

TRANSITions 2021 Transit Webinar Series



GreenPower Motor Company San Joaquin Valley Air Pollution Control District January 21, 2021

AGENDA

1:30pm Allowing time for the attendees to arrive

1:33pm Welcome and Housekeeping

1:35pm GreenPower Motor Company Site Tour Video

1:45pm Ryne Shetterly, VP Sales and Marketing, GreenPower Motor Company

- <http://www.greenpowerbus.com>

Questions and Answers

2:05pm Matt Bischoff, Air Quality Specialist I, San Joaquin Valley Air Pollution Control District
California Volkswagen Mitigation Trust Funding: Zero-Emission Transit, School and Shuttle Buses

- <http://vwbusmoney.valleyair.org>

Questions and Answers

2:20pm Closing Remarks from Ryne Shetterly and Matt Bischoff

2:25pm Closing Remarks from Linda Urata

You are invited to the TRANSITions 2021 Site Tour Webinar: City of Porterville Leads the Charge!
January 28, 2021
10am to 11am





Electric Vehicles

About GreenPower



- Began in 2010 with the vision to advance the adoption of EVs by making battery-electric buses and trucks affordable, durable, and easy to deploy.
- Offer commercial vehicles for delivery, public transit, schools, vanpools, micro-transit, shuttles, and more.
- Our vehicles are built from the ground up to be electric and are never converted.
- The 'clean sheet' design allows for optimal placement of the battery and propulsion systems, increasing the overall vehicle strength and significantly enhancing the battery weight distribution compared to other electric vehicles.

The GreenPower chassis is designed to be the strongest, safest, and most durable product on the market.

EV Star CC

- The EV Star CC, bare **cab and chassis**, takes our concept of purpose-built to the extreme! Your body on our chassis, with all the benefits of being zero-emission.
- Industry-proven platform that can be outfitted to meet any industry needs.
- The Cab and Chassis' highly adaptable platform can take on your most difficult routes with maximum efficiency.



EV Star



- The EV Star is a multi-purpose, zero-emission Min-eBus that can be used for paratransit, employee shuttles, micro-transit, vanpools, and more.
- Range of up to 150 miles and offers dual charging capabilities as a standard.
- GreenPower offers multiple configurations that fit operators' needs to include ADA wheelchair access, luggage racks, and luxury seating.
- The EV Star is the only Buy America compliant and FTA Altoona-tested vehicle in its class.



EV Star +

- Seating capacity of up to 24 people and wheelchair position options available
- EV Star Plus is a cutaway bus with a wider body utilizing interior space more effectively as it is poised for a para-transit fleet operations.



EV Star Cargo

- Purpose-built, class 4 vehicle
- 1-2 person seating capacity
- 22.6 ft. in length
- Perfect for last mile delivery solutions.
- Range of up to 150 miles and class leading carrying capacity of 5,000+ pounds.



EV Star Cargo +

- The EV Star Cargo+ is the zero-emission vehicle for your last-mile delivery solutions.
- The Cargo+ is the only purpose-built Class 4, electric delivery truck currently available in North America and combines the EV Star CC with a dry freight body from highly reputable body manufacturers such as Marathon.
- Utilizing state-of-the-art lightweight and aerodynamic components, the EV Star Cargo+ features the same industry-leading range of up to 150 miles.



BEAST

- Battery Electric Automotive School Transportation
- Seatbelts are a standardized feature
- Longest driving range of up to 150 miles
- B.E.A.S.T. features a Monocoque chassis and has been designed from the ground up to be battery electric.
- Standardized features include air ride suspensions, ABS disk brakes, and passthrough storage.
- Seating capacity of up to 90 passengers.



EV250

- Features a monocoque chassis body with a stainless-steel chassis.
- The advanced battery systems gives the EV250 a range of up to 140 miles on a single charge.
- It has a seating of 21 seats plus standees



EV350

- The EV350 has a range of up to 200 miles on a single charge.
- It has a seating plan of 40 seated passengers plus standees and 2 wheelchair-positions.

Operating locally at Porterville Transit.





