



CONTRA COSTA COUNTY SUSTAINABILITY COMMISSION 2018 ANNUAL REPORT AND 2019 WORK PLAN

PURPOSE

The Contra Costa County Sustainability Commission was created to:

- A. Advise the Board of Supervisors and staff on successful implementation of the *Climate Action Plan*, including suggestions on how that work can be performed more efficiently and effectively.
- B. Advise the Board of Supervisors on opportunities to realize equity and fairness across the diverse communities of Contra Costa County in sustainability programs that support the *Climate Action Plan*.
- C. Advise the Board of Supervisors and staff on how to better engage Contra Costa County residents and businesses on sustainability issues and implementation of the *Climate Action Plan*.

2018 ANNUAL REPORT

The current members of the Sustainability Commission are:

Victoria Smith, Member, District 2, Chair
Howdy Goudey, At-Large, Community Group, Vice
Chair
Nick Despota, Member, District 1
Shoshana Wechsler, Alternate, District 1
Ryan Buckley, Alternate, District 2
John Sierra, Member, District 3
Gretchen Logue, Alternate, District 3
Wes Sullens, Member, District 4

Travis Curran, Alternate, District 4
Charles Davidson, Member, District 5
Mark Thomson, Alternate, District 5
Harry Thurston, At-Large, Community Group
Kathy Cutting, At-Large, Business
Nicholas Snyder, At-Large, Business
Doria Robinson, At-Large, Environmental Justice
Kim Hazard, At-Large, Education

The Commission meets the fourth Monday in February, April, June, August, October, and December, at 5:00 p.m., at 30 Muir Road, Martinez, unless a different location has been determined. The December meeting is earlier in the month. Jody London, Sustainability Coordinator, is lead staff. All members have completed the mandatory training. The Sustainability Commission has been asked to provide a representative to the County's Integrated Pest Management Advisory Committee; Gretchen Logue is filling that role.

The Chair and other members of the Commission participate in meetings of the Board of Supervisors' Ad Hoc Committee on Sustainability. The Commission receives briefings from County staff and representatives of other agencies and groups on a range of issues related to the Climate Action Plan. In August, the Commission held a retreat to discuss how to more effectively achieve its goals. The notes and outcomes from the retreat are attached. Following the retreat, the Commission developed and adopted a template it asks presenters to use when addressing the Commission.

Below is a summary of the Commission's 2018 accomplishments.

Topic	Accomplishments
Polystyrene Ban	In April, Commission members met with Public Works staff to learn about the proposed ban and provide input. Public Works provided an update at the August 2018 Commission meeting. The Board of Supervisors on December 9 directed staff to develop a polystyrene ban that includes restaurants and other food service businesses, private care facilities, and private service providers and bans the sale of polystyrene food containers.
Carbon Fee and Dividend	The Commission asked the Board of Supervisors to incorporate into the County's federal legislative platform support for a carbon fee and dividend. The Board on October 9 indicated its support for a carbon fee to be added to the federal legislative platform.
Celebrating Success	The Sustainability nominated two groups for Sustainable Contra Costa Leadership awards: the North Richmond Watershed Connections Project, and the Public Health Academy at Alhambra High School. Both won and were recognized in September.
Realizing Equity and Fairness	The Commission discussed how it could better achieve this purpose at its retreat. In October, the Commission met with the Asian Pacific Environmental Network to learn more about environmental justice and climate planning. This work is ongoing.
Communication and Engagement	Members of the Commission are working with staff on how to better engage County residents and businesses. Commission members participated in a Countywide workshop in November with ecoAmerica on Let's Talk Climate!
Fix-It Clinics	One member of the Commission partnered with staff from the County Library to host a Fix-It Clinic at the El Cerrito Library, and to plan additional clinics at other libraries.
Adapting to Rising Tides	A member of the Commission researched sea level rise. She reached out to the Bay Conservation and Development Commission regarding the ART study. BCDC presented to the Commission in June. Members of the Commission participated in the August kickoff meeting for the ART-Eastern Contra Costa project.

