

San Joaquin Valley Air Pollution Control District AB 617 Community Emission Reduction Program

Drive Clean in the San Joaquin Replace Emission Reduction Program Plan

***South Central Fresno Community
Stockton Community***

PROJECT IDENTIFICATION

- *SOUTH CENTRAL FRESNO CERP C.2: INCENTIVE PROGRAM FOR THE REPLACEMENT OF PASSENGER VEHICLES WITH BATTERY ELECTRIC OR PLUG IN HYBRID VEHICLES*
- *STOCKTON CERP TP.2: INCENTIVE PROGRAM FOR THE REPLACEMENT OF PASSENGER VEHICLES WITH BATTERY ELECTRIC OR PLUG IN HYBRID VEHICLES*

This is a Community Identified Project included and prioritized in the California Air Resources Board (CARB) and District adopted South Central Fresno and Stockton Community Emission Reduction Program (CERP). The Drive Clean in the San Joaquin Replace Emission Reduction Program is part of [California Climate Investments](#), a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment – particularly in disadvantaged communities.

This measure will reduce Oxides of Nitrogen (NOx) and Particulate Matter (PM2.5) emissions from passenger vehicles by providing incentives for South Central Fresno and Stockton residents to replace up to 220 and up to 100 high emitting vehicles respectively.

COMMUNITY SUPPORT

This measure received support from both the South Central Fresno and Stockton Community Steering Committees (CSC) and was included in the adopted CERP. This plan was developed and modeled after existing plans and resources for similar projects within the Air District and includes feedback received from the CSC to create a plan to address the unique needs of the community. Information about the Steering Committees is included below:

- (1) Name(s) of the community group(s):**
 - a. South Central Fresno Steering Committee [Map](#)
 - b. Stockton Steering Committee [Map](#)
- (2) Purpose of community group(s)**
 - a. AB617 Community Engagement and Public Input

- (3) Total number of members in the community group(s)**
 - a. South Central Fresno – 20 members
 - b. Stockton – 34 members
- (4) Date(s) of formation/establishment**
 - a. South Central Fresno – December 2018
 - b. Stockton – March 2020
- (5) A description of the decision-making process must be included.**
 - a. South Central Fresno Steering Committee [Charter](#)
 - b. Stockton Steering Committee [Charter](#) and [Voting Process](#)
- (6) Community Support Demonstration**
 - a. South Central Fresno [CERP](#)
 - b. Stockton [CERP](#)
- (7) Ongoing Community Support Demonstration**
 - a. South Central Fresno [Prioritization Exercise](#) - This measure was discussed and prioritized by the CSC
 - b. Stockton [Prioritization Exercise](#) – This measure was discussed and prioritized by the CSC

MECHANISM FOR INFORMING COMMUNITY

This measure will be discussed at CSC meetings in addition to outreach activities to inform residents of the program and requirements for participation. The outreach conducted has and will continue to be the following:

- Social media
- Mailers
- Print ads
- Press releases and press events
- Events, town halls, webinars etc.
- Other ideas as brought up by committee

Additionally, the District and CSC have jointly developed a tool to track progress of each measure adopted within the CERP for this community;

- South Central Fresno Community [tracker](#)
- Stockton Community [tracker](#)

The tracker for each community is updated monthly and includes updates such as number of projects contracted, funding allocated, project-associated benefits to the community, and other information specific to each measure. The trackers are shared directly with members of each CSC community ahead of each regularly scheduled CSC meeting and are available on the community webpage in both English and Spanish.

The District's program partner Valley Clean Air Now (Valley CAN), who assists with the existing Drive Clean in the San Joaquin Replace Program, will also be supporting the administration of this plan for both the South Central Fresno and Stockton communities. Valley CAN has historically leveraged the in-person Tune In Tune Up (TITU) events for the District's Repair Program with its Replace Program. At these events, participants

who qualify for incentives to repair their vehicles, but opt not to undergo those repairs, are also evaluated for eligibility in the Replace Program. The TITU events have traditionally been an additional avenue for outreach to Valley residents about the Replace Program. The District will continue utilize the TITU events as an additional outreach mechanism for the Replace Program.

