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# GO GREEN

## MONTEREY COUNTY WORK PLAN

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## Introduction and Purpose of the Go Green! Work Plan

The Go Green! Monterey County Program was established in 2013 (previously Sustainable Monterey County) to provide leadership and build upon the County's sustainability policies, actions, and partnerships. The Go Green! Work Plan serves as a living document to provide guidance and transparency to the Program's sustainability efforts. This Work Plan also showcases the accomplishments and progress that Monterey County Departments have made to advance the County Organization and the County as a region to become a healthier, more sustainable, and more resilient place. Moreover, the Go Green! Program and the initiatives outlined in this work plan align with the Monterey County Strategic Initiatives. Under the guidance of the Alternative Energy and Environment Committee, the formation of the Work Plan has been made possible through the collaborative efforts of Monterey County staff members spanning multiple departments, many of whom serve on the Go Green! Technical Advisory Committee.

The Go Green! Work Plan provides a 3-year framework for the Key Program Projects that the Go Green! Program will focus efforts on through Fiscal Year 2018-19. While this Work Plan does not address financing options for the Key Program Projects directly, fiscal considerations including lifetime costs, funding source, and return on investment will be taken into account for each project during the project planning phases. All of the Go Green! Program's efforts will be categorized within one or more of the Go Green! Program Areas, which are introduced in this document. Furthermore, this Work Plan provides a list and categorization of all of the Monterey County Organization's sustainability efforts and to provide insight into the policies and justifications involved in driving these efforts. Lastly, the Work Plan provides information regarding potential future projects for consideration of the Go Green! Program or other Monterey County Departments.

This work plan aims to show how interdepartmental coordination is a key component to the Go Green! Program's management and overall success. Similar to the *collective impact* strategy framework, the Go Green! Program will act as the "backbone support" for Monterey County's sustainability efforts. The Sustainability Coordinator will help mobilize the coordination between departments, drive open and consistent communications for sustainability initiatives throughout the County, support aligned department activities and, in some cases, the reporting of these activities.

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## Go Green! Vision

*The Monterey County Government organization acts as a regional leader by ensuring our programs, services, operations, and decision-making processes reflect our deep commitment to environmental integrity, while balancing economic sustainability, social equity, and community health for current residents and future generations.*

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## Go Green! Program Statement

*The Go Green! Monterey County Program is committed to promoting sustainability by supporting the Monterey County Sustainability Goals, upholding the State of California's climate-related initiatives and measures, and providing a safer and healthier community within Monterey County and the surrounding areas.*

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## Monterey County Sustainability Goals

The Monterey County Sustainability Goals were presented and considered by the Alternative Energy and the Environment (AEE) Committee in the fall of 2014 and will ultimately be approved by the Board of Supervisors.

Goal 1. Water use and conservation: Reduce water use and water-system GHG emissions in County facilities and operations.

Goal 2. Stormwater Quality and Quantity: Stormwater quality from runoff, wastewater, and other sources free of pollutants and toxic substances, and that is clean enough to be re-used for later purposes.

Goal 3. Waste: Work toward becoming a zero waste organization by managing resources efficiently and responsibly.

Goal 4. Energy Efficiency: Reduce County facility and employee energy consumption through progressively updated technology and efficient operating systems.

Goal 5. Renewable Energy: Generate energy for County operations to increase the use of clean energy and transition away from fossil fuels.

Goal 6. Biological Resources and Climate Adaptation: County operations and facilities are low-impact and supportive of healthy and vibrant ecosystems sustain and naturally occurring species, while becoming more resilient to the potential adverse environmental, social, health, and economic effects of climate change.

Goal 7. Toxics and Facility Environmental Quality: Ensure that indoor County facilities provide healthy air, lighting, and climate for employees and visitors and the use of toxic materials and products are very limited.

Goal 8. Built Environment (Land Use): Ensure the location and design of County facilities creates positive and healthy public spaces that are easily accessible and well-integrated into the surrounding neighborhood.

Goal 9. Infrastructure: Invest in infrastructure systems that will support the greater sustainability for County operations as well as countywide.

Goal 10. Transportation: Reduce non-point source GHG emissions from employee commutes as well as travel for County business through increased active transportation, cleaner vehicle fuels, and fewer required vehicle miles travelled (VMT).

Goal 11. Food System: Contribute to the enhancement of the local sustainable food system that includes food production, distribution, consumption, and waste in County facilities and events to support employees and visitors in eating safe, healthy, delicious, and affordable food.

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## Go Green! Program Areas

The Go Green! Program Areas categorize current County projects or potential projects that will be managed, led, collaborated upon, or monitored by the Go Green! Program. These projects are categorized in one or more of the three program areas listed below.

### PROGRAM AREA #1: RESOURCE CONSERVATION, CLIMATE ADAPTATION, AND POLLUTION REDUCTION

This program area includes all current and future Monterey County Organization efforts and community-wide efforts that result in the reduction of point source (e.g. electricity generation at power plant) and non-point source (e.g. use of vehicles) GHG emissions. In addition, this program area includes projects that conserve and protect the natural resources and the environment. Project categories in Program Area #1 include:

- Energy Efficiency and Conservation
- Renewable Energy
- Waste Reduction, Recycling, and Composting
- Sustainable Transportation
- Green Building
- Water Conservation & Quality
- Wastewater Systems