2019 WORK PLAN

The Commission will continue to report to the Ad Hoc Committee on Sustainability, as well as to the full Board. Projects and initiatives related to the *Climate Action Plan* on which the Commission anticipates it will advise the Board of Supervisors and staff include:

- General Plan Update
- *Climate Action Plan* update
- Integrating equity and environmental justice into the *Climate Action Plan* and related documents and projects
- Identifying and pursuing opportunities to develop green benefits districts throughout the County
- Electric Vehicle Readiness Blueprint
- Advocacy on issues related to the *Climate Action Plan*
- Potential health impacts of climate change
- Outreach and education on sustainability to Contra Costa County residents and businesses
- Resiliency, including the Adapting to Rising Tides studies for Eastern Contra Costa County and the Bay Area region
- Issues related to water conservation and drought

- Land use and public transportation, including pedestrian and bicycle access
- Energy Efficiency & Renewable Energy
- Recycling, particularly the lack of facilities to process recycled materials

ATTACHMENT 1

NOTES: Sustainability Commission Retreat August 18, 2018

These notes were compiled by the facilitator, Marti Roach, from flip chart notes. Page 1 is the agenda for the Meeting. Page 2 shares a few comments captured by the opening activity and review of last year's work. Key documents for moving forward, including goals, are found starting on page 3.

It is recommended that the Commission review the Goals and actions going forward to affirm correct wording and intent as transcriptions/ reorganization of ideas from the flip charts may have gotten something awry.

Participant Agenda for Meeting

Desired Meeting Outcomes

- Appreciate and learn from our past work
- Clarify our responsibilities and what they mean for what we do and the impact we want
- Confirm ideas for our focus and operations that will support our effectiveness

9:00 am **Welcome, Agenda Review, Opening Conversation**

Reflecting on our work, what we have learned and implications for going forward (whole group review and discussion.)

Clarifying our mandate and our roles to maximize our impact. (small group carousel discussions)

BREAK (estimated time: 10:50)

Report outs on Carousel small group discussions.

Discussion on what substantive work we want to prioritize as a Commission

Public Comment

12:45 **Closing and next steps**

Some of the comments that came out when reflecting on the opening introductions:

- We need to focus on deliverables of the Commission.
- Most are on the Commission for networking.
- Need to address redundancies across communities and County.
- Still learning.

Some of the learnings mentioned after review of the first year work of the Commission:

- We need to track suggestions and our advice
- Polystyrene model of work: a few Commissioners research a topic and bring back to Commission a recommendation, which is discussed and acted on. Jody commented that this work had the effect of getting attention of the responsible Department and they did more work on this issue.
- Role in Carbon tax as educators at Ad Hoc Committee
- How can we initiate things?
- Focusing on MCE promises for clean energy –an idea for action. Jody commented there is a place for engagement on this and she will send out.
- Focus on guidance to Ad Hoc Committee
- Attend Ad Hoc Committee meetings with preparation.

At the end of the retreat, with time short, a couple of comments on what we did not get to:

1. A more technical level look at what we will focus on
2. No chance to discuss and prioritize the efforts that are underway

