

DRAFT Goal	DRAFT Strategy	County Operations or Community?	POTENTIAL Measure(s) of Effectiveness	Lead County Department(s)	POTENTIAL Partners	Co-Benefits	Notes	Estimated Costs
<p>Note: the Climate Action Plan pertains to County operations and County facilities, and the unincorporated communities in the County. Cities develop their own Climate Action Plans, at their discretion.</p>								
<p>Clean and Efficient Built Environment <i>Buildings in Contra Costa County run on clean energy</i></p>	Continue energy efficiency programs	Community	<ul style="list-style-type: none"> · # housing units with upgrades through efficiency programs · # housing units in frontline communities with upgrades through efficiency programs · # commercial buildings with upgrades · # commercial buildings in frontline communities with upgrades · Projected savings associated with retrofits 	Conservation and Development	BayREN MCE PG&E			
	Continue to grow the existing low-income weatherization program, in collaboration with the Health Department	Community	<ul style="list-style-type: none"> · # homes weatherized each year · # homes in frontline communities weatherized each year · Track positive residential health outcomes associated with retrofit work 	Conservation and Development Health Services	MCE	Health Bill Savings		
	Encourage business and residential participation in demand response programs	Community	<ul style="list-style-type: none"> · # of points of active demand response in unincorporated County · # of points of active demand response in frontline communities in unincorporated County · Annual hours of participation 	Conservation and Development	PG&E (?)	Resilience		
	Electrify new construction	Community County Operations	<ul style="list-style-type: none"> · Adopt electrification reach codes · Provide fee waivers or expedited processing for all-electric homes and commercial facilities, including major renovations · Streamlined permitting process · Updated building standards for construction in County facilities · Lower the CEQA EIR threshold of significance for CO2 emissions for new program and project EIRs to encourage all-electric buildings served by renewables. · Include embodied greenhouse gas emissions of building materials and construction in EIR evaluation of projects · Require construction contracts to include no-waste, clean equipment, and related provisions. 	Conservation and Development Public Works				

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Clean and Efficient Built Environment <i>Buildings in Contra Costa County run on clean energy</i>	Electrify existing buildings	Community County Operations	<ul style="list-style-type: none"> · Promote heat pumps - for space and water heating - through education and training for contractors, County and city staff, and the public, highlighting the benefits, challenges, and permitting requirements for installing this technology · Use rebates, fee waivers, and/or expedited permitting to create incentives for heat pumps - for space and water heating - in residential and commercial sectors · # electrification retrofits on municipal facilities 	Conservation and Development Public Works	BayREN Contractors			
	Continue to conduct energy audits of County facilities, prioritize investments, and upgrade facilities to save energy	County Operations	<ul style="list-style-type: none"> · # of projects in County facilities that with energy efficiency upgrades · projected energy and bill savings associated with retrofits 	Public Works	Energy Service Cos.			
	Implement demand response technology to make tolerant loads responsive to grid conditions	County Operations	<ul style="list-style-type: none"> · # of points of demand response in County buildings Annual hours of participation 	Public Works				
	Implement energy saving practices	County Operations	<ul style="list-style-type: none"> · Annual reporting of new energy saving practices · Estimate of energy and bill savings per practice 	County Administrator Public Works				