In addition to the TITU events, Valley CAN has previously conducted Clean Car Clinics to educate residents about the Replace Program and help them apply with face-to-face guidance. These clinics are conducted after regular work hours, typically in the evening, at local facilities or restaurants to reach residents where they live. The clinics have been very effective at reaching targeted communities where attendance at a TITU event is not feasible because the events occur at locations that are too distant for some residents, or the date and time of the event is not convenient. For the South Central Fresno and Stockton communities, Valley CAN will aim to implement targeted clinics to those residents in addition to the other outreach mechanisms that have been identified.

REPLACEMENT PROGRAM REQUIREMENTS

(A) Drive Clean in the San Joaquin Replace Program Eligibility:

The Drive Clean in the San Joaquin Replace Program guidelines are attached as Exhibit A. In implementing this CERP measure, the District will follow existing program guidelines and eligibility criteria with the incorporation of an additional requirement to ensure that the participant residence is located within the boundaries of either the South Central Fresno or Stockton communities AB617 communities. The participant must currently own the vehicle that will be replaced through the program and provide proof of ownership for the previous six months, provide two years proof that the vehicle has been in use including but not limited to vehicle registration or proof of insurance, and meet minimum income qualifications. In addition, the participant's vehicle that is being replaced through the program must be a model year 2006 or older vehicle and have sufficient functionality to be driven on the road. There is a limit of one replacement per household per lifetime of the Program.

(B) Participant Requirements:

- (1) Application: The participant must apply for the program by submitting an online application at <http://valleyair.org/drivecleaninthesanjoaquin>. A participant may also call the District at (559) 230-5800, or program partner Valley CAN at (559) 852-9282 or at (209) 808-2939 for assistance in completing an application. Once an application is submitted, a Valley CAN representative reviews the application for completeness and screens for eligibility, then submits it to the District for final review and approval.

The maximum amount awarded to a participant's project depends on

whether the replacement vehicle they will purchase is new or used, the type of vehicle, and their income qualification. The District will utilize the Federal Poverty Level (FPL) standards as provided by the U.S. Department of Health and Human Services to determine income eligibility. The income threshold used to qualify an applicant is updated annually when the FPL is updated. Income eligibility will be determined by the most current tax return or other documentation deemed sufficient to confirm participant's household income. Participants who are determined to have an annual household income less than 300% of the FPL are eligible for incentives through the program.

If approved, participant will receive by email an Application Approval Letter that will identify the maximum eligible incentive amount that has been awarded for their project. In addition, a list of approved dealerships where a replacement vehicle can be purchased will be provided. The participant will also be contacted by Valley CAN to confirm their approval and discuss next steps.

- (2) Selecting a Replacement Vehicle: The participant must purchase an eligible replacement vehicle from a participating Replace Program auto dealership. The participant must work with a Valley CAN representative, as well as a representative from one of the dealerships, to select an eligible vehicle.

Eligible replacement vehicle types are limited to: plug-in hybrid electric vehicles (PHEV), and zero-emission vehicles (ZEV) such as a full battery-electric vehicles (BEV). The participant may purchase a new or used vehicle; however, used vehicles must be 8 years old or newer as calculated by subtracting 7 from the current calendar year of the purchase transaction. Replacement vehicles that have previously been funded through the District's existing Replace Program are ineligible.

Once the participant selects a replacement vehicle, the dealership will submit the vehicle information for review and approval. If the selected vehicle meets program criteria, a check for the eligible incentive amount will be issued and made payable to the dealership. If the selected vehicle is not eligible, the participant will be required to choose another vehicle that is program eligible to complete their project.

- (3) Final Transaction: Once a check has been issued, the participant must complete the final purchase of the replacement vehicle. Valley CAN or a dealership representative will contact the participant to schedule a time to complete the final transaction. The incentive check will be utilized at the time of transaction to reduce the purchase price of the replacement vehicle. Any costs which exceed the incentive amount on the check must be paid by the participant, whether by cash or via financing, to complete

the full purchase of the vehicle. Upon completion of the final transaction, the participant must surrender their old vehicle, its keys, and title to the dealership. The participant will then receive their replacement vehicle and Valley CAN will submit the transaction documents to the District for reporting purposes. The dealership will house the participant's old vehicle and coordinate with Valley CAN to schedule the vehicle to be picked up by a dismantler, and be permanently removed from operation.