University of California
San Francisco

Thank you!



Ryne Shetterly

Vice President of Sales and Marketing

ryne@greenpowerbus.com

(909) 954-7530



greenpowerbus.com



Administered statewide by:

South Coast Air Quality Management District

Bay Area Air Quality Management District

San Joaquin Valley Air Pollution Control District

Overview of the Volkswagen Environmental Mitigation Trust



1	
2	
3	
4	UNITED STATES DISTRICT COURT
5	NORTHERN DISTRICT OF CALIFORNIA
6	
7	IN RE: VOLKSWAGEN "CLEAN DIESEL" MARKETING, SALES PRACTICES, AND PRODUCTS LIABILITY LITIGATION
8	
9	
10	This Order Relates To:
11	<i>United States of America v. Volkswagen AG et al.</i> , Case No. 16-cv-295 (N.D. Cal.)
12	
13	
14	In September 2015, Volkswagen publicly admitted it had secretly installed a defeat
15	device—software designed to cheat emissions tests and deceive federal and state regulators—in
16	certain Volkswagen- and Audi-branded turbocharged direct injection ("TDI") diesel engine
17	vehicles. Litigation quickly followed, and hundreds of actions were soon centralized in the above-
18	captioned multidistrict litigation ("MDL"). One of these lawsuits is an action brought by the
19	United States Department of Justice ("United States") on behalf of the U.S. Environmental
20	Protection Agency ("EPA") for violations of the Clean Air Act, 42 U.S.C. § 7401 et seq.
21	After five months of intensive negotiations under the supervision of a Court-appointed
22	Settlement Master, the United States; the People of the State of California, by and through the
23	California Air Resources Board ("CARB") and Kamala D. Harris, Attorney General of the State of
24	California (collectively, "California"); Volkswagen AG ("VW AG"); Audi AG; Volkswagen
25	Group of America, Inc. ("VWGoA"); and Volkswagen Group of America Chattanooga
26	Operations, LLC ("VW Chattanooga") (collectively, "Volkswagen") reached a Partial Consent
27	Decree that resolves claims concerning the 2.0-liter TDI diesel engine vehicles. (See Dkt. No.
28	1605.) Now, just over one year after news of the defeat device became public, the United States
	moves for the entry of the proposed Amended Partial Consent Decree ("Consent Decree"). (Dkt.



State of California

Beneficiary Mitigation Plan

For the Volkswagen Environmental Mitigation Trust

June 2018



Zero-Emission Transit, School, and Shuttle Buses

Eligible Projects and Funding Amounts

\$65M to Replace Class 4-8 Transit and Shuttle Buses

Transit Buses

Up to \$180,000

*For a new, commercially-available,
battery-electric bus*

Up to \$400,000

*For a new, commercially-available,
fuel-cell bus*

Shuttle Buses

Up to \$160,000

*To replace an eligible shuttle
bus with new, commercially-
available, zero-emission
technology*

- ✓ Total funding for this category is \$65 million, with \$4 million remaining for Transit and Shuttle Buses
- ✓ No more than 50% of available funds in each increment will be allocated to a single bus category
- ✓ Total cost per vehicle must not exceed 75% for non-government owned and 100% for government owned vehicles
- ✓ Stacking of VW funds with HVIP and other CARB funds not allowed

