

CONTRA COSTA COUNTY CLIMATE ACTION PLAN IMPLEMENTATION GOALS

Measures	Policy Language	2020 GHG Reductions (MTCO ₂ e)	2020 Performance Targets		Responsible Agencies	Lead Staff	Time Frame	Action Items Identified in CAP	Progress to Date
EE 3	Provide education and outreach highlighting the benefits of energy conservation.	430	2,900	Participating homes	Conservation & Development	Justin Sullivan	Near-Term (by 2018)	<ul style="list-style-type: none"> Engage with PG&E to provide multilingual and culturally relevant educational material to residents and business Work with the Bay Area Green Business Program to highlight examples of energy-efficient local business 	<ul style="list-style-type: none"> Through the East Bay Energy Watch the County engages with PG&E on educational materials. The County also has initiated collaboration with MCE on outreach materials. As of November 2017, there are 329 certified green businesses in Contra Costa Green Business Program (CCGBP). Since August 2017, CCGBP has referred 4 businesses to East Bay Energy Watch (EBEW) for energy audits. Starting in January 2018, all businesses, regardless of business or facility size, pursuing certification/recertification will also be referred to PG&E.
			60	Participating businesses	Health Services	Susan Psara			
EE 4	Reduce urban heat islands through vegetation management and cool surfaces.	20	1,790	Existing homes completing cool roof retrofits	Public Works	Aruna Bhat	Near-Term (by 2018)	<ul style="list-style-type: none"> To increase use of higher-albedo materials Encourage developments with parking lot areas to shade these with vegetation or solar panels Promote the use of low-impact development (LID) strategy and reduction in impervious surface area of new development Increase use of cool roof materials on new and existing buildings Support programs to plant and maintain trees. 	<ul style="list-style-type: none"> All applications for building permits must meet current building code requirements. Residential Cool Roof installations by year: 2010-54, 2011-46, 2012-31, 2013-10, 2014-44, 2015-73, 2016-226, 2017-335 to date. Commercial Cool Roof installations by date: 2014-2, 2016-3, and 2017-2 to date.
			9	Existing businesses completing cool roof retrofits					
RE 2	Promote installation of alternative energy facilities on public land.	270	1	MW of solar installed at public facilities in the unincorporated area	Conservation & Development Public Works	Brian Balbas	Near-Term (by 2018)	<ul style="list-style-type: none"> Continue to install alternative energy facilities on public buildings and land in unincorporated county Continue to participate in Regional Renewable Energy Procurement Project or similar bulk purchasing programs Work with East Bay Municipal Utilities District and other wastewater processors to install cogeneration infrastructure treatment facilities 	<ul style="list-style-type: none"> Current installed capacity on County facilities is 4.38 MW. Not aware that the County has participated in regional bulk purchases for renewable energy. Some wastewater processors and solid waste haulers are pursuing cogeneration projects.
LUT 3	Reduce emissions from off-road vehicles and equipment.	10	50	Lawnmowers traded in	Agriculture Conservation & Development	Matthew Slattengren Judi Kallerman	Near-Term (by 2018)	<ul style="list-style-type: none"> Work with BAAQMD to incentivize use of battery-powered lawn and garden equipment Provide support for the BAAQMD's voluntary exchange program for lawn mowers Work with BAAQMD to increase the use of alternatively fueled equipment in agricultural operations Consider an amendment to County Building Code to prohibit unnecessary idling of off-road and heavy equipment 	<ul style="list-style-type: none"> The Agriculture Department has authority only over the use of pesticides, not the equipment in use. Prohibiting idling of off-road and heavy equipment right now occurs on a case-by-case basis.
GO 1	Save energy used for public lighting.	580	7,210	Number of lightbulbs replaced with LED bulbs	Public Works	Joe Yee	Near-Term (by 2018)	Complete LED upgrade of traffic signals, street lighting, and other public lighting located in the unincorporated area of the County.	<ul style="list-style-type: none"> The County owns 1,800 streetlights, all of which have been converted to LED. PG&E owns 5,800 street lights in the unincorporated County, all of which have been converted to LED. All traffic signals in the unincorporated County have been converted to LED.