Small Group “Carousel” Discussion on Commission Mandate and Role

	ADVICE TO STAFF AND BOS ON SUCCESSFUL IMPLEMENTATION OF THE CAP	ADVISE THE BOS ON OPPORTUNITIES TO REALIZE EQUITY AND FAIRNESS ACROSS THE DIVERSE COMMUNITIES OF CCC IN SUS. PROGRAMS	• PROVIDE SUGGESTIONS TO STAFF & THE BOS ON HOW TO BETTER ENGAGE CONTRA COSTA COUNTY RESIDENTS & BUSINESSES ON SUSTAINABILITY ISSUES. INCLUDING IMPLEMENTATION OF THE CAP
What do we need to do and/or find out	<ul style="list-style-type: none"> • What is/is not being done to implement CAP. • Want pres. from County staff to clearly tie their actions to specific CAP measure and how we can provide input. (2) • Arrange small group follow-up with staff to determine how we can support their work. (2) Commission be included in early input/ development of CAP update /General Plan (1) • We need regional information for larger picture (MTC, BAAQMD, Agencies, State) • Request to adjacent Cities to present their CAP plans to help understand existing indicators and overlap. 	<ul style="list-style-type: none"> • More diverse commission (2) • Allied with low-income communities (2) • Look at other city action plans (?) • Bring diverse community members to Mtg. • Invite community groups to be part of our meetings and activities • Implement practice of examining issues using Sustainability Pillars • Invite Climate Justice Alliance to present their equity frame and solution suggestions to Commission. • Be participants of Northern Waterfront project • When receiving presentations, ask about each group’s equity plan and offer support, if needed. 	<ul style="list-style-type: none"> • What are the current resources available: \$, people, initiatives, etc. in County and in Commissioners. (2) • What is currently in place to reach the res. /bus. /city/county? (2) • How are bus. Categorized (size, type, industry, etc.?) • Find out if there are any limitations of what we can say/how much we can advocate. • Limitations on political endorsements for Commission? • Find out if there are other CBOs, Chamber, Biz groups doing outreach that we can collaborate with. (2) • ID touchpoints, key communities to engage (i.e. schools, city councils) • We have not established engagement strategies with stakeholders
What is in place already to support this work	<ul style="list-style-type: none"> • Implementation Matrix. (1) • Attending the Ad Hoc Committee-tracking their activities. (2) • After each presentation, a lot of discussion time amongst commission members on what /How? If we could advise on that initiative/issue. (2) 		<ul style="list-style-type: none"> • County input at meetings to further understand existing programs. • Have reps at Ad Hoc Committee
What questions arise	<ul style="list-style-type: none"> • Reframing understanding of our role as advisory rather than hands on implementation. 	<ul style="list-style-type: none"> • While focusing on where to make the largest impact, how do we ensure also being inclusive of all communities? • How can we be more aggressive/pro-active in creating equity and not just following whatever the state says? 	<ul style="list-style-type: none"> • Clarity on our roles w/ business (do we reach out to them?) • How do we get involved in the process-or do we? • Do we have staff/ paid communications staff to support this responsibility? • How do we interface with communications from Depts.? • CIO engagement; more direct line of communication w/ us.

DISCUSSION ON THE CAROUSEL WORK LED TO A NUMBER OF ACTION RECOMMENDATIONS. *These are formatted, slightly adjusted from wall transcription, in an effort to best capture the recommendations. Review of them to finalize and affirm is encouraged. The idea of seeing these actions as pointing to work on specific goals of the Commission emerged in the Discussion and is captured here. If this framework is kept, some further clarity and better GOAL statements might help define the work.*

I. GOAL: Support Update of CAP

I. A. Convene municipalities to review, together, their CAPS, sharing common concerns and partnership to find solutions together.

This will be done with attention to equity (use equity frame) and community engagement and include a public health perspective. Consideration will be given to inviting the Climate Justice Alliance to speak at this event.

Lead Commissioners: Kathy Cutting, Wes Sullens, Howdy Goudey.

Supporting action: Doria will send the example of Richmond's plan for how to integrate attention to health throughout the plan.

II. GOAL: Improve structure and operations of the Commission

II. A. Create a template for presentations. (and post presentation discussion and next steps identification).

It will include questions the Commission wants answered, addressing topics like CAP measure, explain fit with CAP and experience in implementing the CAP, equity, public engagement, possible roadblocks (what can get in your way?) and what presenter needs from Commission, in line with Commission role.

Lead Commissioners: Nick Despota, Doria Robinson, Nick Snyder. Jody a resource.

II. B. Beyond Q&A, ensure internal discussion among Commissioners on the topic and next steps. Identify a point person to follow up with the Dept., as appropriate. Formulate clear "next steps" in line with Commission role.

This discussion directed the template mentioned in A to also include the generic questions that are used in this discussion to meet its purpose.

II. C. To support follow up and follow through on agenda actions and topics, Staff will make an agenda item for follow up in Commission meetings. A tracking sheet of action items and topics will be created by staff in Excel.

Lead Commissioner to help staff: Nick Snyder

II. D. Clarify communications and work with Ad Hoc Committee. Staff will provide agenda item at each meeting to determine topics of discussion to share at Ad Hoc Committee. The report will include a summary of what Commission as done and issues that arose. The Ad Hoc Committee will be asked if there are areas where we might align on specific topics/issues to advance common work.

