help attain the state's climate change policies.





## ARFVTP's Commitment to Diversity

The Energy Commission adopted a resolution on April 8, 2015, to firmly commit to:

- Increase participation of women, minority, disabled veteran and LGBT business enterprises in program funding opportunities
- Increase outreach and participation by disadvantaged communities
- Increase diversity in participation at Energy Commission proceedings
- Increase diversity in employment and promotional opportunities



## Commitment to Diversity

**Fairness** – Increase funding accessibility to all Californians.

**Inclusion** – Small businesses make up a significant portion of the U.S. economy.

**Job Creation** – Projects can create jobs for residents of the under-served communities.

**Diversity of Ideas** – Great ideas occur in a variety of areas.

**Diversity in Communities' Needs** – Needs vary widely from one area to the next (air quality, socioeconomic, etc.).



# Projects to Date

**Table 1: Charging Outlets Funded by ARFVTP as of March 2017**

	Private Installations		Publicly Accessible Installations				Total
	Single-Family Residential	Private Fleet	Multiunit Dwelling	Commercial	Workplace	DCFC	
<b>Installed</b>	3,936	107	327	2,570	263	94	7,297
<b>Planned (under construction)</b>	0	0	18	741	161	461	1,381
<b>Subtotal</b>	<b>3,936</b>	<b>107</b>	<b>345</b>	<b>3,311</b>	<b>424</b>	<b>555</b>	<b>8,678</b>
<b>Private/Public Subtotal</b>	<b>4,043</b>		<b>4,635</b>				<b>8,678</b>



## Block Grant Project Background

- Released solicitation November 2016
- Awarded recipient CSE February 17, 2017
- Agreement Executed June 27, 2017
- Goals:
  - Implement targeted incentive projects throughout California that address a specific region's EV charging needs.
  - Provide a mechanism that speeds up the installation, reporting, and funding processes.





## Block Grant Project Background

- Block Grant Project vs Incentive Projects
  - Block Grant = Home for all Incentive Projects
  - Incentive Project = Geographical targeted project
- Current Funding: \$15.25 million
  - Up to \$200 million (future)



# FresYES

## Incentive Project Purpose

- 1<sup>st</sup> Incentive Project of the Block Grant Agreement
- To provide rebate payments to support the installation of level 2 charging stations at commercial, workplace and MUD sites in Fresno County.
- To install level 2 charging station that may support Fresno County's 2025 EV driver level 2 charging needs.



## Available Funding

- \$4 million funding available for FresYES
- Rebate with reservation
- Rebates:
  - \$7,000 per dual port
  - \$4,000 per single port
  - FresYES applicant cap of \$60,000 per calendar year



## Eligibility

- Private companies
- Public agencies
- Installation site must be in Fresno County
- Commercial
- Workplace (private and public)
- MUD shared parking (single family homes are excluded)



## Equipment Requirements

- Level 2 charging stations (J1772)
- $\geq 6.2$  kW capable
- Must be networked (minimum 1 year networking agreement)
- If payment is required, must accept some form of credit cards and multiple forms of payment
- Must be certified under the Nationally Recognized Testing Laboratory Program
- ***Must be ENERGY STAR<sup>®</sup> Certified\****



## Tentative Schedule

- Workshop September 28, 2017
- Deadline for Comments October 3, 2017 @ 4:00pm
- FresYES Launch Expected December 2017