Zero-Emission Transit and Shuttle Buses

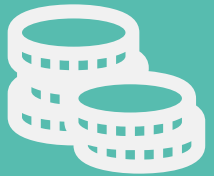
Key Points



Open to public and private organizations



First Come, First Served



**\$130M Total Funding
\$4M available in 2021**



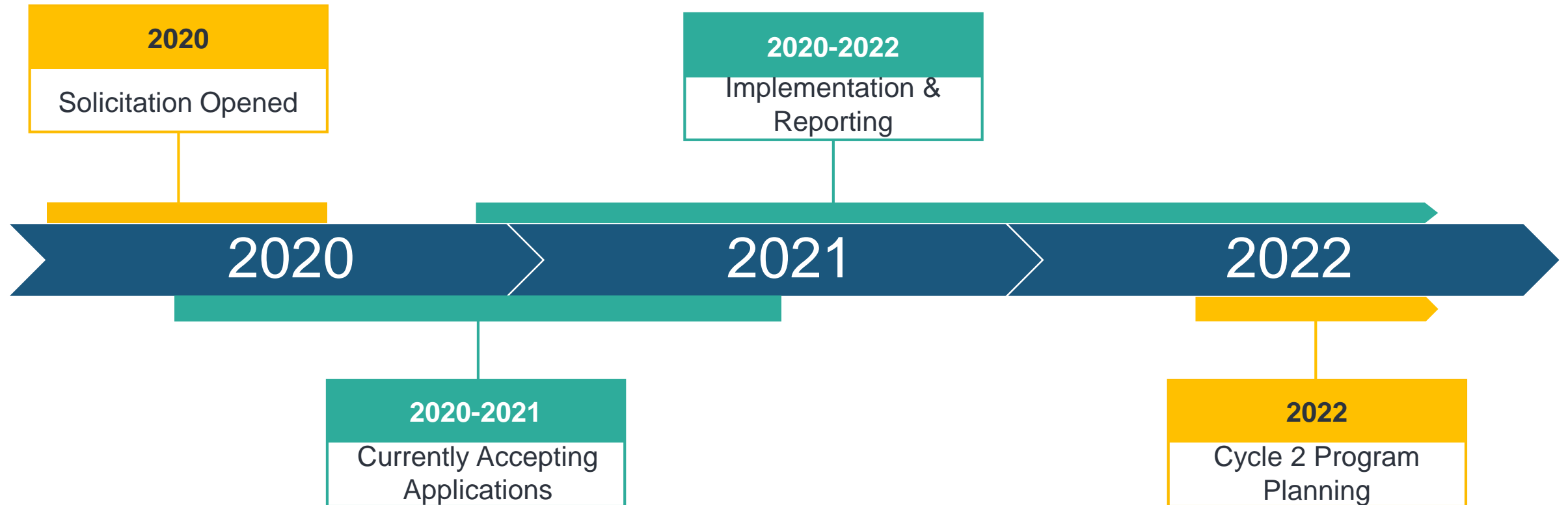
50% of funding to disadvantaged or low-income communities





Zero-Emission Transit and Shuttle Buses

Tentative Schedule



Zero-Emission Transit, School, and Shuttle Buses

Overview

- Applications must be submitted electronically through the online portal at <http://vwbusmoney.valleyair.org>
- Requirements for Old Bus (to be replaced)
 - Internal combustion engine (gasoline, diesel, CNG, or propane)
 - GVWR 14,001 or greater (Class 4 – 8)
 - Transit and shuttle buses must be 2009 or older
- Requirements for the New Bus (replacement bus)
 - Must be zero-emission (hydrogen fuel cell and battery electric-powered)
 - Listed on HVIP Eligible Vehicle List at www.californiahvip.org/
- Funding Limitation
 - The maximum funding expenditures per Entity, as determined by Tax Identification Number, is \$3,250,000
- Contract is required prior to beginning project, with three (3) year annual report
- Funds are disbursed upon verification of project completion (reimbursement)

Grantee Reporting and Operational Requirements



Inspections

Make old and new engine / vehicle available for inspection



Operations

Operate the “grant-funded” engine / vehicle in accordance with the contract



Payment

Submit request for grant funds AFTER receiving award and completing project



Reporting

Submit annual reports for the term of the contract (expected 3 years)



Scrapping

Scrap an older engine / vehicle and replace it with the “grant-funded” engine / vehicle

Public Benefit Grants Program

New Alternative Fuel Vehicle Purchase

- The San Joaquin Valley Air Pollution Control District (SJVAPCD) is currently accepting applications on a first-come, first-serve basis from Valley public agencies and eligible community action agencies requesting funding for the purchase of new alternative-fuel vehicles.
- Eligible vehicle must be a new electric, plug-in hybrid, or alternative fuel vehicle with a Gross Vehicle Weight Rating (GVWR) less than or equal to 14,000 pounds.
- Law enforcement agencies may apply for pursuit-rated hybrid police vehicles.
- Funding:
 - \$20,000 maximum for each new vehicle
 - \$100,000 maximum funding amount per calendar year per agency
- For additional information please contact program staff at (559) 230-5800 or visit our website at <http://valleyair.org/grants/publicbenefit.htm>
- A list of eligible on-road vehicles is available on our website.