(this latter action was agreed upon after a lot of discussion that pointed to the wish to work with the BOS through the Ad Hoc Committee but at the same time to be sure that the Commission maintains independence of its work.)

Lead Commissioner: Sustainability Commission Chair

III. GOAL: Activate Commission role in Community Engagement.

III. A. Gather information on current status of engagement plans in the CAP in Depts.

Lead Commissioners: Ryan Buckley, Travis Curran, Harry Thurston, Gretchen Logue

Discussion occurred around a query about Commissioners' role in visiting groups such as Chambers of Commerce to educate about county and Commission work and elicit views from these groups. Discussion reaffirmed the primary role of the Commission to provide suggestions on stakeholder engagement to staff and recognized that Commission members can also do outreach to groups if they wish. In review, it was also suggested that this outreach could show up in written or web based communications as well.

It was noted that the Commission's role on business and resident engagement is addressed in Goals I and II by including queries on this topic, and raising it as an area of action within a CAP and providing opportunity for the Commission to follow up on these issues with Departments implementing the CAP.

IV. GOAL: Develop/ adopt an equity frame for the Commission's work

IV. A. Invite the Climate Justice Alliance to a meeting as soon as is possible to learn of their work and their equity frame. Invite staff from other County departments to attend as well.

Lead Commissioner: Doria Robinson

V. Participate in the General Plan Update.

Contra Costa County Sustainability Commission
2018 Climate Action Plan Progress Report

The Contra Costa County Sustainability Commission’s purpose includes advising the Board of Supervisors and staff on successful implementation of the *Climate Action Plan (CAP)*, including suggestions on how that work can be performed more efficiently and effectively. The Commission is interested in reporting on progress in meeting the numeric targets in the 2015 *Climate Action Plan*. This report provides updates on progress in meeting the numeric targets. The attached spreadsheet includes detailed information on progress in meeting the action items identified in the *Climate Action Plan*.

There are several areas where the County has made significant progress in meeting the quantitative *Climate Action Plan* targets. A number of the measures do not have targets and are considered “supportive.”

As the County updates the *CAP* in 2019, the Sustainability Commission encourages the County to identify strategies and measures that will better allow the County to demonstrate progress in meeting greenhouse gas (GHG) reduction goals. The Commission also encourages the County to look for approaches that solve for multiple measures, for example reducing Styrofoam and/or plastics and increasing composting, reducing vehicle miles traveled and increasing use of public transportation and alternative transportation such as bicycling or walking.

Energy Efficiency (Measures EE1, EE2, EE3)

GHG Emissions Reductions Target for All EE Measures	GHG Emissions Reductions Expected by 2020 for All EE Measures	Total % Expected to be Completed
7200	7528	105%

	Measure	Percent of Completed Projects (Total to date through 2017)	Projected Percent of Completed Projects up to 2020
EE1	Provide opportunities for residential buildings to become more energy efficient.	22%	44%
EE2	Provide opportunities for nonresidential buildings to become more energy efficient.	4%	8%
EE3	Provide education and outreach highlighting the benefits of energy conservation.	589%	1178%

Cool Roofs and Shade Trees (Measure EE4)

The CAP calls for 1,790 existing homes and 9 businesses to complete cool roof retrofits by 2020. In 2017, staff reported steady increases of cool roofs on homes, but not at a rate to meet the target.

Residential Cool Roof installations

Year	# Cool Roofs Installed
2010	54
2011	46
2012	31
2013	10
2014	44
2015	73
2016	226
2017	335
Total	819

Commercial Cool Roof installations

Year	# Cool Roofs Installed
2014	2
2016	3
2017	2

The CAP calls for 500 new shade trees to be planted in the unincorporated County by 2020. The County typically processes 50-60 tree permits per year. To meet the goal of 500 trees by 2020, the number of trees planted annually would have to be closer to 100. The County issues permits for trees associated with projects that require County approval. It is possible that people are planting trees that the County does not track.

Rooftop Solar (Measure RE 1)

The CAP calls for 50 new homes and 2,500 existing homes to have solar arrays by 2020. The County has far exceeded this goal, issuing on average 1,500 permits for rooftop solar since 2014. Since the County implemented online applications in 2015, about 25% of applications have been issued using that channel. In 2020, the State will require all new residential buildings to install solar.