EE=Energy Efficiency; RE=Renewable Energy; LUT=Land Use and Transportation;
W= Solid Waste; WE = Water; GO = Gov't Operations.

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GO 3	Conserve water.	Supportive of Overall GHG Reductions	Supportive	n/a	Public Works	Joe Yee	Near-Term (by 2018)	Continue to install water-efficient landscaping on County properties and where possible, remove turf from County-owned facilities.	The County installed drought tolerant landscaping at the Pittsburg health clinic a couple of years ago. Based on the success of that project, the Board of Supervisors recently approved a contract for additional landscaping projects that will remove turf and replace it with drought tolerant landscapes.
EE 1	Provide opportunities for residential buildings to become more energy efficient.	2,140	3000	Single-family homes receiving basic retrofits	Conservation & Development	Justin Sullivan Demian Hardman	Mid-Term (by 2020)	<ul style="list-style-type: none"> Continue to expand participation in energy efficiency and energy efficiency rebate programs Collaborate with local organizations and PG&E Increase participation in low-income weatherization program Identify disadvantaged individuals to increase participation Work with PG&E to promote appliance rebate program; participate in Property Assessed Clean Energy (PACE) programs. 	<ul style="list-style-type: none"> Total GHG reductions to date = 1,211 MTCO. 298 in 2015, 344 in 2016, 458 to date in 2017. Coordinated and implemented annual Single-Family homeowner workshop with an average attendance of 50-70 homeowners to provide information regarding home energy efficiency rebate programs. Distribute quarterly mailers to multi-family property owners regarding available energy efficiency rebate programs. Through Hazardous Materials Ombudsman, launching pilot program to enlist nurses who work with low income seniors to provide information on weatherization opportunities. Two PACE providers are operating currently in unincorporated County. Staff will ask Board for
			210	Single-family homes receiving advanced retrofits					
			700	Multi-family homes receiving retrofits					
			150	Single-family homes receiving pool pump upgrades					
			2,010	Homes receiving appliance upgrades					
EE 2	Provide opportunities for nonresidential buildings to become more energy efficient.	4,630	240	Businesses receiving retrocommissioning	Conservation & Development	Demian Hardman	Mid-Term (by 2020)	<ul style="list-style-type: none"> Continue to expand participation in energy efficiency and financing programs Provide focused outreach to local business Develop outreach materials explaining financing opportunities Identify staffing and revenue stream to develop shared landlord-tenant program Inform nonresidential business owners about savings potential from retrocommissioning, retrofits and deep retrofits Inform business community of monetary benefits with energy efficient appliances; collaborate with 4CL and PG&E to develop and implement outreach. 	<ul style="list-style-type: none"> Data on GHG reductions is not yet available; County staff is working with PG&E to obtain this information. 2000 mailers were sent to unincorporated businesses throughout the County in 2016 to educate business owners of available energy efficiency program rebates. Coordinated with Sustainable Contra Costa (non-profit) to implement a targeted door-to-door marketing campaign in specific areas requested by PG&E throughout the County.
			120	Businesses receiving standard retrofits					
			30	Businesses receiving deep retrofits					
			300	Businesses receiving appliance upgrades					
EE 5	Increase Contra Costa County's capacity for energy efficiency through financing opportunities and workforce training.	Supportive of Overall GHG Reductions	Supportive	n/a	Conservation & Development Health Services Public Works ; additional departments, depending on grant resources	Jason Crapo Jody London	Mid-Term (by 2020)	<ul style="list-style-type: none"> Monitor grants from cap-and-trade and other sources Create a framework for revenues from cap-and-trade offsets or allocations to fund energy efficiency and resource conservation programs Work with Contra Costa Community College District and Contra Costa Workforce Development Board to develop workforce training programs for green jobs 	<ul style="list-style-type: none"> Regarding financing, staff continues to monitor and pursue Cap & Trade and other funding opportunities. Opportunities from Cap and Trade have not been as robust to date anticipated. Given the recent success of the Cap and Trade auction, we expect this could change. We have received grants from other sources that allow us to pursue transportation, green infrastructure, and renewable energy projects that support the Climate Action Plan. Staff has not commenced developing a framework for revenues from Cap and Trade or other sources. Staff is developing relationships with Community College District and Workforce Development Board.
