

# City of Shafter Community Emissions Reduction Program (CERP) Development

Updated emission reduction and exposure reduction strategies for Committee feedback

August 26, 2019

San Joaquin Valley Air Pollution Control District

# CERP Development Continues

- Draft CERP continues to evolve in response to public input
  - Numerous comment letters received in recent weeks (Steering Committee members, City, County, DPR, public participants)
- CERP measures to reduce emissions/exposure to pollution:
  - Cost-effective use of incentives to fund zero and near-zero emission cars, trucks, other mobile sources; low-dust harvesters, stationary sources; school filtration devices; fireplace replacements; etc.
  - District regulatory efforts (residential wood burning, flares)
  - State actions to reduce emissions (heavy duty trucks, pesticides)
  - Local actions to reduce emissions (cities/counties)
  - Increased outreach to educate community residents about the availability of funding, HAL Schools, RAAN, regulatory requirements
  - Enhanced enforcement – increased inspection frequency for facilities with emissions violations; enhanced residential wood burning surveillance; enforce CARB truck idling rule; etc.

# Measure Updates As Reviewed August 5<sup>th</sup> Based on Committee Feedback

- Increased funding amounts for EV's based on comments about lack of accessibility to funding for low-income residents
- Commitment to work with CA Public Utilities Commission and utilities to bring available state funding to Shafter for solar
- Commitment to support car share program (e.g. Miocar, Green Commuter, etc.)
- “Test Drive Program” with \$200,000 of funding
- Two EV's for Dial-A-Ride Transportation Service
- Commitment to work with City/County to address truck Rerouting
- Increased commitment for electric school buses (8 total in community)
- Replacement of oil wells and related equipment with funding support, plus regulatory review through IC Engine Rule amendment process
- Increased incentive funding for diesel ag pump electrification

# Measure Updates As Reviewed August 5<sup>th</sup> Based on Committee Feedback (cont.)

- Increased funding for Ag Burning Alternatives from \$500,000 to \$1,000,000
- Commitment to amend Rule 4311 (Flares) through public process, incorporating Steering Committee comments
- Addition of measure for CARB and High Speed Rail Authority to address community suggestions regarding use of Tier 4 engines in off-road construction equipment
- Expanding existing program guidelines for Burn Cleaner to provide funding for electric heat pumps
- Urban Greening goal of planting 1000 trees through state funding to Shafter
- Specific outreach committed for yard truck replacements
- CARB and DPR committed to develop specific pesticide measures
- More flexible vehicle eligibility under Drive Clean in the San Joaquin
- FREE Electric lawn equipment for Shafter residents (LG.1)

# Flexibility in Funding Amounts

- Steering Committee meetings will be ongoing after CERP is adopted
- The District will continue to work with the Steering Committee to receive community input as program guidelines are developed and projects are implemented within the community
- Adjustments may be made to measure goals and/or funding amounts based on Steering Committee input, funding availability, and cost-effectiveness of projects to achieve overall emission reduction targets of the CERP

# Solar Deployment in Shafter (SD.1)

- **Suggestions:** Some Committee members have expressed strong interest in directly funding residential solar installations in Shafter
- **Proposed Measure Update:**
  - State and District funding under this proposal would total \$15 million for residential solar in Shafter, contingent on successful advocacy for state funding
  - District will consider providing \$1.5 million in District funding as 10% match towards new State program (\$15 million total) to incentivize installation of residential solar and home electrification in the City of Shafter
  - Funding proposal contingent upon approval by CARB, and commitment by CARB/PUC to adopt new program that provides all emissions reduction benefits to local funding investment
  - District will work with Steering Committee and other partners to advocate for new state funding to support proposed measure

# “Test Drive” Program

- **Suggestions:** Committee members expressed that funding for this measure (originally \$200,000) was too high
- **Proposed Measure Update:**
  - In published draft CERP, this measure was integrated as a part of the incentive program for the replacement of passenger vehicles with battery electric or plug in hybrid vehicles (Measure C.2)
  - Initially proposed funding was allocated to Measure C.2 total to provide flexibility based on interest in and usefulness of program

# Incentives for Electric Vehicles (C.2)

- **Suggestions:** Some Committee members commented that the ‘Incentive Program for the Replacement of Passenger Vehicles with Battery Electric or Plug-in Hybrid Vehicles’ measure (pays up to full cost of vehicle) should be increased to accommodate low-income residents that do not benefit from federal tax credit.
- **Proposed Measure Updates:**
  - District to consider increased incentive amounts for low income-qualified applicants (up to \$2,500 extra funding)
    - For new purchases, tracking individual’s qualifications for, and receipt of, federal tax credit difficult or impossible
    - For leases, federal tax credit always available (dealer takes credit, lowers price)
  - Contingent upon establishing necessary precautionary measures to ensure that funding beyond cost of vehicle is not provided



# Residential EV Charging

- **Suggestions:** Some Committee members commented that funding, in addition to the available \$800 PG&E rebate, should be made available to support Level 2 charging at residences
- **Proposed Measure Update:**
  - An additional funding amount of up to \$20,000 will be added to Measure C.2 for a pilot project to allow Shafter residents to install charging infrastructure at residences (total funding for Measure C.2 of \$2,020,000)
  - Up to \$200 of additional funding provided per residence, as necessary, to accommodate Level 2 charging (on top of PG&E rebate)