Summary of Roof Mount PV Permits Issued			
Year	# of Roof Mount Solar	# of Epermits	Notes
2008	315	NA	

Summary of Roof Mount PV Permits Issued			
Year	# of Roof Mount Solar	# of Epermits	Notes
2012	525	NA	
2014	1,343	NA	
2015	1,630	28	PVR ePermits implemented September 2015
2016	1,436	333	
2017	1,630	358	
2018	1,337	385	Permit data from 1/1/2018-11/30/2018
TOTAL	8,216	1,104	

Solar on County Buildings (Measure RE 2)

The County has installed nearly 5 MW of solar photovoltaics (PV) on County facilities to date. The performance target is 1 MW by 2020. The County is working to install solar PV at 11 more sites, many of which are also being considered for energy storage. This next wave of solar PV would result in a doubling of capacity and may include 3 MW of storage capacity. The new County Administration Building includes solar canopies on the parking lot, as well as 14 electric vehicle chargers. The new Emergency Operations Center will continue to take energy from the solar panels that were at the site previously and is being evaluated for the possibility of upgrade to Zero Net Energy with the addition of more solar capacity, as is the new Administration building.

MCE Enrollment (Measure RE 3)

Measure RE 3 is supportive and does not have numeric target. However, this is an area of significant progress. The CAP identifies community choice aggregation as a strategy for increasing the amount of renewable energy consumed in the County. The County and nine cities opted to join MCE in May 2017, joining the five cities that had previously joined MCE. Customer accounts transitioned to MCE in April 2018. As can be seen below, across the County nearly 89% of customers are choosing MCE. In the unincorporated County, the largest population, over 90% of customers are choosing MCE. The number of customers enrolling in MCE's Deep Green, 100 % renewable product, is significantly less.

MCE Enrollment as of November 6, 2018						
Jurisdiction	Total Accounts	MCE Accounts	MCE Partic. %	OPT OUT %	Deep Green Accounts	Deep Green % of MCE
Concord	51,292	47,068	91.76%	8.10%	338	0.72%
Contra Costa Co.	69,110	62,367	90.24%	9.63%	691	1.11%
Danville	17,686	15,942	90.14%	9.73%	185	1.16%
El Cerrito	11,752	10,619	90.36%	9.45%	740	6.97%
Lafayette	11,060	9,845	89.01%	10.86%	500	5.08%
Martinez	16,673	15,257	91.51%	8.25%	163	1.07%
Moraga	6,416	5,741	89.48%	10.36%	75	1.31%

MCE Enrollment as of November 6, 2018						
Jurisdiction	Total Accounts	MCE Accounts	MCE Partic. %	OPT OUT %	Deep Green Accounts	Deep Green % of MCE
Oakley	13,907	11,394	81.93%	18.02%	43	0.38%
Pinole	7,883	7,301	92.62%	7.10%	62	0.85%
Pittsburg	24,717	22,900	92.65%	7.23%	77	0.34%
Richmond	43,146	34,941	80.98%	18.91%	822	2.35%
San Pablo	10,552	9,238	87.55%	12.31%	43	0.47%
San Ramon	31,339	28,564	91.15%	8.73%	166	0.58%
Walnut Creek	37,124	32,660	87.98%	11.87%	716	2.19%
TOTAL	352,657	313,837	88.99%	11.01%	4621	1.47%

Financing Opportunities (Measure RE 3)

The CAP calls for improving participation in programs that help finance investments in energy efficiency and renewable energy. Property Assessed Clean Energy (PACE) programs allow property owners to voluntarily join an assessment district and borrow money for the purpose of making energy or water efficiency improvements to their property. In 2018, the County authorized a third PACE provider for property owners in the unincorporated County.