			3	New ZNE businesses	Conservation & Development	Jason Crapo	<ul style="list-style-type: none"> Identify and remove barriers to zero net energy Work with developers, property owners, and financial donors to construct and publicize example zero net energy home 	<ul style="list-style-type: none"> Staff is developing a draft ordinance that would require solar to be installed on most new residential construction. This should come to the Board of 	

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EE 6	Support the statewide transition to net zero energy construction for new residential buildings by 2020 and new nonresidential buildings by 2030.	290	12	Retrofitted ZNE homes	Public Works	Brian Balbas	Mid-Term (by 2020)	<ul style="list-style-type: none"> to construct and publicize example zero net energy home prior to adoption Provide information about zero net energy buildings at public events, on County website and in development review process, including cost effectiveness Explore making new and significantly retrofitted County buildings zero net energy 	<ul style="list-style-type: none"> construction. This should come to the Board of Supervisors in Q1 2018. As part of its new Distributed Energy Resources program, the Public Works Capital Improvement group is working to identify a project where a building undergoing significant retrofitting can be readily and lifecycle cost-effectively upgraded to Zero Net Energy (ZNE). Existing incentive funds, accrued through on-going utility rebates have been identified to fund the PV, energy-efficiency, energy storage and demand response measures needed to achieve ZNE. 																				
			1	Retrofitted ZNE businesses						RE 1	Promote installation of alternative energy facilities on homes and businesses.	8,820	50	New homes with solar arrays	Conservation & Development	Will Nelson Jason Crapo Abed Chowdhury	Mid-Term (by 2020)	<ul style="list-style-type: none"> Amend the County Zoning Code to designate areas and development standards to support small and medium sized alternative energy and energy storage installations not covered by AB2188 Train planning staff to provide guidance and information on the streamlined process and available incentives Develop standards for ministerial approval of rooftop energy systems on commercial buildings and warehouses Encourage participation in PG&E's green tariff program 	<ul style="list-style-type: none"> See EE6 re residential solar ordinance. The Board's approval of community choice energy and decision to join MCE provides added incentive for property owners to install solar resulting from MCE's more attractive net metering program. DCD continues to issue large numbers of building permits for rooftop solar on the order of 1,500 per year, well exceeding the target established in the CAP. Planning Commission is recommending to Board of Supervisors a requirement for conditional use permits for larger solar systems on commercial buildings and warehouses that would sell excess energy commercially. Utility green tariff programs are not well subscribed in California, irrespective of County actions. 	2,500	Existing homes with solar arrays	10	New businesses with solar arrays	60	Existing businesses with solar arrays	3,740	kW supplied by PG&E Green Tariff program	RE 3	Lower barriers to entry for the installation of alternative energy systems.
RE 1	Promote installation of alternative energy facilities on homes and businesses.	8,820	50	New homes with solar arrays	Conservation & Development	Will Nelson Jason Crapo Abed Chowdhury	Mid-Term (by 2020)	<ul style="list-style-type: none"> Amend the County Zoning Code to designate areas and development standards to support small and medium sized alternative energy and energy storage installations not covered by AB2188 Train planning staff to provide guidance and information on the streamlined process and available incentives Develop standards for ministerial approval of rooftop energy systems on commercial buildings and warehouses Encourage participation in PG&E's green tariff program 	<ul style="list-style-type: none"> See EE6 re residential solar ordinance. The Board's approval of community choice energy and decision to join MCE provides added incentive for property owners to install solar resulting from MCE's more attractive net metering program. DCD continues to issue large numbers of building permits for rooftop solar on the order of 1,500 per year, well exceeding the target established in the CAP. Planning Commission is recommending to Board of Supervisors a requirement for conditional use permits for larger solar systems on commercial buildings and warehouses that would sell excess energy commercially. Utility green tariff programs are not well subscribed in California, irrespective of County actions. 																				
