## FINAL DRAFT

# Cíty of Santa Cruz

# Final Draft Appendix of Action

December 2011

### 1000 Steps (or 256 Actions) To Meet Our Goal

This CAP Appendix of Actions provides a list of actions that improve ways the City and community uses and generates energy, focuses on the adoption of sustainable practices, and invests in a future that is 80% less carbon-intense. These actions are considered feasible and many have been tested and proven elsewhere as effective tools for the job.

Note: Table columns listing timeframe for implementation (example timeframe provided for several actions), key City contacts, potential partners, costs, and GHG reduction potential have been estimated using local and State data. Actions written in *italics* are new or significantly modified based on public comments and recommendations.

al Measures	Actions	Time Frame for Implementation	Primary Department(s)	GHG Reducti Potential (M of CO2e)
apter 4. ENERGY USE IN THE B	UILT ENVIRONMENT			UI COZE)
al: Significantly reduce energy	use in municipal, residential and commercial buildi	ngs.	•	1
1. Formalize a Santa Cruz	a. Hire and support a staff person to evaluate additional	Short	Fleet & Facilities	in M2
Municipal Energy Management Office to coordinate energy use practices, efficiency upgrades, and	energy saving opportunities in City buildings. Provide training in energy efficiency and green building methods.	Short	Operations	111 1112
future investments in renewable energy among departments and	b. Seek funding to continue Energy Office staffing.	Short	Fleet & Facilities Operations	
services.	c. Establish individual building and facility goals for energy use reductions with incentives for meeting those goals. Report back to departments periodically on goal attainment.	Short	Energy Management Office	
	d. Designate an Energy Management Office liaison for each City functional use.	Short	Energy Management Office	
	e. Evaluate opportunities to leverage municipal energy cost savings towards additional investments in energy system upgrades.	Medium	Energy Management Office	
	f. Continue to improve energy use tracking and reporting procedures.	Medium	Energy Management Office	
	g. Optimize municipal energy use and address deferred maintenance.	Long	Fleet & Facilities Operations	
2. Implement the Energy Efficienc Conservation Strategy (EECS) to	management strategies.	Complete	Energy Management Office	553
reduce energy use in municipal buildings by an additional 40% by		Short	Energy Management Office	
2020.	c. Coordinate EECS activities among departments to identify funding mechanisms and to research and identify new energy efficiency opportunities, products, and technologies for municipal infrastructure and City services.	Medium	Energy Management Office	
	d. Design and implement energy load management and demand response systems for City departments and report annually on EECS results.	Medium	Energy Management Office	
	e. Meet most recent energy efficiency requirements when remodeling or building new municipal buildings.	Medium	Fleet & Facilities Operations	
	f. Establish a minimum level of energy efficiency required for new and extensively remodeled municipal buildings.	Medium	Fleet & Facilities Operations	
3. Integrate new energy efficient equipment and reduction measure into the EECS for the wastewater	s energy efficiency plan to reduce energy use and emissions.	Medium	Public Works	416
treatment and collection system to reduce energy use 10% below 200 values.	b. Evaluate options for the most cost effective and efficient	Short	Public Works	
	c. Evaluate cost effective options to convert City services to low carbon alternatives.	Medium	Public Works	
<ol> <li>Integrate new energy efficient equipment and reduction measure into the EECS for the Water Department to reduce energy use 10% below 2005 values.</li> </ol>	a. Identify and implement additional energy efficiency s upgrades for pumps, equipment, and other measures.	Medium	Water Department	148
5. Integrate new energy efficient equipment and reduction measure into the EECS for the Information Technology Division to reduce energy use 10% below 2005 values		Medium	IT	40
<i>IDENTIAL SECTOR</i> 1. Increase market penetration of	a. Provide support and incentives to increase the percentage	Long	Green Building	1,017
the Green Building Program to 10 of residential buildings by 2020.		Long	Green bununing	1,017