Countywide Bike Trips Per Weekday (Measure LUT 1)

The CAP sets a target of 33,630 average countywide bike trips per day. This is not a metric that staff has been tracking due to cost of data collection and the inherent limitations of this data in a discontinuous municipality/geography such as the unincorporated area. Staff has provided data on the action items in the CAP for this measure, including infrastructure to support bicyclists and pedestrians, pervious pavement, and grants. Absent bike trip counts, the County tracks data on the development of infrastructure that supports bicycles and pedestrians. Due to the well-established, strong correlation between the installation of new, high quality infrastructure and increases in bike use, the quantity of new infrastructure is used as a proxy bike trips. In 2018, the County added 18,025 feet of bike lanes, 1,360 feet of path/sidewalk, 24 curb ramps, and 2,655 square feet of pervious pavement in the unincorporated County. Improvements to this metric would include tracking the quantity of superior bicycle facilities installed (Class I or Class IV) and advocating for the Metropolitan Transportation Commission or Contra Costa Transportation Authority to track mode split on a countywide basis.

Alternative Fuel Vehicles (Measure LUT 2)

The CAP sets various targets related to electric vehicles (EV), including annual vehicle miles traveled (VMT) per public charging station, VMT per EV, electricity use per EV, and households with an EV. These are not metrics that staff tracks currently. The County has an aggressive plan to increase the number of EVs across the County by focusing on charging infrastructure. The County is working with the Contra Costa Transportation Authority to develop an EV Readiness Blueprint that will identify locations for shared mobility charging hubs, best practices for local governments to follow in deploying EV charging

infrastructure, and workforce training in the EV sector. The County is also exploring policy changes to electrify the County's fleet.

Lawnmowers Traded In (Measure LUT 3)

To reduce emissions from off-road vehicles and equipment, the CAP sets a target for lawnmowers traded in. This is not a metric that staff tracks, nor is it clear how one would track that data.

Reduce Vehicle Miles Travelled (Measure LUT 4)

This measure establishes targets for BART and bus trips taken by residents of the unincorporated County, and decreases in vehicle miles travelled in high occupancy vehicle lanes. For reasons similar to bike trip data, this is not something staff has been tracking to date. Such an effort would require significant coordination with BART, bus operators, and other agencies to measure. The County is in regular communication with all these agencies through regional coordinating councils and is regularly working with them to increase funding and ridership.

Reduce Water Demand (Measure WE 1)

The CAP sets a goal of reducing water demand by 20% by 2020. The County does not have direct governing authority over water use, which falls to water purveyors. The State has set goals for reducing water use.

Reduce Waste (Measure W1)

In the area of reducing solid waste, we have reduced tons by 80,189 which means we have not yet achieved the 2020 Performance Target of 90,850.

Reduce Methane and Other Emissions (Measure W2)

Staff is finding that this goal is a difficult one for which to assess progress because there is no way to measure the goal of tons of reduced GHG emissions being captured, which is the metric specified for this measure. Making certain assumptions about the data and the measurement tools, staff reports the County likely achieved this goal for 2015, but did not achieve this goal for 2016 and 2017.

Streetlights and Traffic Signals (GO 1)

The CAP sets a goal of replacing 7,210 lightbulbs in County facilities. All of the streetlights in the County, both those owned by the County (1,800) and those owned by PG&E (5,800), have been converted to LED, as have all traffic signals in the unincorporated County. The County has a regular program to upgrade lighting in County buildings.

CONTRA COSTA COUNTY CLIMATE ACTION PLAN IMPLEMENTATION GOALS 2018 - Action Item Progress

Measures	Policy Language	2020 GHG Reductions (MTCO _{2e})	2020 Performance Targets		Responsible Department	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	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"> Worked with PG&E implementer to target specific areas regarding Energy Efficiency Programs for Commercial Businesses through East Bay Energy Watch. Coordinated with Green Business Program on program leads. As of November 2017, there are 279 certified green businesses in Contra Costa Green Business Program (CCGBP). As of January 2018, all businesses, regardless of business or facility size, pursuing certification/recertification are referred to PG&E.
			60	Participating businesses	Health Services			
EE 4	Reduce urban heat islands through vegetation management and cool surfaces.	20	1,790	Existing homes completing cool roof retrofits	Public Works	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. County Off-Street Parking Ordinance includes requirements for the design a location of electric vehicle parking spaces, short- and long-term bicycle parking, and required landscaping (see attached). Current Planning Division typically processes 50-60 tree permits per year; so far in 2018, Current Planning has approved 47 tree permits. Most approvals require tree restitution, which typically exceeds the number of trees approved for removal.
			9	Existing businesses completing cool roof retrofits				
			500	New shade trees	Conservation & Development			
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	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. Some wastewater processors and solid waste haulers are pursuing cogeneration projects.