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RE 3	Lower barriers to entry for the installation of alternative energy systems.	Supportive of Overall GHG Reductions	Supportive	n/a	Conservation & Development	??	Term (by 2020)	<ul style="list-style-type: none"> Improve participation in existing financing mechanisms Connect low-income homeowners with renewable energy rebate and financing programs Work with local government and neighboring areas to participate in solar bulk-buying program Connect business owners to finance and rebate programs Work with PG&E to identify insufficient grid capacity areas Continue exploring options for implementing Community Choice Aggregation within the unincorporated area of the County 	<ul style="list-style-type: none"> As indicated above there are two PACE programs in the unincorporated County, with a third potentially coming on board in 2018. The County is about to begin a study of renewable resource potential, and recommended changes to zoning that would facilitate installation of more renewable energy. The study will identify grid capacity constraints. The County and nine cities in 2017 decided to join the five Contra Costa cities that had already joined MCE. The new communities are expected to switch over to MCE in April and May 2018. 																				

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LUT 1	Maintain and expand access to goods, services, and other destinations through increased transportation alternatives (mobility improvements) and improved proximity (land use improvements).	910	33,630	Average countywide bike trips per weekday	Conservation & Development Health Services Public Works	John Cunningham ?? Steve Kowalewski	Mid-Term (by 2020)	<ul style="list-style-type: none"> Collaborate with local transportation, land use agencies, nonprofits and other stakeholders to expand bicycle, pedestrian and existing public transportation Assist with Safe Routes to School implementation Work with local agencies to encourage bicycle safety classes in all schools Update County road standards to accommodate all modes of transportation Identify periodic updates through the Contra Costa Transportation Authority's Countywide Bicycle and Pedestrian Plan (CBPP) and work with adjoining jurisdictions to update and implement Revise the County CEQA guidelines to reflect implementation of Senate Bill 743 Establish a 2020 mode share goal for bicycling by Board of Supervisors resolution, identify actions to reach goal, integrate into future General Plan updates and appeal other agencies to adopt same goal Identify funding sources to support increased walking and bicycling activity 	<ul style="list-style-type: none"> Collaboration is an ongoing activity pursuant to our participation in the Contra Costa Transportation Authority's Regional Transportation Planning Committees. Specifically, we have requested (and received) a grant to study the use of the Iron Horse Corridor as a "Bicycle Superhighway" and for the use with autonomous shared vehicles. Bicycle safety is done on a subregional level in cooperation with the Regional Transportation Planning Councils. A countywide proposal was proposed (by the County) during the Measure X Transportation Expenditure Plan development and received no interest. Road standards update was removed from the Board of Supervisors' Transportation, Water, and Infrastructure Committee referrals and interdepartmental working group scope of work due to the limited return on investment of the effort. CCTA is updating the CBPP right now, County staff is engaged in the process. We are awaiting final guidance from the state on SB 743; final guidelines are about a year overdue. We have, and we will continue to, encourage CCTA to include such a metric in their policies. This is an ongoing activity and we regularly apply for grant funds to meet this goal and conduct legislative advocacy to increase funding for this mode.
			4700	Annual VMT per public charging station	Conservation & Development Public Works	Jamar Stamps Joe Yee		<ul style="list-style-type: none"> As possible, include alternative-fuel use goals in franchise agreements for waste hauling and contracts with other vehicle fleets Support development of alternative-fuel and electric vehicle (EV) charging stations, including amending parking design and layout section (82-16-404) of the County Zoning Code Pursue grant funding opportunities to install public EV chargers or other alternative fuel charging stations 	<ul style="list-style-type: none"> One waste hauler has voluntarily converted fleet to compressed natural gas. Other franchise agreements will be up for renegotiation in about five years, at which time requirements for alternative fuel vehicles can be explored if haulers have not made that change already. EV provisions are located in County Code Sections 74-4.006(j) and 82-16-404(e). The County was awarded a \$91,000 "Chargel" grant
			14,220	VMT per EV	additional departments, depending on grant resources				
			4,830	Electricity use per EV					

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LUT 2	Expand the use of alternative fuels in vehicle travel.	7,630	1,790	Households with an EV			Mid-Term (by 2020)	chargers or other alternative fuel charging stations	<ul style="list-style-type: none"> The County was awarded a \$21,000 "Charge!" grant in July 2016 to install EV charging stations at certain County facilities (30 Muir Rd and 255 Glacier Dr.). Staff is currently working on implementation. Staff is in discussions with the Bay Area Air Quality Management District and may apply for another EV "Charge!" grant. County staff is working with staff from the Contra Costa Transportation Authority on an EV shared mobility readiness plan. As of November 2017, staff is looking for funding to develop the plan, developing a scope for the plan, and introducing the concept to city planners, managers, and other stakeholders. Public Works is pursuing grant funding and related to installing public EV chargers as follows: <ol style="list-style-type: none"> Initiated discussions with PG&E pertaining to the EV Charge Network program. The program requires an easement and a ten year agreement. Public Works has identified California Air Resources Board Low Carbon Fuel Standard Program (LCFS) as a source of continuing cash flow for EV chargers.