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Carbon Free Energy <i>Contra Costa County uses clean energy in every sector</i>	Opt-up County accounts in MCE territory to Deep Green by 2022	County Operations	· # and percent of County accounts enrolled in MCE Deep Green	County Administrator Public Works				
	Encourage residents and businesses in unincorporated County to choose MCE Deep Green	Community	· # of accounts enrolled in MCE Deep Green · # of accounts in frontline communities enrolled in MCE Deep Green					
	Encourage MCE to increase the carbon-free and renewable content of its default product.	Community	· Percent of MCE default product comprised of carbon-free and renewable electricity sources.	Conservation and Development Board of Supervisors	MCE			
	Switch County facilities from natural gas to carbon-free electricity (space heating and water heating) no later than 2030.	County Operations	· # of retrofits/year · fraction of gas utility annual consumption relative to electricity annual consumption	Public Works				
	Encourage all residential and business natural gas uses to switch to renewable electricity	Community	· # retrofits/year · # retrofits/year in frontline communities · fraction of gas utility annual consumption relative to electricity annual consumption	Conservation and Development	PG&E MCE BayREN and other rebate programs			
	Increase amount of renewable energy generated in unincorporated County, including solar and wind.	Community	· MW rooftop and parking lot solar installed in unincorporated County · MW ground mounted solar installed in unincorporated County · MW wind installed in unincorporated County	Conservation and Development	MCE Renewable energy developers			
	Collaborate with regional partners to provide outreach and education to property owners on financing programs for renewable energy systems and battery installations (including how to reduce interest rates for PACE, on-bill financing, public banking)	Community	· Availability of low-interest credit for efficiency and electrification retrofits	Conservation and Development County Administrator Treasurer?	PACE providers MCE PG&E Lenders BayREN	Bill Savings		

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Resilient Communities <i>Contra Costa County uses natural systems and open space to increase resilience to disasters and foster community health</i>	Increase urban canopy	Community County Operations	???	Conservation and Development		Combat urban heat islands	see City of Berkeley model	
	Foster urban agriculture by increasing access to fresh foods, urban gardening, and eliminating food deserts	Community	<ul style="list-style-type: none"> · Reduce # County residents living with Low Food Access (a person lives more than 1/2 mile from the nearest store that can provide a full, balanced diet on a regular basis, and their income is below the poverty level [need to define poverty level]) · # regular farmers markets in frontline communities · County policy designating parcels for urban gardens 	Conservation and Development Health Department	Chambers of commerce Contra Costa Resource Conservation District (?)	Health		
	Increase access to parks and open space	Community	<ul style="list-style-type: none"> · # communities located within a ten-minute walk of a park or other green space · # frontline communities located within a ten-minute walk of a park or other green space 	Conservation and Development Health Department	East Bay Regional Parks District San Francisco Bay Trail School districts			
	Deploy microgrids in critical facilities and/or activity centers	Community County Operations	<ul style="list-style-type: none"> · Complete research and feasibility analysis for a microgrid for renewable backup power for County buildings and critical facilities, including fully connected and islandable solar + storage 	Conservation and Development Public Works				
	Increase adoption of grid-interactive technologies	Community County Operations	<ul style="list-style-type: none"> · Create incentives for use of smart appliances (smart thermostats, heat pumps with controls, etc.) that can be paired with demand response programs to save energy during peak periods/events. · Install smart appliances in municipal facilities and participate in utility demand response programs 	Conservation and Development Public Works	MCE PG&E BayREN?			
	Address heat islands		<ul style="list-style-type: none"> · # native trees planted in unincorporated County - consider goal of 1 million trees by 2030, in line with Trillion Tree Challenge · Acres of native grasses in production · Policies to encourage white rooftops, streets · Drought tolerant landscaping 	Conservation and Development Public Works				

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Resilient Communities <i>Contra Costa County uses natural systems and open space to increase resilience to disasters and foster community health</i>	Increase amount of green infrastructure in unincorporated County	County Operations Community	<ul style="list-style-type: none"> · # acres of green infrastructure in unincorporated County, particularly areas identified in Adapting to Rising Tides studies · # green infrastructure projects at County facilities, as identified in Green Infrastructure Plan · County policy establishing green benefits districts · # green benefits districts 	Public Works County Administrator				
	Increase use of pervious paving in unincorporated County and at County facilities	County Operations	<ul style="list-style-type: none"> · Miles of pervious paving installed by Public Works · # of parking lots with permeable pavers 	Public Works				
	Support and/or partner with environmental education and justice nonprofits in unincorporated County	Community	???	Conservation and Development Public Works Library				