CONTRA COSTA COUNTY CLIMATE ACTION PLAN IMPLEMENTATION GOALS 2018 - Action Item Progress

Measures	Policy Language	2020 GHG Reductions (MTCO ₂ e)	2020 Performance Targets		Responsible Department	Time Frame	Action Items Identified in CAP	Progress to Date
LUT 3	Reduce emissions from off-road vehicles and equipment.	10	50	Lawnmowers traded in	Agriculture Conservation & Development	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	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.
GO 3	Conserve water.	Supportive of Overall GHG Reductions	Supportive	n/a	Public Works	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 around 2015. Based on the success of that project, the County is replacing turf with drought-tolerant landscapes in more County facilities.
EE 1	Provide opportunities for residential buildings to become more energy efficient.	2,140	3000	Single-family homes receiving basic retrofits	Conservation & Development	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"> • Coordinated and implemented an annual Single-Family homeowner workshop with 47 homeowners in attendance to provide information regarding home energy efficiency rebate program. Distributed quarterly mailers to multi-family property owners regarding available energy efficiency rebate programs.
			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				

CONTRA COSTA COUNTY CLIMATE ACTION PLAN IMPLEMENTATION GOALS 2018 - Action Item Progress

Measures	Policy Language	2020 GHG Reductions (MTCO _{2e})	2020 Performance Targets		Responsible Department	Time Frame	Action Items Identified in CAP	Progress to Date
EE 2	Provide opportunities for nonresidential buildings to become more energy efficient.	4,630	240	Businesses receiving retrocommissioning	Conservation & Development	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. 	Coordinated with East Bay Energy Watch Program lead to support their 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				

CONTRA COSTA COUNTY CLIMATE ACTION PLAN IMPLEMENTATION GOALS 2018 - Action Item Progress

Measures	Policy Language	2020 GHG Reductions (MTCO _{2e})	2020 Performance Targets		Responsible Department	Time Frame	Action Items Identified in CAP	Progress to Date
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	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"> • In 2017, the Department of Conservation and Development received a \$49,000 grant from the California Strategic Growth Council to develop a Renewable Resource Potential Study. In 2018, DCD helped the Contra Costa Transportation Authority win a \$200,000 grant from the CA Energy Commission to develop an Electric Vehicle Readiness Blueprint. DCD also won a \$200,000 Climate Protection from the Bay Area Air Quality Management District for the Cleaner Contra Costa online platform to engage residents in climate protection activities. • Staff has not commenced developing a framework for revenues from Cap and Trade or other sources. • The EV Readiness Blueprint includes a workforce development component in which staff expects both the Workforce Development Board and the community colleges will be engaged.
EE 6	Support the statewide transition to net zero energy construction for new residential buildings by 2020 and new nonresidential buildings by 2030.	290	30	New ZNE homes	Conservation & Development Public Works	Mid-Term (by 2020)	<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 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"> • The Board of Supervisors declined to adopt in advance of the 2019 update to State building code an ordinance that would require solar to be installed on most new residential construction.
			3	New ZNE businesses				
			12	Retrofitted ZNE homes				
			1	Retrofitted ZNE businesses				

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RE 1	Promote installation of alternative energy facilities on homes and businesses.	8,820	50	New homes with solar arrays	Conservation & Development	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"> The new County Administration Building and Emergency Operations Center are both likely to achieve LEED Gold. 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. The Board in December 2017 amended the General Plan to allow solar on commercial and industrial rooftops in the unincorporated County, within the urban limit line. 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.	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"> The County has authorized three PACE providers since the Climate Action Plan was adopted: HERO, CaliforniaFirst, and Ygrene. The County will complete in November 2018 a study of renewable resource potential, and recommended changes to zoning that would facilitate installation of more renewable energy. The County and nine cities in 2017 joined the five Contra Costa cities that had already become members of MCE.