- (4) Post-Transaction: The participant is required to own, and properly register and insure the replacement vehicle for a minimum of 30 months from the vehicle purchase date. Surveys will be issued to program participants to garner feedback regarding their experience with the vehicle and whether the participant has retained ownership of the vehicle. If a participant has sold their vehicle, or damaged it beyond repair (as determined by their insurance provider) and not replaced it with another program eligible vehicle prior to the 30 month ownership requirement, the participant may be required to repay a portion or the full incentive amount provided for the purchase of the vehicle. The amount that will be requested to be repaid is relative to when the participant relinquished ownership of the vehicle.

FUNDING AMOUNTS

The approved CERP includes \$1,600,000 for the South Central Fresno community and \$800,000 for the Stockton community for the implementation of this measure. This funding will provide for the replacement of up to 220 vehicles in the South Central Fresno community and up to 100 vehicles in the Stockton community. There is no intent to co-fund vehicle replacements with any existing District administered funding. However, should participants be eligible for additional rebates through other agencies or organizations, they may apply contingent on available funding through those programs. Such programs may include but are not limited to the Clean Vehicle Rebate Project (CVRP), the Clean Fuel Reward Program, available rebates offered through local utility provider and available tax rebates.

Table 1 summarizes the maximum incentive amounts for each income tier that is available to residents of the South Central Fresno and Stockton communities through the program. The incentives listed below for the used vehicle option are consistent with the changes that CARB has made and can be found within the approved [Fiscal Year 2022-23 Funding Plan for Clean Transportation Incentives](#). These incentives will be reflected in the upcoming CARB grant agreement with the District. Participants may be eligible for an incentive of up to \$12,000 towards the purchase of an eligible replacement vehicle. These incentive levels were developed through the CSC process and include feedback received from the CSC to create incentive levels to address the unique needs of the community. The maximum amount awarded to a participant's project depends on the type of vehicle they purchase and their income qualification. The District will utilize the Federal Poverty Level (FPL) standards as provided by the U.S.

Department of Health and Human Services to determine income eligibility. The income threshold used to qualify an applicant is updated annually when the FPL is updated. Income eligibility will be determined by the most current tax return or other documentation deemed sufficient to confirm participant's household income. Participants who are determined to have an annual household income less than 300% of the FPL are eligible for incentives through the program.

Table 1: Replace Program Eligible Funding Amounts for the South Central Fresno and Stockton Communities

Vehicle Type		PHEV	BEV
300% FPL and below	NEW/USED Plug-in Hybrid Electric or Zero-Emission Vehicle Purchase	\$11,500	\$12,000

Funding amounts listed in Table 1 have both the South Central Fresno and Stockton communities' support, and apply towards the base price, taxes and fees associated with the purchase. If the total eligible costs are less than the incentive amount, the final amount issued to the dealership will be reduced. If the total cost of the replacement vehicle is more than the incentive amount, the remaining balance is an out-of-pocket expense paid by the participant. There are no minimum match requirements for participating in the program; however, participants must pay for any costs that exceed the eligible incentive amount. Prior to finalizing a transaction, the participant may opt to not proceed with the program if the cost of the replacement vehicle makes participation infeasible.

VEHICLE REPLACEMENT PROJECT SELECTION AND REPORTING

Projects will be approved on a first come, first serve basis determined by the order in which the District receives a participant's application. The District will report program information in accordance with Community Air Protection program guidelines found at: https://ww3.arb.ca.gov/msprog/cap/docs/cap_incentives_2019_guidelines.pdf.

VEHICLE REPLACEMENT EMISSION REDUCTION TARGETS AND BENEFITS

The goal of this measure is to replace up to 220 vehicles in the South Central Fresno community with an expected emission reduction of 1.98 tons of NOx and 0.07 tons of PM2.5 and up to 100 vehicles in the Stockton community with an expected emission reduction of 0.2 tons of NOx. Mobile source emissions account for over 85% of the overall NOx inventory in the San Joaquin Valley. With no regulatory authority over these sources, the District has relied on voluntary incentive programs to replace high emitting vehicles. Reducing emissions from passenger vehicles is important due to their contribution to the formation of ozone in the Valley.