### PROGRAM AREA #2: ORGANIZATION-WIDE CULTURE SHIFT

The ongoing education of Monterey County staff is a key component of the Go Green! Monterey County Vision and is crucial to ensure the Monterey County Government Organization remains a leader in sustainable and environmental stewardship. This includes current and future projects, activities or events which enhance the knowledge of sustainability and alters the behavior of Monterey County's staff to be more sustainable in their day-to-day lives. Project categories in Program Area #2 include:

- Employee Training
- Climate Friendly Purchasing
- Sustainable Employee Policies and Standards
- Green Workplace Certifications
- Sustainable Leadership Activities

### PROGRAM AREA #3: COMMUNITY OUTREACH AND EDUCATION

Direct or indirect interaction with Monterey County community members in order to spread awareness and provide access to resources in the following areas: energy efficiency, water conservation/drought awareness, waste reduction/diversion, toxics reduction, and sustainable transportation. A keystone of this program area is the Go Green! Monterey County website, which acts as the central point of contact between the Go Green! Program and the public. Project categories in Program Area #3 include:

- Online Educational Resources
- Sustainability Toolkits for Public Use
- Rebates and Incentives
- Community Outreach Events
- Health in All Policies
- Sustainable Community Building

## Go Green! Program Management

### PROGRAM COORDINATION

Interdepartmental coordination is paramount to the success of the Go Green! Program. Akin to the *collective impact strategy*, where the “backbone” provides a critical role to facilitate the collaboration between different groups toward a common agenda and outcome, the Sustainability Coordinator will function as that backbone. Key functions of the Go Green! Program and the Sustainability Coordinator will be to catalyze efforts for coordination between County departments, other agencies, and the public; assist and coordinate in the reporting of sustainability outcomes for County projects; support and build upon a shared measurement system; when possible, assist in the mobilization of funds to kick-start initiatives; and help departments find common sense solutions towards the Go Green! Vision. Moreover, the Go Green! Program will bring knowledge of environmental and technical issues to County staff who are doing the day-to-day work and who are the subject matter experts for their field. In that, the Go Green! Program will work toward finding a synergy between County operations and sustainability.

### COLLABORATION WITH REGIONAL ASSOCIATIONS

To the extent feasible, Monterey County will participate in regional collaborative groups and networks focusing on environmental and climate related issues. This will allow for greater cooperation between Monterey County and other external organizations to combine efforts towards similar goals. The Go Green! Program has identified two regional associations working towards similar goals and principles:

Monterey Bay Climate Action Compact - an action network of government agencies, educational institutions, private businesses, non-profit, and non-governmental organizations who are committed to working collaboratively to address the causes and effects of global climate change through local initiatives that focus on economic vitality and reduce environmental impacts for the region.

Central Coast Climate Collaborative – A network of local and regional community leaders in the Counties of Monterey, Santa Cruz, San Benito, San Luis Obispo, Santa Barbara, and Ventura to address climate change mitigation and adaptation.

Local Government Commission – Each year in June, the Local Government Commission, in partnership with the Statewide Energy Efficiency Collaborative host the Statewide Energy Efficiency Forum. At no cost to local government employees, this forum highlights innovative energy and climate change programs from around the state, offers trainings for attendees, and provides a robust networking opportunity.

### PROGRAM ADMINISTRATION

Alternative Energy and Environment Committee - The Alternative Energy and Environment Committee (AEE) is a standing Committee of the Board of Supervisors charged with providing oversight regarding the County’s sustainability initiatives. In March 2016, the County Administrative Office – Intergovernmental and Legislative Affairs Division assumed the staffing role for the AEE.

The Go Green! Monterey County Website - The Go Green! Monterey County Webpage is a public interfacing website for the Go Green! Program that will require build-up and consistent updating. The website is one of the cornerstones for public outreach and education for the Go Green! Program, and will be used as a tool to disseminate sustainability resources, bridge the gap between County efforts and the public, showcase best practices, and allow for viewers to see the progress that Monterey County has made through the use of an indicator dashboard. The Go Green! Program, working with the County’s Information Technology Department, is responsible for operating and maintaining this website

## GO GREEN! TECHNICAL ADVISORY COMMITTEE

The Go Green! Program has previously organized an informal Technical Advisory Committee called by the CAO's office to help guide Go Green! Program. The Committee will meet quarterly, or as needed, to ensure coordination across departmental lines and to help guide the program on technical matters with regards to sustainability. The Go Green! Technical Advisory Committee members will be comprised of representatives from the following departments:

- Agricultural Commissioner
- CAO – Intergovernmental and Legislative Affairs
- Contracts/Purchasing
- County Counsel
- Environmental Health
- Health Department
- Human Resources – Learning and Organizational Development
- Information Technology Department
- Natividad Medical Center
- Resource Management Agency, Public Works
- Resource Management Agency, Planning and Parks
- Resource Management Agency, Facilities
- Water Resources Agency

### EXPECTED OUTCOMES:

- Facilitate close working relationships between Monterey County departments and the Go Green! Program
- Create collaborative recommendations and guidance regarding current and future projects for the Go Green! Program
- Identify the need for technical tasks and solutions necessary to support the activities of the Go Green! Program
- Create organizational acceptance of an overall vision of sustainability for Monterey County
- Ensure that updates from departments on measured outcomes from projects, including sustainability initiatives, are provided in a timely manner

### GUIDING PRINCIPLES:

- Promote change and acknowledge areas which could benefit from sustainability improvements throughout the County organization, as well as the County as a whole
- Encourage cross-departmental cooperation to improve sustainability initiatives
- Encourage broad communication and support among stakeholders
- Maintain transparency throughout processes, decision making, and reports to the AEE and Board of Supervisors

## Key Program Projects – Vision 2019

The projects that are outlined below are intended to provide an overview of the main activities that the Go Green! Program will be engaged in within the next three fiscal years. The Go Green! Program will make efforts to keep up with the rapidly changing landscape of sustainability within the Monterey Bay Region to ensure that best practices are being applied to all aspects of the Go Green! Program operations. In that endeavor, revisions to Key Projects along with the addition of new projects may occur and will continue to promote the success and flexibility of the program.