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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	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"> The County continues to add sustainable infrastructure to the County-maintained road system. Public Works added to County-maintained roads in 2018: Bike Lanes – 18,025 linear feet (3.4 miles) Path/Sidewalks – 1,360 linear feet (.25 miles) Curb Ramps – 24 Pervious Pavement – 2,655 square feet Participated in CCTA's update to the Countywide Bike/Ped Plan Sought and won several grants for bicycle/pedestrian plans Currently preparing a Sustainable Transportation Planning grant application to develop expedited procedures to implement bike/ped/complete streets projects.
			4700	Annual VMT per public charging station	Conservation & Development Public Works additional departments, depending on grant resources		<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"> As of 2017, 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 is working with the Contra Costa Transportation Authority to develop an EV Readiness Blueprint under a \$200,000 grant from the CEC. The Blueprint will identify locations for shared mobility hubs for charging many types of vehicles, as well as best

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LUT 2	Expand the use of alternative fuels in vehicle travel.	7,630	14,220	VMT per EV		Mid-Term (by 2020)		practices and policies. CCTA will be eligible to compete for Phase 2 implementation grants in 2019. Iders. <ul style="list-style-type: none"> Public Works is pursuing grant funding 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 potential source of continuing cash flow for EV chargers.
			4,830	Electricity use per EV				
			1,790	Households with an EV				

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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	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"> • Amend Zoning Code - Completed. • The current County Code allows "crop and tree farming" as a permitted use in all residential districts. • The County is currently reviewing agricultural land uses that would further promote and incentivize agricultural sustainability and economic vitality. Targeting Summer 2019 for BoS to consider Draft Ordinance. • Continue to support local farmers markets, community gardens, school gardens and urban agricultural practices. • We continue to register and issue certificates, check for problems, assist Farmers and Market Managers with getting established, and any problems they may have. • Encourage partnerships between local food growers and local food retailers. • Working with DCD through changes in policy to help facilitate growers to have the ability to have their own retail outlets or other value added businesses. • Encourage partnerships between local food growers and local schools, hospitals, colleges and correctional facilities. • Laws have been enacted to require a certain percentage of foods at some of these facilities to be from California sources. • Liberty Union High School District put up for sale the parcels intended to be expansion high schools #4 and #5.

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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	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 2017 equates to a diversion rate of 69% (annual disposal rate of 2.4 pounds per person per day). 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
							1. Annually verify compliance with California Air Resource	1. Unfortunately, emissions levels were detected

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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	Mid-Term (by 2020)	<p>Board's landfill methane control measures</p> <p>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</p> <p>3. Amend General Plan and Zoning Code to allow renewable energy generation, such as solar and wind, on closed landfill areas</p>	<p>during quarterly monitoring in 2017 which exceeded the LMR so therefore the assumed methane capture rate was 75% rather than our 85% CAP goal.</p> <p>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.</p> <p>3. DCD has executed contract with the consultant selected to assist with a comprehensive update to the County's General Plan.</p>
WE 1	Reduce water demand.	1,210	20%	Reduction from 2013 water use	Conservation & Development	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>

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WE 2	Provide alternative water resources for irrigation in residential and nonresidential areas.	Supportive of Measure WE 1	Supportive	n/a	Conservation & Development	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	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 	<ul style="list-style-type: none"> The Board has adopted a Distributed Energy Resources Plan that calls for better integration of energy projects in County facilities. Sun Power through a competitive bid process is assisting the County in siting solar panels on up to 11 County facilities.

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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	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. Staff is developing updated information on County fleet, which will be available in early November 2018. 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. 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	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"> Collaborated with County Connection to promote a new bus route serving County offices Added policy to our Federal Platform seeking funding for the next phase eBART extension.
		32,740,820	New bus ridership miles taken by unincorporated county residents					
		1,202,980	New BART ridership miles taken by unincorporated county residents					
			1,170,070	Estimated decrease in VMT from HOV lanes				

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GO 4	Reduce waste.	Supportive of Overall GHG Reductions	Supportive	n/a	Public Works	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"> • The County has expanded recycling to all County offices as of October 2018.