The District will utilize an established Replace Program emission reduction calculation methodology to calculate the emission reductions achieved from each completed project. The District's Replace Program emission calculations are based on CARB's Low Carbon Transportation Investments and the Air Quality Improvement Program [Emission Reductions Quantification Methodology](#) established for estimating emissions from the replacement of older, high-emitting vehicles with cleaner advanced technology vehicles.

A project life of 2.5 years (30 months) will be used when calculating emission reductions. This project life is based on the expectation that the replacement vehicle be operated and domiciled within the community for a minimum of 2.5 years. Annual miles traveled will be based on the annual usage assumptions that have been calculated by CARB staff, and will be used to calculate the estimated annual NOx and PM2.5 emissions reductions from vehicle replacements.

The necessary formulas to calculate the NOx and PM2.5 emission reductions and cost-effectiveness for a project are provided below.

Formula A-1: Estimated Annual NOx and PM2.5 Baseline Emissions From a 2000 Model Year Vehicle (tons/yr)

$$\begin{aligned} \text{Annual NOx Baseline Emissions (ton/year)} = \\ \text{NOx emission factor (g/mi)} * \text{annual miles traveled (mi/yr)} / 907,200 \text{ (g/ton)} \end{aligned}$$

$$\begin{aligned} \text{Annual PM2.5 Baseline Emissions (ton/year)} = \\ \text{PM2.5 emission factor (g/mi)} * \text{annual miles traveled (mi/yr)} / 907,200 \text{ (g/ton)} \end{aligned}$$

Formula A-2: Estimated Annual NOx and PM2.5 New Emissions from a 2018 Model Year Vehicle (tons/yr)

$$\begin{aligned} \text{Annual NOx New Emissions (tons/year)} = \\ \text{NOx emission factor (g/mi)} * \text{annual miles traveled (mi/yr)} / 907,200 \text{ (g/ton)} \end{aligned}$$

$$\begin{aligned} \text{Annual PM2.5 New Emissions (ton/year)} = \\ \text{PM2.5 emission factor (g/mi)} * \text{annual miles traveled (mi/yr)} / 907,200 \text{ (g/ton)} \end{aligned}$$

Formula A-3: Estimated Annual NOx and PM2.5 Emission Reductions (tons/yr)

$$\begin{aligned} \text{Annual NOx Emission Reductions (ton/yr)} = \\ \text{Annual NOx baseline emissions (ton/yr)} - \text{annual NOx new emissions (tons/yr)} \end{aligned}$$

$$\begin{aligned} \text{Annual PM2.5 Emission Reductions (ton/yr)} = \\ \text{Annual PM2.5 baseline emissions (ton/yr)} - \text{annual PM2.5 new emissions (tons/yr)} \end{aligned}$$

Formula A-4: Estimated Annual Total Combined NOx and PM2.5 Emission Reductions (tons/yr)

$$\begin{aligned} \text{Annual Total Combined Emission Reductions (ton/yr)} = \\ \text{Annual NOx emission reductions (ton/yr)} + \text{annual PM2.5 emission reductions (tons/yr)} \end{aligned}$$

Formula A-5: Estimated Lifetime Total Combined NOx and PM2.5 Emission Reductions (tons/yr)

$$\begin{aligned} \text{Lifetime total emission reductions (tons)} = \\ \text{Project life (yr)} * \text{annual total combined Emission Reductions (tons/yr)} \end{aligned}$$

Formula A-6: Cost-Effectiveness of the Emission Reductions (\$/ton)

$$\text{Cost-Effectiveness (\$/ton)} = \text{Grant Amount (\$)} / \text{Lifetime total emission reductions (tons)}$$

The following tables summarize the data needed to calculate NOx and PM2.5 emission reductions for Replace Program projects.

Emission Factors (g/mi)		
	NOx	PM2.5
2000 MY Gasoline	0.1922	0.0208
2018 PHEV	0.0087	0.0108
2018 BEV	0	0.0099

Annual Usage Assumptions	
Technology	Usage (mi/year)
PHEV	14,855
BEV	14,400

Project Life (Years)
2.5