Contact Information

Questions regarding the Clean Vehicle Fueling Infrastructure Program:

Call or email SJVAPCD Incentives Department:

Attn: Kevin Ng or Ashley Burrow

559-230-5800

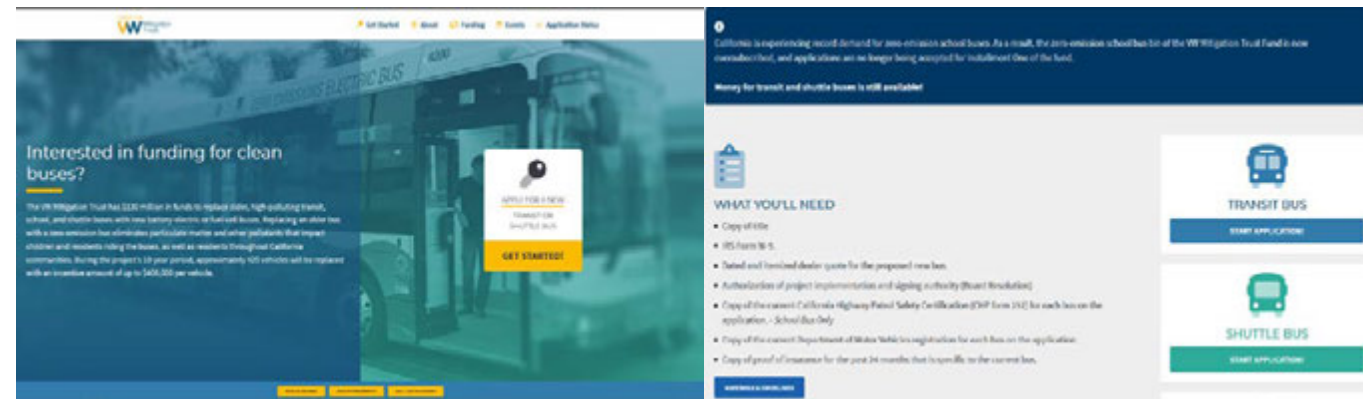
grants@valleyair.org

- ❖ Ask for the Public Benefit Program
- ❖ Sign up for SJVAPCD E-mail notifications at <http://valleyair.org/lists/list.htm>

Questions and Contact

Contact us at...

- <http://vwbusmoney.valleyair.org>
- Email General Inquiries to vwbusmoney@valleyair.org
- Sign Up for Updates at http://lists.valleyair.org/mailman/listinfo/vw_mitigation_trust_busmoney
- Call us at 1-833-Bus-Money
- Questions?





TRANSITions 2021 Transit Webinar Series

City of Porterville Leads the Charge!

January 28, 2021

10am to 11am

GoToMeeting

AGENDA

- 10:00am Allowing time for the attendees to arrive
- 10:02 am Welcome and Housekeeping – *Linda Urata*
- 10:04am Introduce the agenda – *Linda Urata*
- 10:06am City of Porterville Site Tour – *Linda Urata introduce*
- 10:15am Vice Mayor Martha A. Flores
- 10:25am Field Services Manager, Richard Tree
- 10:40am Mayor and SJVAPCD Board Member Monte Reyes
- 10:50am Questions and Answers
- 10:55am Closing Remarks
- Please watch for your emails for more TRANSITions Webinars in February 2021

Contact Information

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291 North Main Street
Porterville, California 93257
Phone: (559) 782-7499
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TTY: 1-800-855-7100 English
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Kern Council of Governments

Linda Urata, Regional Planner
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661-235-2904

TRANSITions 2021 Webinar City of Porterville
Leading the Charge!
Thu, Jan 28, 2021 9:45 AM - 11:30 AM (PST)

Please join my meeting from your computer, tablet
or smartphone.