### Monterey County Facilities Solar Project

Energy can be produced by onsite solar panels to directly offset a portion of the energy load (and associated costs) related to operation of Monterey County facilities. This will aim to reduce utility costs and greenhouse gas emissions from County Operations through solar energy generated on-site. The Go Green! Program will collaborate with the Resource Management Agency (RMA) in the pre-planning and vendor selection phases of the Monterey County Solar Project, where a vendor will be selected who will be responsible for the design and construction of the solar installation (RMA-Facilities will oversee construction and project management).

	<b>Objective</b>	Coordinate a County solar project to provide energy and cost savings at County facilities.		
	<b>Responsible Department</b>	RMA – Facilities & Go Green! Monterey County		
	<b>Collaborators</b>	Association for Monterey Bay Area Governments (AMBAG) – Energy Watch		
	<b>Timeframe</b>	FY 2016-17 – FY 2017-18		
	<b>Program Area</b>	Program Area #1 - Resource Conservation, Climate Adaptation, and Pollution Reductions		
	<b>SUMMARY</b>	<b>PERFORMANCE MEASURE</b>	<b>MEANS OF VERIFICATION</b>	<b>RISKS</b>
<b>Outputs</b>	1. Pre-planning, vendor selection, and overseeing implementation (RMA - Facilities) of the solar project	Percentage of project targets and milestones completed	Project tacking database	Financing model costs more in the long term than energy purchased from utility; rate structure changes resulting in unfavorable energy credits, Unforeseen fees and costs related to using solar energy
	<b>Outcomes</b>	1a. Reduction of the County's utility costs	Dollars saved as a direct result of the solar installation	
1b. Offset the County's GHG emissions		Estimated pounds of GHG emissions reduced	GHG emissions modeling software provided by solar company	
	1c. Solar project meets or exceeds the expected return on investment and payback period	Percent towards meeting projected return on investment	Projected annual benchmarks for payback period and return on investment is met	



## Municipal Climate Action Plan (MCAP) Indicator Tracking and Update

Section OS-10.15 of the Conservation/Open Space Element of the Monterey County General Plan (2010) outlines the County’s goal to adopt a GHG reduction plan with the goal to reduce GHG to emissions to 15% below 2005 levels by 2020. In 2013, the Monterey County Board of Supervisors adopted the Municipal Climate Action Plan (MCAP). To ensure the implementation of the MCAP, a systematic process and method of measurement and verification will be developed to track all Countywide projects and identify areas of improvement. This requires County utility bill data and transportation data to be tracked, benchmarked, and compared to the 2005 baseline. In addition, the Go Green! Program will incorporate energy saving upgrades from projects that were completed after the creation of the MCAP, but were not included in the MCAP measures. Countywide data will be collected in one database and analyzed to capture GHG emissions reductions in a consistent fashion. Energy and GHG emissions metrics will be displayed through a dashboard interface and featured on the Go Green! Website.

	<b>Objective</b>	1) Provide Monterey County with accurate information on the effectiveness of the County’s GHG reduction efforts; 2) provide an update to the County’s current percent reduction in GHG emissions from the 2005 baseline in accordance with General Plan policy OS-10.15; and 3) provide insight into future implementation actions required to accomplish 2020 and 2030 GHG reduction goals		
	<b>Responsible Department</b>	CAO-IGLA Go Green! Program		
	<b>Collaborators</b>	RMA – Public Works, Facilities and Planning; Association of Monterey Bay Area Governments (AMBAG)		
	<b>Timeframe</b>	Update Due Q1 2017; Continuous involvement FY 2016-17 – FY 2018-19		
	<b>Program Area</b>	Program Area #1 - Resource Conservation, Climate Adaptation, and Pollution Reductions Program Area #2 - Organization-Wide Culture Shift		
	<b>SUMMARY</b>	<b>PERFORMANCE MEASURE</b>	<b>MEANS OF VERIFICATION</b>	<b>RISKS</b>
<b>Outputs</b>	1. Track countywide energy and GHG emissions metrics through a database	Percent of the measures listed in the MCAP that have been completed	<a href="#">See MCAP (2013) section 3.2 for listing of measures</a>	Missing data or unknown measures affecting this project
	2. Survey of Monterey County employee commutes and modes of transportation	Percent of Monterey County employees surveyed	Survey Monkey	Length of time required to collect results
	3. Implement an online energy dashboard that displays Countywide energy reductions for MCAP progress tracking	Percent completion of the energy dashboard	Based off the CIP annual report and the owned and leased facilities inventory	Potential budget constraints hindering the quality of the dashboard; Inconsistent data affecting the year-to-year results
<b>Outcomes</b>	1a. Status Report on the Monterey County MCAP	Percent of report tasks completed	Project tacking database	Unforeseen issues or missing data prolonging the update of the report
	2a. Launch a publicly available energy dashboard	Number of unique visitors to the energy dashboard page on the Go Green! Website	Google Analytics or similar website analytics platform	Inaccurate analytics data; lack of transparency or clarity of the public

## Monterey Bay Community Power Project Support

Monterey Bay Community Power (MBCP) is a regional Community Choice Aggregation initiative, which allows member jurisdictions in the tri-county region of Monterey, Santa Cruz, and San Benito counties to pool the electrical load of customers to procure cost competitive and clean-sourced electric energy on behalf of customers. MBCP supports the County's efforts to reduce greenhouse gas emissions, and provide economic benefits to Monterey County residents.

