

Summary Sheet: Proposed emission reduction and exposure reduction strategies for the Shafter Community Steering Committee Committee's consideration and comment
July 22, 2019

Draft Measure	Emissions Reductions (tons)			# of Units	Type of Unit	Incentive Funding
	PM2.5	NOx	Toxics			
Agricultural Operations						
Provide Incentives for Electric Dairy Feed Mixing Equipment	18	350	x	5	Feed mix equipment sets	\$ 6,500,000.00
Provide Incentives for Low-Dust Nut Harvesters	90	42.5	x	25	Harvesters	\$ 2,500,000.00
Provide Incentives for Alternatives to Agricultural Burning (chipping/soil incorporation)	103	*	x	950	acres	\$ 500,000.00
Promote Implementation of Conservation Tillage Practices	TBD	TBD	x	TBD	acres	
Provide Incentives to Replace Diesel Agricultural Pump Engines with Electric Motors	4	90	x	10	Engines	\$ 230,000.00
Work with PUC & Utilities to Develop Preferred Utility Rate Structure for Electric Ag Pump Motors	*	*	*			
Provide Incentives to Replace Diesel Ag Equipment (tractors) with Cleanest Available Equipment	60	750	x	100	Tractors	\$ 5,000,000.00
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
Support dairy operations near Shafter in installing dairy digesters			x	10	Dairies	
Support dairy farms near Shafter in implementing Alternative Manure Management Strategies	TBD		x	10	Dairies	
Pesticides: Reduce exposure to 1,3- Dichloropropene (1,3-D)			x			
Heavy Duty Mobile Sources						
Provide Enhanced Incentive Funding for Zero and Near-Zero Emission Technology	196.6	0.54	x	60	Trucks	\$ 6,000,000.00
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
Measures to Reduce Idling: Charging Plugs for Trucks	0.1	6.26	x	20	Charging plugs	\$ 60,000.00
Implement Pilot Incentive Program to Provide Truck Emissions Repairs	TBD	TBD	TBD	6	Truck Repairs	\$ 50,000.00
Enhanced Enforcement of Statewide Anti-Idling Regulation	*	*	*			
Enhance Outreach and Access to Incentive Funding for New School Buses	0.52	5.2	x	4	School Buses	\$ 1,600,000.00
Incentive Program for Transit Bus Replacement	TBD	TBD	x	TBD	Transit Buses	TBD
Incentives for Locomotives	2.8	126	x	2	Locomotives	\$ 5,200,000.00
Incentives for Railcar Movers/Switchers	1.5	57	x	3	Switcher Locomotives	\$ 4,100,000.00
Older/High Polluting Passenger Cars						
Host Tune-In Tune-Up Events within Community	*	4.6	x	500	Vehicle Repairs	\$ 400,000.00
Enhanced Access/Outreach to Incentives through Drive Clean	0.03	0.9	x	100	Clean-air Vehicles	\$ 725,000.00
Incentives for EV Infrastructure	*	*	*	17	EV Chargers	\$ 100,000.00
Increased Educational Training for EV Mechanics	*	*	*	2	Training Events	\$ 30,000.00
Ride Share Programs for Community	TBD	TBD	x	TBD	Ride Share Programs	\$ 250,000.00
Industrial Sources						
Flares-Amend Rule 4311		1.5/year	x			
Evaluate feasibility of funding further emissions reductions from oil and gas production operations	TBD	TBD	TBD	TBD	TBD	TBD
Pilot Training Program for Conducting Self-Inspections at Gas Stations	*	*	*			
Enhanced Inspection Frequency	*	*	*			
Provide Incentives to Install Advanced Control Technology	TBD	TBD	TBD	TBD	TBD	TBD
Residential Burning						
Provide Enhanced Incentives to Replace Wood Burning Devices	98	*	x	200	Devices	\$ 600,000.00
Educate Public About Harmful Impacts of Wood Burning	*	*	*			

Enhanced Enforcement of Wood Burning Curtailments	*	*	*			
Outreach to Reduce Illegal Activity	*	*	*			
Enhanced Enforcement to Reduce Illegal Burning of Residential Waste	*	*	*			
Land Use and Urban Sources						
Seek incentives for local businesses and homeowners to install solar power and energy storage	*	*	*	TBD	TBD	TBD
Incentives to reduce PM from commercial underfired charbroilers	1/yr		x	2	Control Systems	\$ 300,000.00
Land Use/Sustainable Development: Implement Projects that Reduce VMT	*	*	x			
Land Use: Support Planning and Development of Clean Fueling Infrastructure: EV Charging Stations	*	*	x	10	EV Chargers	\$ 500,000.00
Land Use: Support Planning and Development of Clean Fueling Infrastructure: Alternative Fuel Fueling Station	*	*	x	1	Station	\$ 1,000,000.00
New Construction: Provide assistance during the CEQA process	*	*	*			
Road Dust: Evaluate increasing frequency of street sweeping	*					
Road Dust: Evaluate feasibility of road paving improvements	*					
Provide Enhanced Incentives for Replacement of Residential Lawn and Garden Equipment	TBD	TBD	x	280	Lawn & Garden Units	\$ 100,000.00
Provide Enhanced Incentives for Replacement of Commercial Lawn and Garden Equipment	TBD	TBD	x	30	Lawn & Garden Units	\$ 40,000.00
Enhance Outreach and Access to Incentive Funding for Public Fleet Vehicles	TBD	TBD	TBD	TBD	Vehicles	\$ 500,000.00
Exposure Reduction Measures						
HAL Schools: Increase Participation	*	*	*			
Air Filtration Systems in Community Schools	*	*	*	TBD	Filtration Systems	\$ 100,000.00
Mitigate indoor exposure to air pollution through weatherization and enhanced energy efficiency	*	*	*			
Mitigate indoor exposure to air pollution through education	*	*	*			
Identify opportunities for increased urban greening and forestry in the community	*	*	*	TBD	Trees Planted	
Provide Incentives for Installation of Vegetative Barriers Around/Near Sources Of Concern	*	*	*	TBD	TBD	TBD
Idling-Reduction Strategy: Protect Sensitive Receptors	*	*	*			
Outreach: Community Air Quality Outreach Strategy	*	*	*			
Outreach: Sharing Clean Air Efforts and How Communities Can Get Involved	*	*	*			

* = 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