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No-Waste Contra Costa <i>Contra Costa County generates no more solid waste than 2.25 pounds per person per day (PPD)</i>	Promote repair and re-use before disposal	County Operations	Permanent fix-it clinic program at County libraries	Conservation and Development Library				
	Reduce food waste and hunger	Community					See Cleveland, OH CAP	
	Support 4Rs education (reduce, reuse, recycle, rot)	Community	<ul style="list-style-type: none"> · # recycling/reuse programs offered in Contra Costa County · Participation rates in recycling/reuse programs 		Library County Office of Education Green Business Program Community College District Solid waste haulers		Not just k-12, but all residents, businesses, pre-K, and college education See Recycle Smart School Recycling programs; Wastebusters and school zero lunch	
	Reduce emissions from landfills	Community	<ul style="list-style-type: none"> · Annually verify compliance with the California Air Resources Board's landfill methane control measures · Request that landfill operators consider implementing additional reduction actions including, but not limited to: <ul style="list-style-type: none"> · Reducing landfilled materials with high methane-generated potential · Reducing idling time for diesel equipment · Encouraging adequate maintenance of rolling stock · Establishing standards beyond those required by regulation for landfill gas collection system leak detection and prevention · # and % of vehicles operating on electricity, as reported by landfill operators 	Conservation and Development	Solid waste haulers Landfill operators			
	Implement commercial waste to energy programs	Community	<ul style="list-style-type: none"> · # commercial waste to energy programs operated by waste, water, and wastewater providers in the County 				See RecycleSmart food recycling project	
	Integrate workforce development as co-benefit	Community						

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No-Waste Contra Costa <i>Contra Costa County generates no more solid waste than 2.25 pounds per person per day (PPD)</i>	Reduce and eventually ban single-use plastics and other hard-to-recycle items / extended producer responsibility	County Operations Community	· Administrative bulletin banning single-use plastics and other hard-to-recycle items in County facilities · Ordinance banning sale of single-use plastics and other hard-to-recycle items in unincorporated County	Conservation and Development Public Works			See Cleveland, OH CAP	
	Support and create incentives to implement State solid waste regulations	??		Conservation and Development				
	Increase participation in Recycling Market Development Zone program	Community	· # businesses Countywide (?) that participate in RMDZ program	Conservation and Development	Green Business Program CalRecycle			
	Strengthen County purchasing policy to focus on life-cycle impacts of goods and services purchased by the County	County Operations	· Adopt and implement updated County purchasing policy	Public Works County Administrator	Green Business Program			
	All County events follow no-waste principles	County Operations	· Adopt and implement Administrative Bulletin on no-waste events	County Administrator Public Works				
	3-stream recycling at all County facilities	County Operations	· Number and percentage of County buildings with 3-stream recycling · Diversion rate from County buildings	Public Works				
	Increase amount of composted material created by County residents and businesses	Community	??	Conservation and Development	Waste management companies Other?			
	Increase amount of composted material created by County facilities	County Operations		Public Works	Waste management companies			

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Reduce Water Use and Increase Drought Resilience <i>Contra Costa County uses less water and communities are prepared for drought</i>	Promote gray water/rainwater systems, including at County facilities	Community County Operations	· reduction in overall water use as reported by water companies · reduction in water use at County facilities · # gray water systems installed at County facilities	Conservation and Development (?) Public Works	East Bay Municipal Utility District Contra Costa Waste District Other water purveyors			
	Reduce energy costs of water by installing solar water heaters	Community County Operations	· [how to measure solar water heaters installed by residents and businesses?] · # solar water heaters installed at County facilities · Percentage of County facilities with solar water heaters	Public Works	MCE Water purveyors			
	Increase acreage of drought tolerant landscaping	Community	[how to measure?]	Conservation and Development				
	Increase acreage of drought tolerant landscaping, including green infrastructure, at County facilities	County Operations	· # drought tolerant projects at County facilities · # green infrastructure projects at County facilities	Public Works County Administrator				
	Water conservation education	Community	· # workshops hosted by _____	Conservation and Development?	East Bay Municipal Utility District Contra Costa Waste District Other water purveyors			