LUT 5	Provide opportunities to grow, sell, and purchase local food.	Supportive of Overall GHG Reductions	Supportive	n/a	Agriculture Conservation & Development County Administrator's Office	Matthew Slattengren Stan Muraoka	Mid-Term (by 2020)	<ul style="list-style-type: none"> Continue to support local farmers markets, community gardens, school gardens and urban agricultural practices Amend Zoning Code to allow urban agriculture in appropriate areas Amend General Plan to add policy to encourage community gardens in new residential developments Encourage partnerships between local food growers and local food retailers Encourage partnerships between local food growers and local schools, hospitals, colleges and correctional facilities Continue to discourage schools being sited in agricultural areas 	<ul style="list-style-type: none"> It is not clear who in the County has lead on supporting farmers markets, school gardens. Completed. The County Code allows "crop and tree farming" in all residential districts. Scope and approach for General Plan update will go to Board of Supervisors for approval in December 2017. It is not clear who has lead for encouraging partnerships between local food growers and retail and institutional organizations. The County continues to advocate and educate about the importance of siting schools within the urban limit line.

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W 1	Develop a waste reduction strategy to increase recycling and reuse of materials.	25,780	90,850	Tons of waste reduced	Conservation & Development	Deidra Dingman	Mid-Term (by 2020)	<ul style="list-style-type: none"> • Achieve a local 75% waste diversion rate as identified in AB 341 • Establish new and enhanced programs to collect organic material from business and residents • Increase public outreach to promote participation in existing waste diversion and prevention programs: backyard composting, grass-cycling, low-maintenance gardening programs, Bay Area Regional Outreach Campaign, Environmental Action Program for Schools • Work with owners and operators of solid waste transfer stations and landfills to establish anaerobic digesters • Update County's Source Reduction and Recycling Element, Household Hazardous Waste Element and other components to support CAP • Identify best practices to reduce waste water sludge (biosolids). 	<ol style="list-style-type: none"> 1. Based upon County's most recent Annual Report submitted to CalRecycle to demonstrate compliance with the diversion requirements in the Integrated Waste Management Act, the amount of unincorporated area waste reported to have been disposed of in landfills in 2016 equates to a diversion rate of 68%. 2. Organic waste collection services are offered to residents in all four County franchise areas (one of which includes acceptance of food waste). Organic waste collection services are offered to businesses in three of the four County franchise areas (not yet offered in Crockett, Port Costa & Tormey area). 3. Ongoing. 4. The waste hauling company providing services to most of the unincorporated areas of East County is seeking to develop preprocessing capacity necessary at the East County transfer station so that targeted organic waste stream could be processed in existing anaerobic digester located at nearby wastewater treatment facility. The company has applied for a cap and trade funded grant to help support this effort. 5. DCD updates waste diversion programs initially established in the County's Integrated Waste Management Plan (namely the Source Reduction and Recycling Element and Household Hazardous Waste Element), as circumstances warrant, using the state's mandatory annual reporting system that track local governmental waste management program implementation and overall diversion compliance. 6. Use of biosolids to help generate energy is a noteworthy element of the new proposed public-private partnership between waste management company and
W 2	Reduce fugitive methane emissions and other greenhouse gas emissions from solid waste landfills.	29,500	29,500	Increase in captured landfilled gas (MTCO ₂ e)	Conservation & Development Health Services	Deidra Dingman	Mid-Term (by 2020)	<ol style="list-style-type: none"> 1. Annually verify compliance with California Air Resource Board's landfill methane control measures 2. Request landfill operators consider additional reduction actions: reduce materials with high methane-generation potential, reduce idling time for diesel equipment, encourage adequate maintenance of rolling stock, establish standards beyond the required for landfill gas collection system leak detection and prevention, and excluding the use of green waste as a material for alternative daily cover (ADC), consistent with AB 1594 3. Amend General Plan and Zoning Code to allow renewable energy generation, such as solar and wind, on closed landfill areas 	<ol style="list-style-type: none"> 1. Ongoing. 2. Provisions requiring that source-separated organics waste collected by haulers providing services pursuant to two of the County's franchises be composted and no longer used as ADC have been added by way of amendments approved in 2015 and 2017. Additionally, the Board approved changes to one of the Conditions of Approval in the County issued LUP governing the Keller Canyon Landfill that requires the operator to proactively seek to ensure adequate composting capacity is available by 2020 to manage green waste currently used as ADC. 3. County Board of Supervisors expected to provide staff with direction in December about updating the General Plan.