<https://global.gotomeeting.com/join/846508517>

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Thank you to today's webinar
partners:





Photo by Abra Rispoli

Leading the Charge





City of Porterville



Photo by Shauna Craig

City of Porterville





City of Porterville



City of Porterville



City of Porterville



Cap and Trade
Dollars at Work

City of Porterville



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



City of Porterville



PUSD

Porterville Unified School District
600 West Grand Avenue • Porterville, CA 93257



Porterville Unified School District

(Data from 2018-19)

22

Schools
(grade range of K-12)



14,514

students



\$1,805,000

Annual Energy Cost for Buildings

83%

Students Eligible for Free or
Reduced-Price Meals

Porterville, Tulare County, California





City of Porterville



Richard Tree

rtree@ci.porterville.ca.us

(559) 782-7448

www.ridept.com



Meet HANK





Preparing for Zero Emission

Top 5



WHERE DO WE START

<https://homeworlddesign.com/bus-stop-in-baltimore/>



#1

Identify Your Barriers

#1 – Infrastructure

#2 – Utility Rate Structure

#3 – EV Knowledge

#4 – Service Requirements

#5 – Commitment



#2

Commitment



- Public
- Board
- Elected Officials
- Local Air District
- Staff

Funding

- Federal
- State
- Local



<http://www.brandtuitive.com/nestpresso-out-of-home/>

#3

Utility Provider Is Your Partner

Help Remove Barriers



Increased EV Adoption & Reduced Carbon Emission Goals



- Infrastructure – Rebates, Grants, Etc.
- Rate Structure – Designed To Encourage Adoption, Cost-Effectiveness
- Collaboration – Pilot Projects, Design, Future Needs

#4

Charging Station Infrastructure

Infrastructure Planning

- Utility
 - Early Involvement in planning process
 - Understand Rates and Low Carbon Fuel Credits
- Electrical Engineering
 - In-House vs Consultant
- Technology
 - Smart Charging
 - Charging Status and Communication

Path for Sustainability

	Baseline	Matching w/ RECs
Annual kWh	1,917,000 kWh	1,917,000 kWh
LCFS Credits	2,687	3,249
Current Value (\$/LCFS Credit)*	\$195.00	\$195.00
Gross Notional Value	\$523,965	\$633,555
SRECTrade Fees (10%)**	\$52,367	\$63,356
Cost to Procure RECs (est.)***	N/A	\$19,170
Annual Net Value	\$471,568	\$551,029
Value per kWh	\$0.246	\$0.287

*Current market value. Price subject to market fluctuation.

**Fee structure will be based on schedule defined in SRECTrade's Client Engagement Agreement.

***Uses \$10/MWh as an estimate. Value per REC can fluctuate.

Source: SRECTrade Estimates and indicative spot market pricing.



30.9 cents/kWh
average revenue from LCFS

VS.

14.5 cents/kWh
average cost of electricity

**2020 run-rate based on Q1 2020 revenue.*



#5

Seek Funding NOW

Major Funding Programs in California

Provider	Program
FTA	<ul style="list-style-type: none"> National LoNo – over \$100M since 2014 Section 5307 Capital Funds
California Air Resources Board (CARB) (Cap and Trade)	<ul style="list-style-type: none"> Zero-Emission Bus Pilot Commercial Deployment Project Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)
California Air Resources Board (CARB)	Low Carbon Fuel Regulation
California Air Resources Board (CARB)	VW Mitigation Trust - \$130 Million
California State Transportation Agency (CalSTA)	Transit and Intercity Rail Capital Program (TIRCP)
Caltrans	Low Carbon Transit Operations Program (LCTOP)
Local Air Districts	Public Benefits Grant
Finance Options	<ul style="list-style-type: none"> Lease Options Battery Financing