From December 2015 - March 2017, the Go Green! Program and staff from County Counsel, the Auditor-Controller's office, and CAO-Budget and Analysis Division led a due diligence investigation into the MBCP proposal. Staff provided monthly updates to the Alternative Energy and Environment Committee (AEE) and brought the project to the Board of Supervisors for direction. On March 7, 2017, the Board of Supervisors adopted a resolution approving the MBCP Joint Powers Agreement, establishing the County of Monterey as a founding member of the MBCP Authority. On behalf of the County, the Go Green! Program staff will continue to act in a supportive role, as needed, during the start-up phases of the MBCP JPA.

	<b>Objective</b>	Provide analytical support on behalf of County stakeholders during initial start-up phases of the MBCP Joint Powers Authority		
	<b>Responsible Department</b>	CAO-IGLA (Go Green! Monterey County Program)		
	<b>Collaborators</b>	Agricultural Commissioner, Auditor-Controller, CAO-Budget & Analysis, County Counsel, Economic Development, RMA, Treasurer Tax Collector, and Water Resources Agency		
	<b>Timeframe</b>	FY 2016-17 – FY 2018- 17		
	<b>Program Area</b>	Program Area #1 - Resource Conservation, Climate Adaptation, and Pollution Reductions		
	<b>SUMMARY</b>	<b>PERFORMANCE MEASURE</b>	<b>MEANS OF VERIFICATION</b>	<b>RISKS</b>
<b>Outputs</b>	1. Analyze potential outcomes of recommendations from the MBCP JPA			
<b>Outcomes</b>	1a. County stakeholders provide vetted recommendations to JPA Governing Board	Percent target due dates met	Project timeline	More labor and resources required than anticipated; process takes longer than expected due to complexity of issues and number of agencies potentially involved

## Monterey County Electric Vehicle (EV) Program

Currently, the County owns and operates ten EVs and 12 charging stations spread across four different locations. Due to the lack of infrastructure and “driver range anxiety”, EVs are currently underutilized. The first step in building the County’s EV program is to understand the transportation needs of the County to identify where EVs can be utilized, as well as educating County staff to properly use EVs. Under the guidance of Fleet Management, the Go Green! Program will collaborate with other departments (to be determined) and outside agencies, such as the Monterey Bay Air Resources District, to enhance the EV program by assessing the needs of the County and educating staff.

	<b>Objective</b>	Enhance utilization of Electric Vehicles throughout the Monterey County Organization to reduce GHG emissions and air pollution from Fleet vehicles		
	<b>Responsible Department</b>	Fleet Management		
	<b>Collaborators</b>	Go Green! Program; RMA Facilities		
	<b>Timeframe</b>	FY 2016-17 – FY 2018-19 (Projected)		
	<b>Program Area</b>	Program Area #2: Organizational-wide Culture Shift		
	<b>SUMMARY</b>	<b>PERFORMANCE MEASURE</b>	<b>MEANS OF VERIFICATION</b>	<b>RISKS</b>
<b>Outputs</b>	1. Educate Monterey County staff through trainings and outreach	Percent of County Staff engaged in training/outreach	Staff Reporting	Staff time and resources outweigh the benefits to education of staff
	2. Launch a Countywide needs assessment/ study	Number of employees who have taken the survey	Survey Analytics	Lack of department participation in the needs assessment
<b>Outcomes</b>	1a. Decreased “EV range anxiety” of Monterey County Staff	Miles driven by County Fleet EVs	Vehicle miles tracking software	Education efforts does not result in a shift of EV use
	1b. Gain understanding of the transportation needs and challenges throughout the County to provide direction to the existing EV program	Number of Monterey County Departments targeted	Staff Reporting	Needs assessment study does not provide the adequate information to address the issues
	2a. Potential EV charging station locations are identified throughout County properties	Number of charging stations identified on County property	Staff Reporting	Lack of funds and interest from Monterey County Departments to commit to EV infrastructure operations and maintenance
	2b. County departments are identified for EV infrastructure operations and maintenance responsibilities	To Be Developed	Staff Reporting	

## Countywide Sustainability Initiatives

Through department interviews and the collaboration of the Technical Advisory Committee, the Go Green! Program has identified current sustainability projects, initiatives, and strategies that have been undertaken by various Monterey County Departments. The matrix in this section is the first step for the Go Green! Program to monitor and track these various sustainability activities, which have been categorized in one of the three Go Green! Program Areas. A description for each element in the matrix is as follows:

- **Program/Plan** – What County-adopted plan or program elevated the Project/Initiative/Strategy into policy or ordinance (GP = General Plan; MCAP = Municipal Climate Action Plan)
- **Project/Initiative/Strategy** – the name and/or a short description of the Project/Initiative/Strategy
- **Responsible Department** – the lead agency responsible for implementing the initiative
- **Policy/Plan Reference** – What section of the County Policy/Plan relates to this project (e.g. OS-10.15 refers to section 10.15 of the Conservation and Open Space element of the General Plan)
- **Implications** –The expected outcomes resulting from this effort
- **Status** – The current status of the Project/Initiative/Strategy
- **Measured** – How metrics are measured (if applicable)
- **Related Areas** – Identifies which other areas this effort could fall under

