

Summary Sheet: Proposed emission reduction and exposure reduction strategies for the Shafter Community Steering Committee feedback

August 5, 2019

Measure #	Implementing Agency	Draft Measure	Estimated Lifetime Emissions Reductions (tons)			# of Units	Type of Unit	Incentive Funding
			PM2.5	NOx	Toxics			
Land Use /Urban Sources								
SD.1	PUC	Seek incentives for local businesses and homeowners to install solar power and energy storage	*	*	*	TBD	TBD	TBD
CC.1	SJVAPCD	Incentives to reduce PM from commercial underfired charbroilers	TBD		x	2	Control Systems	\$ 300,000.00
LU.1	SJVAPCD, City	New Construction: Provide assistance during the CEQA process	*	*	*			
LU.2	SJVAPCD, City	Land Use/Sustainable Development: Implement Projects that Reduce VMT	*	*	x			
LU.3	SJVAPCD, City	Land Use: Support Planning and Development of Clean Fueling Infrastructure: Alternative Fuel Fueling Station	*	*	x	1	Alternative Fueling Station	\$ 1,000,000.00
LU.4	CARB, HSRA	Construction Emissions: High Speed Rail Construction	TBD	TBD	TBD	TBD	TBD	
RD.1	City, CalTrans	Road Dust: Evaluate increasing frequency of street sweeping	*					
RD.2	City, COGs, County	Road Dust: Road paving and sidewalk installations	*					
LG.1	SJVAPCD	Provide Enhanced Incentives for Replacement of Residential Lawn and Garden Equipment (Free for Shafter Residents)	TBD	TBD	x	280	Lawn & Garden Units	\$ 100,000.00
LG.2	SJVAPCD	Provide Enhanced Outreach and Access to Incentives for Replacement of Commercial Lawn and Garden Equipment	TBD	TBD	x	30	Lawn & Garden Units	\$ 40,000.00
PF.1	SJVAPCD	Enhance Outreach and Access to Incentive Funding for Public Fleet Vehicles	TBD	TBD	TBD	TBD	Vehicles	\$ 100,000.00
Older/High Polluting Passenger Cars								
C.1	SJVAPCD	Host Tune-In Tune-Up Events within Community	*	4.6	x	500	Vehicle Repairs	\$ 400,000.00
C.2	SJVAPCD	Incentive Program for the Replacement of Passenger Vehicles with Battery Electric or Plug-in Hybrid Vehicles	0.03	1.08	x	100	Clean-air Vehicles	\$ 1,950,000.00
C.3	SJVAPCD	Incentive Program for Installation of EV Charging Infrastructure	*	*	*	17	EV Chargers	\$ 100,000.00
C.4	SJVAPCD	Increased Educational Training for EV Mechanics	*	*	*	2	Training Events	\$ 30,000.00
C.5	SJVAPCD	Incentive Program for Launch of Car Share Program for Community	TBD	TBD	x	1	Car Share Program	\$ 250,000.00
C.6	SJVAPCD	Community EV "Test Drive" Program	*	*	*	1	EV Test Drive Program	\$ 200,000.00
Residential Burning								
RB.1	SJVAPCD	Provide Enhanced Incentives to Replace Wood Burning Devices	98	*	x	200	Devices	\$ 600,000.00
RB.2	SJVAPCD	Educate Public About Harmful Impacts of Wood Burning	*	*	*			
RB.3	SJVAPCD	Enhanced Enforcement of Wood Burning Curtailments	*	*	*			
RB.4	SJVAPCD	Outreach to Reduce Illegal Activity	*	*	*			
RB.5	SJVAPCD	Enhanced Enforcement to Reduce Illegal Burning of Residential Waste	*	*	*			
Heavy Duty Mobile Sources								
HD.1	SJVAPCD	Provide Enhanced Incentive Funding for Heavy Duty Truck Replacement with Zero and Near-Zero Emission Technology	196.6	0.54	x	60	Trucks	\$ 6,000,000.00
HD.2	SJVAPCD	Deployment of Zero Emission Yard Trucks and Truck Refrigeration Units (TRUs)	5.97	0.09	x	30	Yard Trucks or TRUs	\$ 4,000,000.00
HD.3	CARB, SJVAPCD	Enhanced Enforcement of Statewide Anti-Idling Regulation	*	*	*			
HD.4	SJVAPCD	Incentive Program for Replacing Older Diesel School Buses with Zero or Near-Zero Emission Technology	0.26	2.6	x	8	School Buses	\$ 3,200,000.00
HD.5	SJVAPCD	Incentive Program for Transit Bus Replacement for Dial-a-Ride	TBD	TBD	x	TBD	Electric Transit Vehicles	\$ 400,000.00