* Not a complete list

Electric Transit Bus

<u>Source</u>	<u>Amount</u>	<u>Task</u>
California Air Resources Board (CARB)	\$9,516,422	<ul style="list-style-type: none"> • 10 Buses • 12 Charging Stations • Spare Parts
San Joaquin Valley Air Pollution Control District (SJVAPCD)	\$1,088,477	"Matching Funds" <ul style="list-style-type: none"> • Buses • Charging Stations
Southern California Edison (SCE)	\$1,000,000*	<ul style="list-style-type: none"> • Utility Upgrades • Charging Station Rebate • Demand Charge Waiver
Federal Transit Administration	\$2,064,319	<ul style="list-style-type: none"> • Infrastructure
TOTAL FUNDING		\$13,669,219



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT





Electric Transit Vans

<u>Source</u>	<u>Amount</u>	<u>Task</u>
California Air Resources Board (HVIP)	\$880,000	<ul style="list-style-type: none"> Voucher
Caltrans SB1/SGR	\$255,806	<ul style="list-style-type: none"> Vans
Local Sales Tax Measure	\$600,000	<ul style="list-style-type: none"> Vans
Local Transportation Funds	\$489,450	<ul style="list-style-type: none"> Vans
Southern California Edison (SCE)	\$800,000*	<ul style="list-style-type: none"> Utility Upgrades Charging Station Rebate Demand Charge Waiver
Federal Transit Administration	\$800,000	<ul style="list-style-type: none"> Infrastructure
TOTAL FUNDING		\$3,825,256







Share Your Success

Valley Air Clean Vehicle Programs

www.valleyair.org/grants

Focused on Zero & Near Zero Emission Vehicle Deployment

- Drive Clean Rebate
- Drive Clean Replace
- Charge Up!
- School, Transit, & Shuttle Bus
- Public Benefits
- Heavy Duty Truck Program
- Heavy Duty Alternative Fuel Infrastructure



Large Scale Projects

- Electric and Natural Gas Powered Equipment at Frito Lay Distribution Center
- Battery-Electric Locomotive and Electric & Hybrid Freight Equipment at BNSF Railway
- Battery-Electric Delivery Vehicles for United Postal Service & Aramark



Rebates to Support Adoption

Drive Clean Rebate

- Up to \$3,000 for zero emission
 - (battery or fuel cell)
- Up to \$2,000 for plug in hybrid vehicles
- Up to \$1,000 all-electric motorcycles
 - No limit on number of vouchers per person, per household
 - No income or MSRP limit
 - Must be registered with SJVAPCD at time of purchase

Charge Up!

- Up to \$5,000 per single-port L2 charger
- Up to \$6,000 per dual-port L2 charger
- Up to \$25,000 per L3 (DCFC)
 - Maximum funding - \$50,000 per applicant per year
 - Can be used for publicly accessible employee charging or multi-unit dwellings

Volkswagen Mitigation Funds

\$4,000,000 available for transit and shuttle bus

- \$160,000 for zero-emission electric shuttle bus
 - \$180,000 for zero-emission electric transit bus
 - \$400,000 for zero-emission fuel cell transit bus
- Requires a 2009 or older bus to permanently scrap
 - Funding available to public and private entities

Heavy Duty Truck Replacement

- Up to \$200,000 for zero-emission heavy duty truck replacement
- Up to \$100,000 for optional low NOx truck
 - (0.02 g NOx engine)
 - 2009 or older truck and fleet must be in compliance with On-Road Truck Regulations
 - Must be domiciled with the District and operate at least 75% of annual miles in CA and 50% within District boundaries

Public Benefits Grant Program

- Up to \$20,000 per vehicle
 - Maximum \$100,000 per agency per year
 - Both electric vehicles & electric carts
 - First come first served basis

City of Porterville

Future on Clean Transportation



1. Reduce our Carbon Footprint
 - 100% Zero-Emission Fleet (Heavy & Light)
 - Energy Efficient Facilities
2. Prepare for Autonomous Vehicles (Electric)
3. Infrastructure to Support State Regulations (2035)
4. Renewable Energy Systems & Battery Storage
 - Enhance Grid Resilience
5. Smart City
 - Microgrids