Program Area #1: Resource Conservation, Climate Adaptation, and Pollutions Reduction							
Program/Plan	Initiative	Responsible Department	Policy/Plan Reference	Implications	Status	Measured	Related Areas
N/A	Sustainable Landscaping Practices on Ag. Comm. facilities	Agricultural Commissioner	N/A	Water consumption reductions, waste Reduction	Implemented in 2012	N/A	
MCAP; GP	Utilize water saving fixtures in Ag. Comm. facilities	Agricultural Commissioner	Goal PS-1; OS-10.10	Water consumption reductions	Implemented in 2012	N/A	
MCAP	Vehicles (electric/hybrids) – Incorporate hybrids into fleet	Agricultural Commissioner	OS-10.6; OS-10.15	Reduced fuel use; GHG reductions	-Added vehicles to Ag fleet in 2014/15 -Challenges with range of vehicles for work use (ag routes). Lack of fast charging stations an issue.	Fleet mileage tracking	2
N/A	Maintenance – Purchase greener vehicle products	Fleet	N/A	Toxics reductions in County vehicles	Policy drafted; awaiting approval	N/A	
MCAP; GP	Alternative Fuel Vehicles Purchasing	Fleet	OS-10.2; OS-10.6; OS-10.15	Reduced fuel use; GHG reductions	-As of 2015, 14% of Fleet Vehicles are Alternative Fuel Vehicles -Electric Vehicle purchases: 2014/2015 -9 Electric Vehicles in County Fleet as of 2016	Fleet mileage tracking	2
MCAP GP	Electric Vehicle (EV) Infrastructure	Fleet, Health Department, RMA	OS-10.2; OS-10.15	EV Charging stations installed and maintained, promotes the use of EV for County employees and the Public	-EV Charging stations located at the Government Center and Schilling Place. -Soon to be installed at Health Department	To Be Developed	
GP	Graywater Irrigation System policy	Health Department - Environmental Health	PS-3.1; PS-3.2	Reduced Water; Greywater infrastructure supported by County	Implemented; Permits available online in 2015	To Be Developed	3

**Program Area #1: Resource Conservation, Climate Adaptation, and Pollutions Reduction (cont.)**

Program/Plan	Project/initiative/Strategy	Department	Policy/Initiative Reference	Implications	Status	Measured	Related Areas
GP	DhaaniStar Systems Computer Energy Mgmt. Program	ITD	OS-10.15	Energy Efficiency; Reduced plug load energy consumption	Currently in pilot. Implementation TBD	kWh and \$ saved tracked by the DhaaniStar program	2
GP	Drought tolerant landscaping	ITD; RMA - Facilities	Goal PS-1; OS-10.10	Water consumption reductions	Reduced our irrigation usage by 60% through reduced watering and repairs of irrigation systems	N/A	
GP	E-waste reuse and recycling	ITD	Goal PS-5; PS-5.1; PS-5.4; PS-5.5	Toxics reductions; waste reduction	ITD continuously acts as centralized area for collection of e-waste	N/A	2
GP	Exterior/Interior Lighting Upgrade (LED)	ITD	OS-10.15	Electricity load reductions through lighting efficiency	Exterior Lighting completed. Interior included in CIP	N/A	
GP	HVAC and cooling system upgrades for Data Center	ITD;	OS-10.15	Electricity load reductions through HVAC efficiency	One Unit has been replaced. Second is included in CIP	N/A	
N/A	Install satellite/internet based irrigation control	ITD; RMA – Facilities	N/A	Water consumption reductions	Irrigation system completed	N/A	
GP	Lighting Controls – Occupancy Sensors	ITD; RMA – Facilities	OS-10.15	Electricity load reductions through lighting efficiency	Included in CIP interior	N/A	
GP	Virtual Server Environment	ITD	Goal PS-5; PS-5.1; PS-5.5	Paper reductions; waste reductions	In Progress: 60 Virtual Servers in place. 290 Physical Servers Remain	N/A	2
GP; MCAP	Energy Audit (Heat Program)	NMC	OS-10.15	Energy efficient opportunities will be identified	-Energy audit approved FY 2016/17 -Energy audit to take place in FY 2016/17	Potential Energy, GHG, and dollar reductions through audit measured	
GP	Large Scale Recycling – Proper disposal of medical waste	NMC	Goal PS-5; PS-5.1; PS-5.4; PS-5.5	Waste diversion	To Be Determined	To Be Developed	2
GP	Monterey County Parks Recycling Grant	Parks; CAO-IGLA Strategic Grants Services	Goal PS-5; PS-5.1; PS-5.4; PS-5.5	Enhanced recycling infrastructure (e.g. new recycling receptacles, collection truck)	-Grant resolution approved by BoS -Grant Submitted FY 2016/17 -Grant approved for \$249,000	Dollars awarded through grant, Waste diverted from landfill	
MCAP; GP	County Vanpool Program	RMA	C-2.4; C-3.5; C-6.5; OS-10.6; OS-10.15	Reduced fuel use; GHG reductions	Currently 3 operating Vanpools	Vanpool ridership tracked	2
N/A	Controlled pesticide use	RMA-Parks	N/A	Toxics reductions; healthier environment	Continuous implementation of Pesticide Control	Monthly reports to Ag Comm	
GP	Recycling program	RMA-Parks	Goal PS-5; PS-5.1; PS-5.4; PS-5.5	Waste diversion	Implemented in 2004/2005	TBD	
GP	Water reduction measures at Monterey County RMA - Parks	RMA-Parks	Goal PS-1; PS-5.4	Water consumption reductions; Upgrading irrigation stations	In need of advancement, water saving efforts have been hampered by funding restraints	Water consumption is tracked	