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WE 1	Reduce water demand.	1,210	20%	Reduction from 2013 water use	Conservation & Development	Ryan Hernandez	Mid-Term (by 2020)	<ul style="list-style-type: none"> Continue to reduce potable water use by at least 20% through conservation efforts in new and existing development Continue to enforce water conservation requirements in new developments per the State Model Water Efficient Landscape Ordinance. 	<p>(1) The County does not provide potable water service and has an indirect role (no governing authority) to reduce potable water use by 20% in existing development. The County could consider establishing new development criteria that may allow a 20% reduction in future development. The County could encourage the existing water purveyors (EBMUD, CCWD, Diablo, Town of Discovery Bay and various cities) to continue programs like turf replacement and limiting outdoor water use to specified days of the week. We could also consider how to support the State's "water conservation is a way of life" campaign.</p> <p>(2) New development (i.e. from single family homes to subdivisions) are subject to the updated State Model Water Efficient Landscape Ordinance. The County administers this Ordinance on new development through our Planning and Building divisions.</p>
WE 2	Provide alternative water resources for irrigation in residential and nonresidential areas.	Supportive of Measure WE 1	Supportive	n/a	Conservation & Development	Ryan Hernandez	Mid-Term (by 2020)	<ul style="list-style-type: none"> Promote rainwater collection for irrigation purposes Update the Dual Water Systems Ordinance to allow the use of recycled water for irrigation in residential and nonresidential areas 	<p>(1) The County continues to seek cost effective ways to promote rainwater collection for irrigation purposes but has not identified a clear path forward. It seems the scope of this measure may be better suited for collection and irrigation of rainwater in residential land uses and may not make a good business case to apply to larger agriculture uses.</p> <p>(2) The County's Dual Water Systems Ordinance, Chapter 82-30, allows for the use of recycled water in designated dual water system areas.</p>
GO 2	Promote energy-saving tools and practices.	Supportive of Overall GHG Reductions	Supportive	n/a	County Administrator's Office Public Works	Brian Balbas	Mid-Term (by 2020)	<ul style="list-style-type: none"> Continue to conduct audits of existing and recently acquired facilities, prioritize improvements, and upgrade facilities to save energy Increase solar electricity use for County and agency operations Develop policies related to powering off lights and appliances after hours Site facilities that have more than 50 personnel in close proximity to infrastructure and services that support alternative commute modes 	<p>Public Works is has been working with County Counsel to resolve issues pertaining to PG&E's On-Bill Financing program, which provides up to \$4,000,000/year of funding to municipalities to perform cost effective energy efficiency work in their facilities. It appears that a solution has been identified through the use of a performance contractor who will guarantee the savings of the project.</p> <p>Audits of existing and recently acquired facilities, the prioritization of improvements and upgrade of facilities to save energy will be accomplished by the above-mentioned performance contractor.</p>

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GO 5	Establish budgeting and administration practices to support the Climate Action Plan.	Supportive of Overall GHG Reductions	Supportive	n/a	County Administrator's Office Public Works	Eric Angstadt Brian Balbas	Mid-Term (by 2020)	<ul style="list-style-type: none"> Ensure the Environmental Purchasing Policy includes: green office supplies and green fleet and equipment Reduce County fleet use of traditional fuels 20% by 2020 Evaluate progress of Measure 13 from 2007 Municipal Climate Action Plan (30% of employees telecommuting two days a week) Develop a process for sharing government operations' energy and water use and efficiency and conservation measures with public as an educational tool Advocate for regional, state, and federal activities that support GHG emissions in the County, including: work with the BAAQMD to support reductions in process emissions from industrial entities, adopt language in the County's State and Federal legislative platforms that directs support