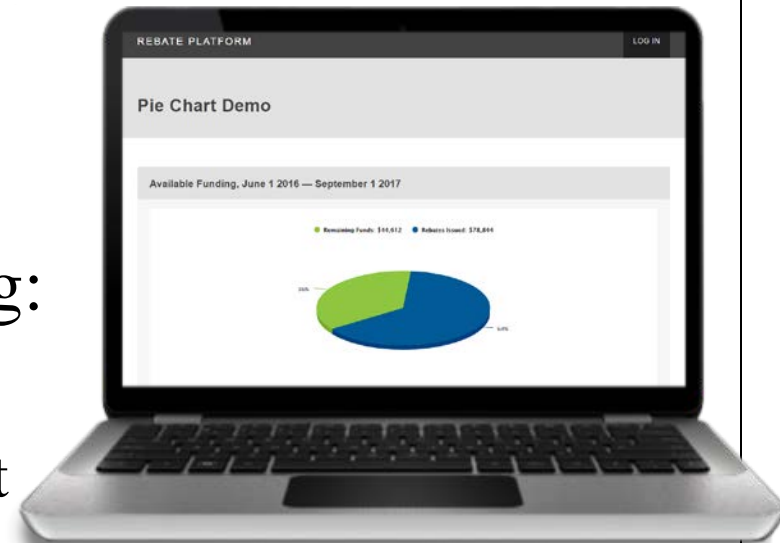


# Center for Sustainable Energy



## FresYES Website

- Basic Project Content including:
  - Overall project description
  - Eligibility requirements checklist
  - Applicant Steps / Timeline
  - What an applicant will need to start application process
  - Link to: Implementation Manual, FAQs, Privacy Policy, Contact Us
- Project Funding Section:
  - Pie chart and breakdown of *Rebates Issued and Reserved* and *Remaining Funding*