**Program Area #1: Resource Conservation, Climate Adaptation, and Pollutions Reduction (cont.)**

Program/Plan	Project/initiative/Strategy	Department	Policy/Initiative Reference	Implications	Status	Measured	Related Areas
MCAP; GP	HVAC commissioning and retrofits: Energy Efficiency Measures-Phase II-Public Safety Building & Correctional Facilities.	RMA-Facilities	OS-10.15	Energy load reductions through HVAC efficiency	In Progress, Pre-construction	To Be Developed	
MCAP; GP	Installing controls (Direct Digital Controls, etc.): Energy Efficiency Measures (EEM)-Phase I; Animal Shelter, Public Safety Building, Correctional Facilities	RMA-Facilities	OS-10.15	Energy Load reductions through enhanced building controls and scheduling	Completed 2015	To Be Developed	
MCAP; GP	Landscape practices (Drought tolerant plant implementation and Irrigation)	RMA-Facilities	Goal PS-1; OS-10.10	Water consumption reductions	Ongoing implementation	To Be Developed	
MCAP; GP	Lighting retrofits: Energy Efficiency Measures (EEM)-Phase I-Social Services, Marina; Agricultural Commissioner Offices, Coastal Commission Offices, Animal Shelter, Laurel Yard.	RMA-Facilities	OS-10.15	Electricity load reductions through lighting efficiency	Completed 2015	To Be Developed	
MCAP; GP	Solar project at the Laurel Yard	RMA-Facilities	OS-9.1; OS-10.15	Utility bill reduction; GHG reduction. 141 MW of solar power	Completed 2012	Energy dashboard system tracking energy generation	
GP	Mowing and tilling practices	RMA-Facilities	Goal PS-5; PS-5.1; PS 5.4; PS-5.5	Waste diversion; Composting	Standard landscape Operating Procedures	N/A	
MCAP; GP	Water saving fixture installation in County facilities	RMA- Facilities; Agricultural Commissioner	Goal PS-1; OS-10.10	Water consumption reductions	Ongoing implementation	To Be Developed	
GP	Community Climate Action Plan (CCAP)	RMA-Planning	OS-10.11	Sustainable community enhancement; reduced Countywide energy consumption; reduced Countywide GHG emissions	Currently under development: RMA working with Consultant to model GHG emissions for the County	To Be Developed	3
GP	Municipal Climate Action Plan (MCAP)	RMA-Planning; Go Green! Program	OS-10.15	GHG reductions for County Organization; healthier work environments; reduced utility costs	-Draft Completed in 2013 -Update to the draft due FY 2016/17 - Final Update 2020	GHG emissions reductions from measures recommended in the MCAP	
North County Land Use Plan	Sea Level Rise Vulnerability Report and Moss Landing Community Plan	RMA – Planning	Local Coastal Program Update (LCP)	Report will provide important information to protect the Monterey County coastline. The information from the report may be incorporated into the Moss Landing Community Plan which is currently being updated	Grant received from CA Natural Resources Agency, Department of Land Resource Protection -Report still currently in draft phase	To Be Developed	
MCAP; GP	Energy Efficiency Measures and Implementation-Submetering of the Government Center Campus	RMA-Public Works	OS-10.15	Reduced Energy load	Study Concluded 2015	To Be Developed	
GP	Energy Efficiency Measures and Implementation-Submetering of the Government Center Campus	RMA-Public Works	OS-10.15	Energy Efficiency through Reduced Energy load	Study Concluded 2015 Next Steps TBD	To Be Developed	

**Program Area #1: Resource Conservation, Climate Adaptation, and Pollutions Reduction (cont.)**

Program/Plan	Project/initiative/Strategy	Department	Policy/Initiative Reference	Implications	Status	Measured	Related Areas
GP	New Juvenile Hall – CalGreen Tier 1	RMA-Public Works	OS-10.12; OS-10.15	Green building practices; reduced energy loads; healthier indoor air environment	In Progress/In design	To Be Developed	
GP	San Lucas Library LEED Silver Certification	RMA-Public Works	OS-10.12; OS-10.14; OS-10.15	Green building practices; reduced energy loads; healthier indoor air environment	In Progress /Under Construction	To Be Developed	
GAP	Integrated Regional Water Management Plan (IRWMP)	Water Resources Agency; Agricultural Commissioner; RMA	N/A	-Groundwater sustainability along with water quantity and quality management for agricultural, municipal, industrial and environmental needs -Educational opportunities provided to the public in the form of stakeholder outreach	-Currently working with various entities reviewing grant proposals for wastewater treatment and water quality improvement measures outlined in the approved plan. -On-going / dependent on the timings of specific project implementations	N/A	3
N/A	Sustainable Groundwater Management Act (SGMA)	Water Resources Agency; CAO	N/A	-New paradigm surrounding the use of groundwater in the county. Since water is an integral part of economies and the quality of life in Monterey County, effects of changes in water use are to be determined -Educational opportunities provided to the public in the form of stakeholder outreach	WRA is part of a Collaborative Working Group to facilitate the formation of a Groundwater Sustainability Agency (GSA) by June 30, 2017	TBD	3
N/A	Salinas and Carmel River Basins Study	Water Resources Agency; MPWMD; MRWPCA; SLO County	N/A	Climate Change evaluation for the Salinas and Carmel River basins Educational opportunities provided to the public in the form of stakeholder outreach	Scope of Work for the grant is being developed	TBD	3