and lobbying for local GHG reduction, advocate for additional transit funding sources concurrently with the development of priority development areas 	<ul style="list-style-type: none"> The County has Environmentally Preferable Purchasing specifications updated in 2010 that address source reduction, recycled content, energy and water savings, green buildings, landscaping, toxics and pollutants, forest conservation, and bio-based products. In 2015, 231 out of 1,587 vehicles (14.5%) were alternative fueled. In 2016, 303 out of 1533 vehicles (21%) were alternative fueled. The County fleet uses renewable diesel fuel. In 2016, the County's fleet was recognized by the East Bay Clean Cities Coalition as a Clean Air Champion for our fleet operations. The County's Energy Manager and Sustainability Coordinator have initiated discussions to identify education and outreach strategies that showcase County distributed energy resource (DER) for the use of public education. The County regularly advocates for policies, programs, and funding that will reduce GHG emissions in the County.
LUT 4	Reduce vehicle miles traveled.	4,080	54,400	BART extension trips taken by unincorporated County residents	Conservation & Development	John Cunningham	Long-Term (by 2035)	<ul style="list-style-type: none"> Collaborate with BART and other transits to increase ridership Partner with waste haulers and other fleets to reduce frequency of routes Support and increase the use of carpooling services Continue to promote voluntary trip reduction programs Work to increase densities within half a mile of BART and Amtrak stations and a quarter mile of stops for express bus routes Prioritize alternative mode access to BART and other transit stations Continue to explore funding transit with development applications and other finance methods Continue to encourage establishment of Priority Economic Development Areas in residential communities 	<ul style="list-style-type: none"> Ongoing planning activity; currently we are participating in the "North Concord to Antioch BART Access Study" and the CBPP update. The County is not currently working on reducing frequency of routes. This sector of the transportation system is undergoing substantial change due to microtransit and transportation network companies (Uber, Lyft, etc.) CCTA is conducting a Countywide transportation demand management study in which the County will participate. The County is pursuing and affordable housing project across from the Bay Point BART station, Orbosonia Heights. This is an ongoing activity. We are participating in the North Concord to Antioch BART Access Study, the CBPP update, and we are nearing completion on the Treat Blvd/CC Centre BART Access Study. The County's T-1 Funding Program continues to fund critical transit service in the Tassajara Valley and when appropriate, we urge our city partners to adopt similar mechanisms with development applications. This approach is an uncommon way to fund transit operations but may become more attractive when SB743 comes in to effect. I'm not sure where this comes from or what a PED in a residential community would look like...this language may need to be updated. Maybe this language predates the sustainable communities strategy. The
		32,740,820	New bus ridership miles taken by unincorporated county residents						
		1,202,980	New BART ridership miles taken by unincorporated county residents						

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			1,170,070	Estimated decrease in VMT from HOV lanes					<p>current tools that reflect this are: Priority Development Areas (PDA), Priority Conservation Areas (PCA), and the emerging Priority Production Areas (PPA). The County has complied with requirements relative to PDAs and PCAs. The County advocated for the creation of a PPA program and will monitor the development of this tool and corresponding funding programs and need to change policies.</p>
GO 4	Reduce waste.	Supportive of Overall GHG Reductions	Supportive	n/a	Public Works	Brian Balbas	Long-Term (by 2035)	<ul style="list-style-type: none"> Develop a recycling and composting program for County facilities Educate and train staff to recycle and compost Develop interim waste diversion/reduction goals Achieve zero-waste operations by 2035 	<ul style="list-style-type: none"> Most County facilities have recycling. The Department of Conservation and Development is piloting a composting program. There is opportunity to develop waste diversion and reduction goals.