

MTERA Priority Climate Action Plan: Priority GHG Reduction Measures

GOAL	STRATEGY	BASELINE EMISSIONS	REDUCTION MEASURE	MEASURE DESCRIPTION	TOTAL POTENTIAL GHG REDUCTION ACROSS ALL TRIBES
REDUCE EMISSIONS FROM ENERGY GENERATION	Renewable Energy Development	8%	Install residential single-family renewables (PV, geothermal, wind)	80% of homes install a 4kW solar array	13%
				30% of homes install 4kw wind turbine,	
				30% of homes install geothermal heat pumps	
		3%	Install multifamily facility-scale renewables (PV, geothermal, wind)	75% of MF buildings install a 50kW solar array,	5.1%
				30% of MF buildings install 50kW wind turbine,	
				30% of MF buildings install geothermal heat pumps	
	17%	Install commercial facility-scale renewables (PV, geothermal, wind)	60% of commercial buildings (765) install a 50kW solar array,	11%	
			30% of commercial buildings (765) install 50kW turbine,		
			30% of commercial buildings (765) install geothermal heat pumps		
	29%	Implement community-scale renewables.	(20) 1 MW solar PV systems	15%	
(20) 1 MW wind turbines					
(5) 1 MW hydropower systems					
29%	Implement utility-scale renewables	(3) 30 MW solar farms	52%		
		(3) 25 MW wind farms			
Energy Resilience	29%	Install building-level solar & storage	(40) 1MW solar systems each w/4hr storage	8%	
		Develop clean energy microgrids	(20) 10 MW solar systems each w/4hr storage	38%	
REDUCE ENERGY CONSUMPTION FROM BUILDINGS (COMMERCIAL & RESIDENTIAL).	Building Retrofits & Energy Conservation Measures	16%	Electrify heating equipment.	60% of all buildings retrofit to heat pumps	8%
		1%	Install high-efficiency appliances, low-flow fixtures for homes & residences	60% of homes & MF buildings install low-flow fixtures	0.8%
				60% of residential buildings and homes upgrade appliances (air conditioning, dishwashers, refrigerators, and clothes washers/dryers)	
		5%	Install weatherization - insulation & weatherstripping	60% of homes & MF buildings implement air sealing & insulation	6%
				60% of commercial buildings install roof & wall insulation, window films	
	7%	Retrofit interior lighting to LEDs	100% of interior & exterior lighting of all buildings to LEDs	2%	
4%	Install smart thermostats	60% of all buildings install smart thermostats	2%		
New Building Standards	4%	Adopt green building standards for major renovations	15% of buildings undergo major renovation projects that adopt state Green Building Standards	1.0%	
REDUCE EMISSIONS FROM VEHICLES	Mode-shift	44%	Increase transit service	10% mode shift to bus	1.4%
		44%	Influence ride sharing	50% mode shift to ride share	1.1%
		44%	Develop active transport network	30% mode shift from single occupancy vehicles to biking/walking	1.3%
	Zero Emissions Single-occupancy vehicles	44%	Electrify SOV vehicles & provide charging infrastructure / hydrogen fuel cells	Assumes 80% of single occupancy vehicles are converted to EVs	16%
	Low or Zero Emissions Bus Fleet	1%	Convert bus fleet to electricity, hydrogen, or lower-emission fuels	Assumes half of buses converted to lower-emission fuels (propane, LNG, CNG, or biodiesel) and half converted to electricity or hydrogen	0.50%
ENVIRONMENTAL MANAGEMENT & PLANNING TECHNIQUES	Land Use	100%	Sequester carbon through plants	100,000 trees planted	0.32%
				100,000 shrubs planted	
				1 million sf of grassland restored	
100%	Develop green infrastructure	800,000 sf of bioswales developed	0.01%		
46%	Implement responsible development & zoning policies	20% of population affected by responsible development	1.0%		

The Priority Greenhouse Gas Reduction Measures stated on this list will be include in the Priority Climate Action Plan (PCAP) that MTERA intends to submit to **support Tribal eligibility for both the General competition and Tribes & Territories competition.** Through the CPRG Implementation Grants (both competitions), **all EPA Region 5 Tribes can apply for funds to implement projects associated with MTERA PCAP measures** detailed in the column titled 'Reduction Measure' on this document.