HD.6	SJVAPCD	Incentive Program for Replacing Older Diesel Locomotives with New Clean-Engine Technology	2.8	126	x	2	Locomotives	\$ 5,200,000.00
HD.7	SJVAPCD	Incentives for Replacing Older Diesel Railcar Movers and Switchers with New Clean-Engine Technology	1.5	57	x	3	Switcher Locomotives	\$ 4,100,000.00
Industrial Sources								
IS.1	SJVAPCD	Flares-Amend Rule 4311		1.5/year	x			
IS.2	SJVAPCD	Evaluate feasibility of funding further emissions reductions from oil and gas production operations	TBD	TBD	TBD	TBD	TBD	TBD
IS.3	SJVAPCD	Enhanced Inspection Frequency	*	*	*			
IS.4	SJVAPCD	Pilot Training Program for Conducting Self-Inspections at Gas Stations	*	*	*			
IS.5	SJVAPCD	Provide Incentives to Install Advanced Control Technology	TBD	TBD	TBD	TBD	TBD	TBD
Agricultural Operations								
A.1	SJVAPCD	Provide Incentives for Electric Dairy Feed Mixing Equipment	18	350	x	5	Feed mix equipment sets	\$ 6,500,000.00
A.2	SJVAPCD	Provide Incentives for Low-Dust Nut Harvesters	90	42.5	x	25	Harvesters	\$ 2,500,000.00
A.3	SJVAPCD	Provide Incentives for Alternatives to Agricultural Burning (chipping/soil incorporation)	210	*	x	2000	acres	\$ 1,000,000.00
A.4	SJVAPCD	Promote Implementation of Conservation Tillage Practices	TBD	TBD	x	TBD	acres	
A.5	SJVAPCD	Provide Incentives to Replace Diesel Agricultural Pump Engines with Electric Motors	4	90	x	10	Engines	\$ 230,000.00
A.7	SJVAPCD	Provide Incentives to Replace Diesel Ag Equipment (tractors) with Cleanest Available Equipment	60	750	x	100	Tractors	\$ 5,000,000.00
A.8	SJVAPCD	Provide Incentives for the Replacement of Dairy Trucks with Zero or Near-Zero Emission Trucks	0.4	128	x	20	Trucks	\$ 2,000,000.00
A.9	SJVAPCD, CDFA, NRCS	Support dairy operations near Shafter in installing dairy digesters			x	10	Dairies	
A.10	SJVAPCD, CDFA, NRCS	Support dairy farms near Shafter in implementing Alternative Manure Management Strategies	TBD		x	10	Dairies	
A.11	CARB/DPR	Pesticide Measures (under development by CARB and DPR)			x			
Exposure Reduction Measures								
SC.1	SJVAPCD	Air Filtration Systems in Community Schools	*	*	*	TBD	Filtration Systems	\$ 100,000.00
SC.2	SJVAPCD	HAL Schools: Increase Participation	*	*	*			
VB.1	SJVAPCD, Partners	Provide Incentives for Installation of Vegetative Barriers Around/Near Sources Of Concern	*	*	*	TBD	TBD	TBD
IAQ.1	CAPK, CSD, SJVAPCD	Mitigate indoor exposure to air pollution through weatherization and enhanced energy efficiency	*	*	*			
UG.1	SJVAPCD, Partners	Increased urban greening and forestry in the community	*	*	*	1000	Trees Planted	
IR.1	SJVAPCD	Idling-Reduction Strategy: Protect Sensitive Receptors	*	*	*			
O.1	SJVAPCD	Outreach: Community Air Quality Outreach Strategy	*	*	*			
O.2	SJVAPCD	Outreach: Sharing Clean Air Efforts and How Communities Can Get Involved	*	*	*			
TOTALS			590	1552				\$ 44,700,000.00

* = emissions and/or exposure reductions from this measure are expected, but will not be a quantifiable target

x = measure will result in reduction of toxic air contaminants

TBD = To Be Determined