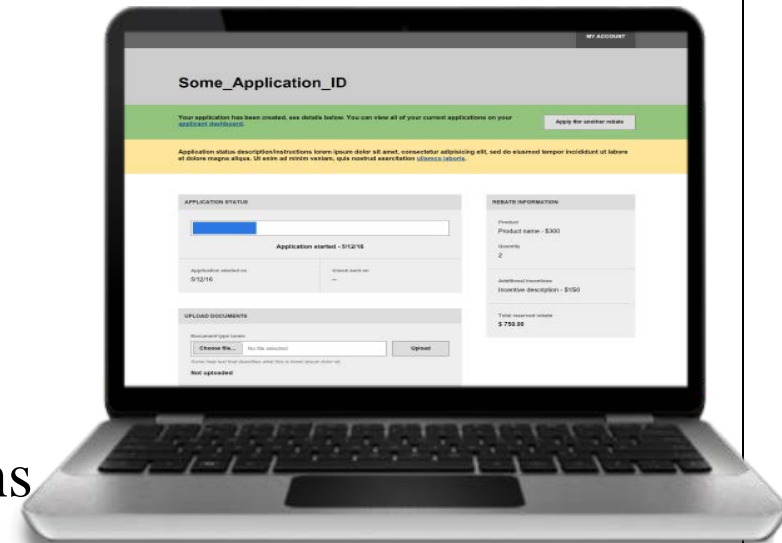






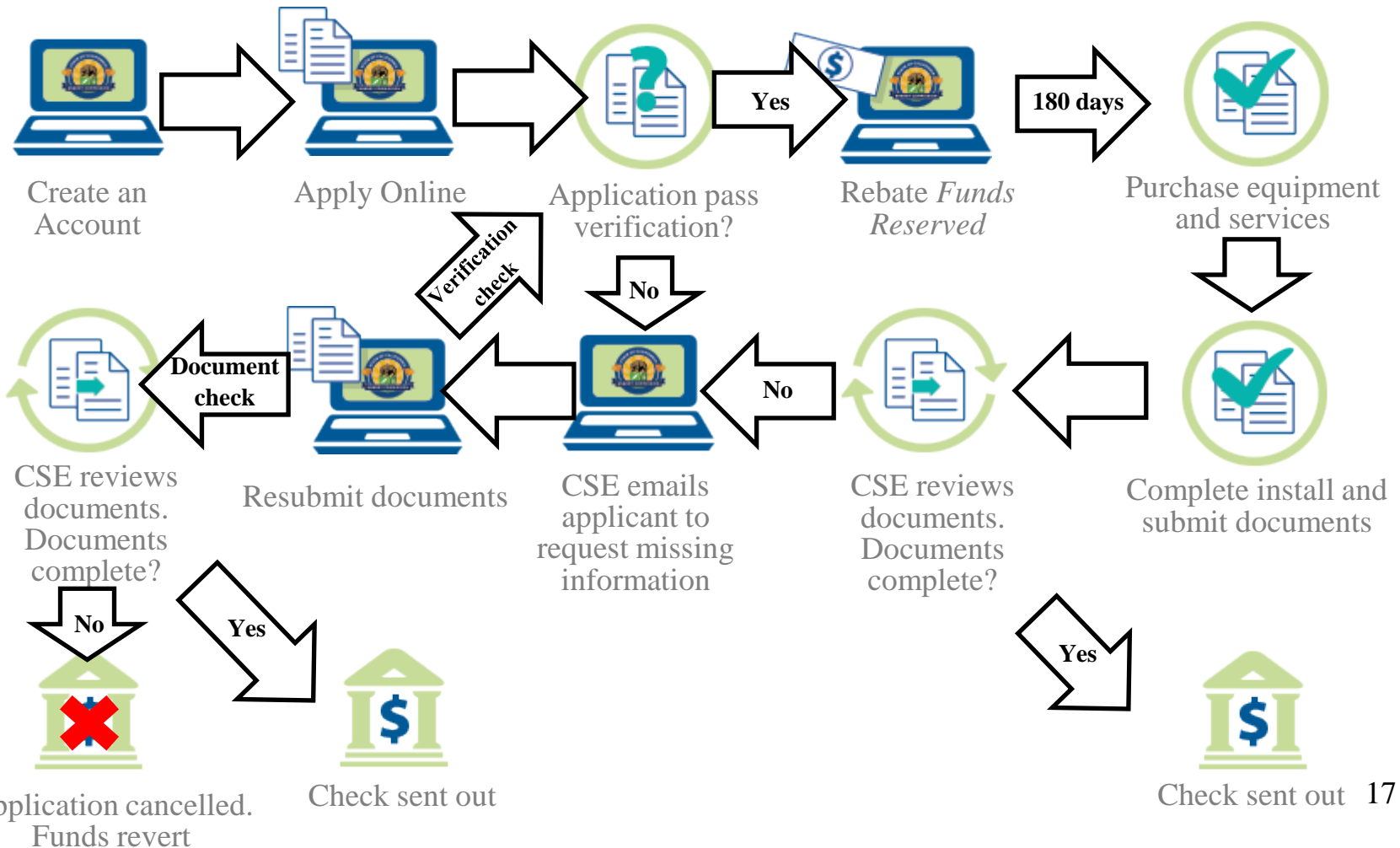
## FresYES Website

- Applicant Dashboard
  - Create an account
  - Apply and view prior applications
- Application Form
  - Name, organization information, installation address, eligible equipment picklist, display total rebate, survey
  - Transactional and reminder emails





# FresYES Application & Rebate Process





# Fres YES Equipment Self-Validation Worksheet

- Equipment manufacturers submit product information to qualify for Fres YES project

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1	Manufacturer	Model #	J1772 Connector	CHAdEMO Connector	SAE CCS Connector	Other Connector	Both CHAdEMO and SAE CCS Connector	# of Ports	Voltage	Input Current (A)	Electrical Output (kW)	Cord Length (s)	Cord Management System	Networkable	Networkable Types	LCD Display	Operating Temperature	Ability to accept some form of Credit Cards?	Ability to accept multiple forms of payment	Energy Star Certified	UL Certified	Intertek Certified	
2	Name	#####	Yes/No	Yes/No	Yes/No	Describe	Yes/No	#	H: ## M: ## L: ##	H: ## M: ## L: ##	H: ## M: ## L: ##	##ft	Yes/No/Optional	Yes/No/Optional	Description	Description/None /Optional	"-##F to ##F"	Yes/No/Optional	Yes/No/Optional	Certification #/NA	Certification #/NA	Certification #/NA	
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## FresYES Key Takeaways

- To be eligible equipment and services must be purchased after *FresYES Funds Reserved*
- Rebates are limited to \$60,000 per applicant per calendar year



## Future Website Plans

- Block Grant Website
  - Lists all Incentive Projects, past and present
- Hand-raising tools
  - Site Hosts, Vendors, Contractors, Public Siting
- Mapping of projects
- Information
- Statistics



## Future Block Grant Information

- Block Grant Website (coming April 2018)
- Energy Commission Block Grant information webpage (<http://www.energy.ca.gov/altfuels/zev/2017-EVI-01/>)
- Energy Commission list serve
- Center for Sustainable Energy list serve



# San Joaquin Valley APCD



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

# Charge Up! Incentive Program

Workshop on the FresYES Incentive  
Project

Thursday, September 28, 2017



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# Valley Needs More Clean Vehicles

- San Joaquin Valley faces multiple challenges due to emissions from mobile sources
  - Over 85% NOx emissions
  - Valley is home to two-thirds of the top 30 disadvantaged communities in California
- Valley lags behind the rest of the state in market penetration (electric, plug-in hybrid, natural gas, etc.)
  - 3% of participants in state electric vehicle programs
  - Minimal infrastructure to support electric vehicles
- May 2014: Governing Board approved comprehensive action plan for promoting use of clean vehicle technology
  - PEV Readiness Plan identifies lack of charging infrastructure as a significant barrier to PEV adoption