**Program Area #2: Organization-wide Culture Shift**

Program/Plan	Project/initiative/Strategy	Department	Policy/Initiative Reference	Implications	Status	Measured	Related Areas
N/A	Climate friendly purchasing policy	Contracts and Purchasing	N/A	Toxics reductions; waste reduction	Board adopted policy written in 2011	N/A	1
GP	Surplus Program	Contracts and Purchasing	Goal PS-5; PS-5.1; PS-5.5	Reduced office equipment purchasing and waste reductions	-Established in 2011 -Policies updated in 2016 -Found in Standard Operating Procedures Manual	N/A	1
GP	County Motor Pool	Fleet	OS-10.2; OS-10.6; OS-10.15	Promotes department vehicle sharing, reduced number of vehicles owned by individual departments	Established in 2014; continuously implemented	All County vehicles mileage is tracked through data collection	1
GP	MB Bay Area Green Business Program	Health Department - Environmental Health	OS-10.11; OS-10.15	Sustainable behavior change and employee education; county employee education; energy reductions; waste diversion	County membership in the Green Biz Program Renewed as of March, 2017	Estimates number of GHG emissions reduced, kWh saved, and \$ saved through program efforts	1, 3

**Program Area #2: Organization-wide Culture Shift (cont.)**

Program/Plan	Project/initiative/Strategy	Department	Policy/Initiative Reference	Implications	Status	Measured	Related Areas
GP	Monterey County Waste and Recycling Study	Health Department - Environmental Health, Go Green! Program, Contracts/Purchasing, and RMA – Facilities	Goal PS-5; PS-5.1; PS-5.4; PS-5.5	Assessment of Monterey County Recycling needs; recommendations for future actions to promote Countywide recycling efforts	Initial study complete as of March 2017; ongoing efforts TBD	Study measures waste stream volume	1

**Program Area #3: Community Outreach and Education**

Program/Plan	Project/initiative/Strategy	Department	Policy/Initiative Reference	Implications	Status	Measured	Related Areas
N/A	“Highlighting Conservation” White Paper Series	Agricultural Commissioner	N/A	Community education on sustainability	Released 2014-15, ongoing posting on Ag Comm website.	N/A	
N/A	Agriculture Water Quality Alliance (AWQA)	Agricultural Commissioner	N/A	Ag community education on water quality and ag stewardship programs	Participating in ongoing educational meetings	N/A	
N/A	Link Farm Equipment Screening Upgrade Tool for download.	Agricultural Commissioner	N/A	Resource for farmers to make decisions on GHG reductions through equipment replacement	Created in 2009 Continuously featured on Ag Comm. Website	TBD	1
N/A	Internet resources on air quality, water, food, and community events	Agricultural Commissioner	N/A	Community education on sustainability	Ongoing	N/A	
N/A	Issue PSAs on Conservation Practices	Agricultural Commissioner	N/A	Community education on sustainability	Ongoing	N/A	
N/A	Resource Conservation District - education, erosion reduction measures, invasive weed removal programs	Agricultural Commissioner	N/A	Facilitates projects to address water quality, biodiversity, ecosystem health, and sustainability	Ongoing contract to implement these programs through Ag Comm office	N/A	
N/A	Ag Expo	Agricultural Commissioner, RMA	N/A	Community education on sustainability exclusively for Hispanic growers	Held annually	N/A	
N/A	Energy Efficiency & Recycling Resources for Local Businesses	Economic Development	N/A	Through links featured on website, businesses can be directed to PG&E financing programs, AMBAG Energy Watch, CalRecycle, and Federal and State Energy Resource Programs	Featured in FY 2015/16 Webpage Consistently updated and maintained	Website traffic tracked through Google Analytics	1
N/A	TeleHealth	Health Department	N/A	Reduced fuel use and miles driven; GHG reductions within community	Currently offered to the public	N/A	1
Health Dept. Strategic Plan	Health in All Policies	Health Department	N/A	Promotes strategies for healthier and more sustainable communities	-Adopted as part of Health Department strategic plan. -Partnering with Salinas on the Alisal Vibrancy Plan (still in development) -Launching indicator tracking dashboard (FY 2016/17)	Measured tracked through dashboard system	1
GP	Clean-up day	Health Department - Environmental Health	OS-10.10	Healthier and more sustainable communities; reduced toxics and landfill vouchers distributed to public	Held annually near Earth Day	N/A	1



**Program Area #3: Community Outreach and Education (cont.)**

Program/Plan	Project/initiative/Strategy	Department	Policy/Initiative Reference	Implications	Status	Measured	Related Areas
GP	Recycling Resource and Recovery Services (RRRS)	Health Department - Environmental Health	Goal PS-5; PS-5.1; PS-5.4; PS-5.6	Waste diversion; Outreach Events	During the 2015 calendar year, RRRS coordinated and held 94 Reusable bag Ordinance outreach and education events, 50 Used oil Educational events and participated in 41 general recycling educational events.	# of annual waste assessments & public outreach events completed	1, 2
GP	Polystyrene and Bag Ordinance	Health Department - Environmental Health	Goal PS-5; PS-5.1; PS-5.4; PS-5.5; Ordinance 52.44	Waste Reduction; healthier communities	Implemented: March 2015	N/A	1
GP;	Catering and events – Zero Waste	RMA - Parks	Goal PS-5; PS-5.1; PS-5.6	Events held at Monterey County RMA - Parks need to comply with recycling practices regulated through event permits.	Standard operations and for all events requiring permits	N/A	1
GP	Expedited and discounted residential solar permits for rooftops	RMA – Building Services	OS-9.1; OS-10.11; OS-10.13	Residential Solar projects are supported through discounted solar rooftop permits and expedited permit processes	Expedited Solar Permit Program Implemented	Number of Permits tracked	1

## Potential Future Projects

Future projects listed below were gathered from the input and collaboration from the Go Green! Technical Advisory Committee, the Alternative Energy and Environment Committee, the Monterey County Board of Supervisors, County Staff, and other County stakeholders. Future project timelines have not yet been determined.

