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Project Title:	Block Grant for Electric Vehicle Charger Incentive Projects								
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Description:	FresYES Incentive Project Workshop - By: Brian Fauble, September 28, 2017								
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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

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AGENDA

- Welcome
- Incentive Project Overview
 - Eligibility and Requirements
 - Application Process and Website
- ChargeUp! Program
- Questions and Comments
- Adjourn

(CEC) (CSE) (SJVAPCD)



Alternative and Renewable Fuel and Vehicle Technology Program (ARFVTP)

Assembly Bill No. 8

CHAPTER 401

44271, 44272, 44273, 44274, 44273, 44280, 44281, 44280, 44281, 44280, 44284, 44299, 1, and 44299, 2 of, to add and repeal Section 43018.9 of, and to repeal 44299, 1, and 44299, 2 of, to add and repeal Section 44018, 44284, 448 94279.1, and 94279.2 01, to and and repeat Section 40016.7 01, and to repeat Section 44199 of, the Health and Safety Code, to amend Sections 42885 Section 44:59 of the Heath and Satety Loae: to amend Section 42:55 and 42:559 of the Public Resources Code, and to amend Section 92:50.1, 92:50.2, 20:61, and 95:35 of the Vehicle Code, relating to vehicular air pollution, and declaring the urgency thereof, to take effect immediately.

[Approved by Governor September 28, 2013. Filed with Secretary of State September 28, 2013.]

LEGISLATIVE COUNSEL'S DIGEST

AB 8, Peren, Alternative fuel and vehicle technologies: funding programs. (1) Existing law establishes the Alternative and Renewable Fuel and (1) EXisting any estaousnes are determined by the State Energy Resources user assumering, response, commission, to provide to specified entities conservation and Development Commission, to provide to specific cannot, upon appropriation by the Legislance, grants, loans, loan guarantees, involving home or other processing or provide the development of open approximation up une Legislature, guarni, como, iona guarantese, revolving loans, or ofter appropriate measures, for the development and deployment, for movietre technologies duat would transform California y fielt and while types to help attain the state's climate change goals. Existing fielt and while types to help attain the state's climate change goals. Existing new more venture types to any atom use tone or annual target grants are eligible for funding, or specines and only certain projects or programs are engine for runding chiding block grants administered by public entities or not-for-profi incroaning oncock grams auministered by public ennises or not-corporative technology emittes for multiple projects, education and program promotion within California, and development of alternative and renewable facil and multiple structures. vision on average of the second venues terminology centers: axising taw requires me commusion to develop and adopt an investment plan to determine priorities and opportunities for the program. Existing law also creates the Air Quality Improvement Program. stered by the State Air Resources Board, to fund air quality ensent projects related to fuel and vehicle technologies.

improvement projects retated to rust and venices technologies. This bill would provide that the state board has no authority to enforce any element of its existing clean fuch outlet regulation or other regulation any exement or us existing crean rules outer regulation or outer regulation that requires or has the effect of requiring any supplier, as defined, to that requires or has use curci or requiring may sequent, as oranged, the construct, operate, or provide funding for the construction or operation of any publicly available hydrogen-fueling station. The bill would require the nty publicly available hydrogen-tueing stanon. I ne will would require the state board to aggregate and make available to the public, no later than June 30, 2014, and every year thereafter, the number of hydrogen-fueled vehicles that motor vehicle manufactures project to be sold or leased over the next tast monot venue manufactures project to be sour or served over use next 3 years, as reported to the state board, and the number of hydrogene fueled vehicles registered with the Department of Motor Vehicles through April 10.0000 (19.0000) (19.000 venues registeres wan me terparateurs or soore venues unvega April 30. The bill would require the commission to allocate \$20 million annually, ane ona norma require the commission to anocate 320 minutes annuary, is specified, until there are at least 100 publicly available hydrogen-fueling

- 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.
 - \checkmark 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 In	stallations	Pub				
	Single- Family Residential	Private Fleet	Multiunit Dwelling	Commercial	Workplace	DCFC	Total
Installed	3,936	107	327	2,570	263	94	7,297
Planned (under construction)	0	0	18	741	161	461	1,381
Subtotal	3,936	107	345	3,311	424	555	8,678
Private/Public Subtotal	4,0	43		8,678			



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

- 1st 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)
- $\geq 6.2 \text{ kW}$ 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[®] Certified*



Tentative Schedule

- Workshop
- Deadline for Comments
- FresYES Launch

September 28, 2017 October 3, 2017 @ 4:00pm 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





FresYES Equipment Self-Validation Worksheet

• Equipment manufacturers submit product information to qualify for FresYES project

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1	Manufacturer	Model #		CHAdeMO Connector		Connector	Both CHAdeMO and SAE CCS Connector		Voltage		Electrical Output (kW)	Cord Length (s)	Cord Management System	Networkable	Networkable Types	LCD Display	Operating Temperature		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/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 <u>must be</u> 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 (<u>http://www.energy.ca.gov/altfuels/zev/2017-EVI-01/</u>)
- Energy Commission list serve
- Center for Sustainable Energy list serve



San Joaquin Valley APCD



Charge Up! Incentive Program

Workshop on the FresYES Incentive Project

Thursday, September 28, 2017



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

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

- <u>Step 1</u>: Applicant submits a complete application to the District:
 - Quote for the entire project (chargers + installation costs) must be included
- <u>Step 2</u>: Application is reviewed and if approved, District will offer an agreement to applicant
 - Funds are allocated for the project once agreement is offered
- <u>Step 3</u>: 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.)

- **<u>Step 4</u>**: Applicant purchases and installs EV charger(s)
 - Applicant is provided a one year period to complete project
- <u>Step 5</u>: 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: <u>https://www.afdc.energy.gov/locator/stations/</u>
- <u>Step 6</u>: 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

<u>Charge Up! Program:</u>

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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.asp x?docketnumber=17-EVI-01

Recommend all comments be submitted in online.