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24  
*Live a Healthy Air Life!*

# Charge Up! Program

- Charge Up! Program launched: June 2015
- Goals include:
  - Strengthen Valley's electric vehicle charging network
  - Reduce “range anxiety”
  - Increase awareness of EV technology to Valley residents
  - Promote the growth of EV adoption
- Provides incentives for public agencies, Valley businesses, and MUDs to install publically-accessible electric vehicle chargers throughout the Valley



# Funding

- Funding Levels:

Charger Type	Funding Amount
Level 2 Single Port	Up to \$5,000 per unit
Level 2 Dual Port	Up to \$6,000 per unit
Level 3 DC Fast Chargers	Up to \$25,000 per unit
Funding Cap	\$50,000 annually per applicant/site

- Minimum 30% applicant cost-share for DC fast chargers
- Incentive designed to cover 50 -75% of cost to purchase and install infrastructure
- Fiscal Year 2017/2018 Spending Plan: \$3 million

# Program Criteria

- Minimum applicant requirements:
  - Enter into an agreement with the District to receive funds
  - Be approved by the District for funding prior to the purchase and installation of EV charger(s)
  - Own, operate, and maintain EV charger(s) for the duration of agreement
  - Own site where EV chargers will be installed, or receive written permission from property owner
- Minimum site requirements:
  - Be located within SJVAPCD boundaries
  - Have designated parking stalls and appropriate signage
  - Align with our PEV Readiness Plan and Siting Analysis
  - Residential charging is not eligible



# Program Criteria (cont.)

- Minimum EV charger requirements:
  - Be a hard-wired or a stand-alone, solar-powered unit
  - Meet the SAE J1772 standard
  - Be UL listed (certified by Underwriters Laboratories, Inc.)
  - If applicable, have an open source protocol for payment
  - Have smart charging capabilities to track usage



# Application and Claim Process

- **Step 1**: Applicant submits a complete application to the District:
  - Quote for the entire project (chargers + installation costs) must be included
- **Step 2**: Application is reviewed and if approved, District will offer an agreement to applicant
  - Funds are allocated for the project once agreement is offered
- **Step 3**: Agreement is executed once it is signed by both parties
  - Applicants are not allowed to purchase or install the new EV charger(s) prior to the execution of the agreement

# Application and Claim Process (cont.)

- **Step 4**: Applicant purchases and installs EV charger(s)
  - Applicant is provided a one year period to complete project
- **Step 5**: Applicant submits a complete claim to the District for reimbursement
  - Invoices for EV charger(s) and installation costs
  - Site photos of installed EV charger(s) required
  - Site must be reported to the Department of Energy's Alternative Fueling Station Locator website:  
<https://www.afdc.energy.gov/locator/stations/>
- **Step 6**: District reimburses applicant

# Annual Reports

- Annual reporting required for 3 years, commencing approximately 1 year from the date of installation of EV charger(s)
  - District will provide applicant annual report form
- Minimum requested information:
  - Smart Tracking reports which include usage information such as frequency and duration
  - Equipment/Maintenance issues
- Obligations under the agreement are deemed complete once all annual reports are received





# EVs and Charging in the Valley

- Charge Up: 182 EV chargers and over \$1.3 million contracted to date
  - 45% of chargers are in EJ areas and 99% are in a zip code that contains a DAC census tract
- In Fresno County:
  - District's Drive Clean Rebate Program: 2,443 battery electric and plug-in hybrids
  - DOE: 50 publically accessible EV chargers
- Due to the significant growth of EVs, a large widespread network of EV chargers is needed to support the current population and provide for future growth



# Collaboration with CEC Block Grant

- Allow applicants to stack funding from both programs to maximize incentive funds and minimize out-of-pocket costs
- Implement potential changes to Charge Up Program to align with CEC Block Grant:
  - Convert program from a reimbursement to a rebate
  - Revise program requirements where practical to meet shared goals
  - Streamline application and claim validation process, where feasible
    - Avoid redundancies with CEC Block Grant
- Changes are pending Governing Board approval, with an anticipated relaunch of the program in December 2017

# Contact Information

## **Charge Up! Program:**

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## Comments

California Energy Commission  
Docket Unit, MS-4  
Re: Docket No. 17-EVI-01  
1516 Ninth Street  
Sacramento, CA 95814 -5512  
(916) 654-4423

<https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=17-EVI-01>

*Recommend all comments be submitted in online.*