**Future Projects in Program Area #1: Resource Conservation, Climate Change Adaptation, and Pollution Reductions**

Project	Other Department Involvement	Description
Community Climate Action Plan (CCAP) collaboration	RMA – Planning, Health	<ul style="list-style-type: none"> <li>• Integrated Health in-All Policies and strategies</li> <li>• Indicator tracking</li> <li>• Develop community-wide goals</li> <li>• Updating the document</li> <li>• Outreach (employees and community)</li> </ul>
Cal Water Meter Study for County RMA - Parks	RMA - Parks	<ul style="list-style-type: none"> <li>• Reduce 4 unnecessary meters</li> <li>• Could potentially save \$12,000 annually</li> <li>• Requires capital to remove meters</li> </ul>
Reduce water use in County Facilities	RMA – Facilities	<ul style="list-style-type: none"> <li>• Smart Irrigation</li> <li>• Water fixture efficiency</li> </ul>
Find funding for departments for Sustainability projects	CAO – IGLA Strategic Grants Services	<ul style="list-style-type: none"> <li>• Grants, sponsorship, etc.</li> </ul>
Green Tech or STEM Battery Storage	RMA – Facilities	<ul style="list-style-type: none"> <li>• Reduce ‘peak demand’ cost in buildings through energy storage</li> <li>• Financing mechanisms and funding opportunities</li> </ul>
Water Collection Systems	RMA – Planning; RMA – Building Services	<ul style="list-style-type: none"> <li>• Support citizen water collection</li> <li>• Subsidiary water barrels</li> </ul>

**Future Projects in Program Area #2: Organization-Wide Culture Shift**

<b>Project</b>	<b>Other Department Involvement</b>	<b>Description</b>
Educate Monterey County employees about sustainability	TBD	<ul style="list-style-type: none"> <li>• Trainings, certifications, etc.</li> <li>• MB Area Business Certification Program</li> <li>• Focus on Energy, Water, and Waste</li> <li>• Assess Sustainability problem areas and provide resources to mitigate these issues</li> <li>• Identify sustainability champions throughout County departments</li> </ul>
Fleet Utilization	Fleet	<ul style="list-style-type: none"> <li>• Regional maintenance facility</li> <li>• Track GHG emissions resulting from the use of Alt. Fuel Vehicles</li> </ul>
Video Conferencing and telecommuting polices	ITD	<ul style="list-style-type: none"> <li>• Reduce vehicles miles driven to and from meetings</li> </ul>
General Plan development of sustainability related Ordinances	RMA – Planning	<ul style="list-style-type: none"> <li>• Climate and environment related ordinances</li> <li>• Health and climate ordinances</li> </ul>
Wellness Programs sustainability	Health Dept. RMA - Parks	<ul style="list-style-type: none"> <li>• Policies and regulations</li> <li>• Integrate incentives and discounts</li> </ul>
Inter-agency review group	Multiple departments - TBD	<ul style="list-style-type: none"> <li>• Suggest best practices</li> <li>• Education tool for information</li> <li>• Featured online</li> </ul>
Implement policy on Sustainability Certifications for Public works and other staff	RMA – Arch. Services, RMA - Planning	<ul style="list-style-type: none"> <li>• LEED, Certified Energy Managers, Building Professionals Institute, etc.</li> </ul>
Tenant improvements at County leased facilities to include sustainability standards	RMA - Planning	<ul style="list-style-type: none"> <li>• Keep up with County-owned Indoor Environmental Quality (IEQ) standards</li> </ul>
Develop indoor environment quality standards for ALL County workspaces	RMA – Arch. Services, RMA - Planning	<ul style="list-style-type: none"> <li>• IEQ oversight</li> <li>• IEQ Policies (purchasing, construction, etc.)</li> </ul>
Implement 'Digital View Only' policies for documents over a certain size	TBD	<ul style="list-style-type: none"> <li>• Utilize digital file and data storage services</li> <li>• Reduce paper use</li> </ul>
Sustainability and HiAP planning process checklist for different County departments	Health Dept.	<ul style="list-style-type: none"> <li>• Integrate sustainability and health components into county planning processes</li> </ul>

**Future Projects in Program Area #3: Community Outreach and Education**

<b>Project</b>	<b>Other Department Involvement</b>	<b>Description</b>
Countywide energy efficiency program outreach	TBD	<ul style="list-style-type: none"> <li>• Resources to public</li> <li>• Outreach and education</li> </ul>
Sustainable Transportation Initiatives	TBD	<ul style="list-style-type: none"> <li>• Public and alternative transportation</li> <li>• Car sharing</li> </ul>
MC Air Pollution Control Dist. Citizen vouchers for electric vehicles	TBD	<ul style="list-style-type: none"> <li>• Public Awareness</li> <li>• Grant for public and local government now available</li> </ul>

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