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Clean Transportation Network and Infrastructure <i>Contra Costa County's transportation system facilitates walking, biking, and transit. If residents and workers are driving, they are in electric vehicles.</i>	Integrate jobs, housing, and transportation	Community		Conservation and Development		Quality of life	See San Francisco	
	Attract good quality jobs	Community		Conservation and Development	Workforce Development Board			
	Increase transit and shift toward alternative modes of transportation	Community	· # multi-modal transportation corridors	Conservation and Development Public Works	Contra Costa Transportation Authority Transit providers	Health Quality of life	See San Diego County	
	Reduce vehicle miles traveled	Community		Conservation and Development	Contra Costa Transportation Authority Transit providers		See San Diego County	
	Increase telecommuting (particularly for County employees)	Community County Operations	· Updated County Administrative Bulletin on telecommuting · Number of County departments and employees participating in telecommuting (where job responsibilities allow)	County Administrator				
	By 2030, 100% of County Fleet is all-electric	County Operations	· # EVs purchased annually · Percentage of fleet that is all-electric	Public Works				
	Implement adequate EV charging infrastructure for County fleet and employee charging	County Operations	· # installed Level 2 and Level 3 fast charging stations · Survey data of employee charging needs	Public Works				
	Encourage electric vehicle adoption by County residents and businesses	Community	· # of EVs registered in unincorporated County	Conservation and Development	Contra Costa Transportation Authority DMV records CA rebate data (where available)			
	Encourage adequate EV charging infrastructure	Community	· # of installed Level 2 and Level 3 fast charging station for both private and public locations	Conservation and Development	Contra Costa Transportation Authority MCE, PG&E rebate programs			

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Clean Transportation Network and Infrastructure <i>Contra Costa County's transportation system facilitates walking, biking, and transit. If residents and workers are driving, they are in electric vehicles.</i>	Reduce vehicle miles traveled	County Operations	<ul style="list-style-type: none"> · # online meetings or conference calls held in lieu of in person meetings · Administrative Bulletin supporting videoconferencing and conference calls · Ridership on shuttles, other forms of transportation from BART to County offices and other large employment centers 	CAO Conservation and Development	Partner agencies like CCTA, MCE, cities			

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Climate Equity <i>The CAP will mitigate environmental factors leading to health disparities, promote safe and livable communities throughout Contra Costa County, and promote investments that improve neighborhood accessibility</i>	Evaluate each CAP strategy for equitable benefits for frontline communities.			Conservation and Development Health				
	Adopt an equity rubric that the County will use for Countywide projects and initiatives.			County Administrator				
	Implement best practices in Environmental, Social, and Governance considerations as CAP is implemented			County Administrator Conservation and Development Public Works				
	Establish a cross-departmental task force that collaborates on equity and climate issues.			County Administrator Health Conservation and Development				

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	Zero Waste Food Events (such as the "taste of...")							
	Shoreline adaptation to sea level rise using nature-based infrastructure							
	Easy way to report sprinklers that are watering pavement instead of grass, etc.							
	Pervious paving							
	Awareness around Local Agency Formation Commission (LAFCO)							
	Horizontal levees							
	Adjust air conditioning in County facilities							
	Outreach with fact, outreach to kids/adolescents							
	Public/private partnerships to implement and maintain street tree planting, green infrastructure, and solar							
	Restore native grasses							
	Restore soils on degraded land							
	Consider watersheds, restore riparian health							
	Develop land regulations for creeks in backyards; encourage private property owners to become better stewards of their creek properties							
	Walk uptown to go to dinner							
	Ride bike for errands							
	Community farms							
	Make County building standard LEED gold (currently it's LEED silver)							
	Carbon farming on public land							
	Large-scale rainwater collection							
	Fund recycling processing in County							
	Reduce with a goal of banning herbicide use to control weeds along roadways		Steam treatment Mowing					

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