# Car Share Program (C.5)

- **Suggestions:** Some Committee members commented to recommend increased funding to further subsidize the cost of EV car share rental.
- **Proposed Measure Update:**
  - District staff proposing to increase funding for this measure from \$250,000 to \$300,000
  - Based on District experience supporting the launch of other car share programs, this additional funding will adequately subsidize cost of ridership

# Heavy Duty Truck Replacement (HD.1)

- **Suggestions:** Some Committee members suggested that funding for this measure be reduced from the initially proposed \$6,000,000.
- **Proposed Measure Update:**
  - Funding for heavy duty trucking will be reduced to \$4,000,000, with a goal of replacing 40 heavy duty trucks that operate in and around the community of Shafter

# Zero Emission Yard Trucks/TRUs (HD.2)

- **Suggestions:** Some Committee members suggested reducing from an initially proposed \$4,000,000 to replace 30 units to only incentivize the electrification of two units.
- **Proposed Measure Update:**
  - Funding for this measure will be reduced to \$1,500,000; goal of replacing 10 units that operate in or around Shafter
  - Specific outreach to local operations as suggested by Steering Committee

# Electric School Buses (HD.4)

- **Suggestions:** Many Committee members supported this measure, and suggested increasing \$3,200,000 initially proposed funding to increase availability of electric school buses to additional local schools
- **Proposed Measure Update:**
  - Increased goal to replacing 10 buses in and around Shafter, with targeted outreach to Maple School and Rio Bravo School
  - Increased funding for measure to \$4,000,000

# Dairy Feed Mix Equipment Electrification (A.1)

- **Suggestions:** Some Committee members suggested eliminating funding for the electrification of dairy feed mixing equipment (Measure A.1)
- **Proposed Measure Update:**
  - Significant, cost-effective emission reductions associated with this measure
  - Funding allocation reduced from \$6.5 million to \$3.9 million to fund up to 5 projects

# Ag Pump Electrification (A.5)

- **Suggestions:** Committee members have requested that natural gas-powered agricultural pump engines be eligible for incentive funding for electrification, in addition to diesel-powered engines
- **Proposed Measure Updates:**
  - District staff will expand Measure A.5 (Incentive Program for Replacing Older Diesel Agricultural Irrigation Pump Engines with Electric Motors) to include the electrification of natural gas-powered ag pump engines

# Dairy Truck Replacement (A.7)

- **Suggestions:** Some Committee members commented that they did not recommend inclusion of the measure to provide incentives for the replacement of dairy trucks with zero or near-zero emission trucks (allocated funding of \$2,000,000)
- **Proposed Measure Updates:**
  - District staff are proposing to remove the dairy truck replacement measure (Measure A.7) from inclusion in the CERP



# Removal of Dairy Digester Measure (A.8)

- **Suggestions:** Some Steering Committee members have expressed lack of support for this measure to work with CDFA in supporting the installation of dairy digesters to reduce air pollutants and methane emissions, and generate renewable natural gas fuel.
- **Proposed Measure Update:**
  - District staff are proposing to remove this measure from the CERP

# Urban Greening (UG.1)

- **Suggestions:** Some Committee members recommended inclusion of funding to support urban greening, in addition to the proposed measure to work to direct existing State funding to Shafter to support urban greening
- **Proposed Measure Update:**
  - The District will work directly with Shafter residents, community groups, and other partners to support advocacy and application efforts to seek state funding for urban greening included in state budget (Natural Resources Agency, Caltrans, etc.)
  - Some available funding programs listed by California ReLeaf: <https://californiareleaf.org/resources/public-grants/>

# Commercial Charbroiling (CC.1)

- **Suggestions:** Some Steering Committee members suggested reducing the funding provided for this measure (Initial proposed funding was \$300,000 with goal of 1-2 restaurant control devices installed)
- **Proposed Measure Update:**
  - Update Measure CC.1 (Commercial Charbroiling) based on comments received
  - Goal of 1 restaurant; \$150,000 funding allocation

# School Filtration Systems (SC.1)

- **Suggestions:** Many Committee members have commented that they would recommend increased funding for this measure.
- **Proposed Measure Update:**
  - Increased funding to support pilot program for local schools to install HVAC filtration systems with a MERV rating of 14 or greater
  - Based on programs in other regions, ~\$25,000 per school
  - Funding proposed to be increased from \$100,000 up to \$250,000 to fund upgrades at up to all schools in community

# Next Steps: CERP Development

Date	Details
Monday, August 26	<b>Community Steering Committee (CSC) Meeting</b>
Wednesday, August 28	<ul style="list-style-type: none"> <li>Public Workshop to discuss both Valley CERPs at District Offices in Bakersfield, Fresno, and Modesto (CSC members and public welcome and encouraged to attend!)</li> <li><b>Comments on initial Draft CERP due for consideration in revised Draft</b></li> </ul>
Monday, September 9	<b>CSC Meeting (review updated CERP, prep for Governing Board meeting)</b>
Thursday, September 12	Proposed CERP Published (1-week prior to Governing Board meeting)
Thursday, September 19	District Governing Board meeting to adopt proposed CERPs
<b>October/November</b>	<b>CARB Staff to co-host CSC meeting</b>
February	CARB Governing Board meeting in Shafter to adopt Shafter and SC Fresno CERPs
<b>Ongoing</b>	<b>CSC meetings to review and discuss CERP implementation</b>

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