	1	INAL DRAFT - City of Santa Cruz Climate Action Plan - Ta			
		b. Establish a Green Building Award option for residents who participate in programs such as AMBAG Energy Watch and Home Energy Rating System audits that achieve a 30% reduction in energy and/or water use within their current residences.	Medium	Green Building	
		60 <i>'</i>			
		c. Integrate solar finance district development and	Medium	Green Building,	
		implementation with Green Building Program.		Climate Action	
		d. Compile guidance materials regarding new building	Medium	Green Building	
		techniques and materials that enhance conservation, high			
		efficiency and zero waste.			
		e. Develop an information packet on the value of energy efficiency	Short	Green Building	
		upgrades to homes and apartments at time of sale or lease. Provide			
		information packet to local realtors.			
		f. Support development and distribution of an energy use	Long	Green Building	
		report card for homes.			
		g. Continue to revise Green Building Program to incorporate new technologies and best management practices.	Ongoing	Green Building	
		h. Develop energy usage reporting methods and tools for	Medium	Green Building,	
		renters and home owners. <i>i Integrate City Tree Programs with Green Building Program to</i>	Short	Climate Action Green Building, Parks	
		include guidance on tree species that enhance climate-responsive performance of buildings.	SHOL	and Rec	
		j. Work with Ecology Action to add information to the existing	Short	Green Building	
		Green Building kiosks on the value of Home Performance.	Short		
	2. Partner with others to create tools	a. Create or expand current programs that provide energy	Medium	Climate Action	396
	and incentives for landlords to	efficiency audits and retrofits for off campus student and			
	invest in home weatherizing and	other rental housing. (AMBAG, Central Coast Energy			
	energy efficiency upgrades for off	Services, Ecology Action, UCSC Student Services)			
	campus student housing to obtain				
	50% penetration of the 52% of UC	b. Investigate grant and other funding to provide energy	Long	Climate Action	
	Santa Cruz students who live off	retrofit incentives to student off campus housing.	0		
	campus by 2020.				
		c. Integrate the Climate Action Teams Program with current	Medium	Climate Action	
		Education for Sustainable Living; providing tools and			
		opportunities for students to create their own climate action			
		plans while in school and going forward.			
			Tana	Clines to Astism	
		d. Support UC Student Services efforts to create a "green" off	Long	Climate Action	
		campus rating system. e. Work with UC Sustainability office to create programs to	Medium	Climate Action	
		invest in solar electric and hot water systems for rental	Medium	Climate Action	
		properties.			
	3. Expand participation in energy	a. Partner with Energy Upgrade California to increase	Short	Green Building	848
	efficiency upgrade programs to 25%	participation by City residents.	511011	Green Dununig	040
	of all homes within the City by	b. Increase penetration of energy efficiency retrofit programs	Short	Green Building,	
	2020.	(Central Coast Energy Services) for low income housing		Water Department	
		within the City to 75% by 2020.		· ·	
		c. Provide access to and knowledge of tools to improve	Short	Green Building	
		energy efficiency of residential buildings through education,			
		media, neighborhood outreach, web portals, and special			
		events.			
		d. Support programs and subsidies for residential home	Long	Green Building	
		energy retrofits through the Green Building Program.			
			Short	Green Building	
		e. Create or expand energy efficiency programs to reach	Short	Green Building	
			Short	Green Building	
IME	RCIAL SECTOR	e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served.			
IME	1. Increase participation in the	e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served. a. Provide ongoing support for the implementation of the climate	Short	Green Building Green Business	3,750
лме	1. Increase participation in the Monterey Bay Area Green Business	e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served. a. Provide ongoing support for the implementation of the climate change mitigation section in the program.	Short	Green Business	3,750
//ME	1. Increase participation in the Monterey Bay Area Green Business Certification Program by 250	<ul> <li>e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served.</li> <li>a. Provide ongoing support for the implementation of the climate change mitigation section in the program.</li> <li>b. Incorporate the Green Business Program into a green</li> </ul>		Green Business Economic	3,750
лме	1. Increase participation in the Monterey Bay Area Green Business Certification Program by 250 additional businesses within the City	<ul> <li>e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served.</li> <li>a. Provide ongoing support for the implementation of the climate change mitigation section in the program.</li> <li>b. Incorporate the Green Business Program into a green downtown campaign (i.e. Green Wave) to encourage</li> </ul>	Short	Green Business Economic Development and	3,750
MME	1. Increase participation in the Monterey Bay Area Green Business Certification Program by 250	<ul> <li>e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served.</li> <li>a. Provide ongoing support for the implementation of the climate change mitigation section in the program.</li> <li>b. Incorporate the Green Business Program into a green downtown campaign (i.e. Green Wave) to encourage participation of businesses and property owners in efficiency</li> </ul>	Short	Green Business Economic Development and Redevelopment	3,750
	1. Increase participation in the Monterey Bay Area Green Business Certification Program by 250 additional businesses within the City	<ul> <li>e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served.</li> <li>a. Provide ongoing support for the implementation of the climate change mitigation section in the program.</li> <li>b. Incorporate the Green Business Program into a green downtown campaign (i.e. Green Wave) to encourage participation of businesses and property owners in efficiency programs.</li> </ul>	Short Medium	Green Business Economic Development and Redevelopment Agency	3,750
	1. Increase participation in the Monterey Bay Area Green Business Certification Program by 250 additional businesses within the City	<ul> <li>e. Create or expand energy efficiency programs to reach income brackets of the residential community not already served.</li> <li>a. Provide ongoing support for the implementation of the climate change mitigation section in the program.</li> <li>b. Incorporate the Green Business Program into a green downtown campaign (i.e. Green Wave) to encourage participation of businesses and property owners in efficiency</li> </ul>	Short	Green Business Economic Development and Redevelopment	3,750

2. Increase market penetration of	ő	Long	Green Building	1,200
the Green Building and LEED Programs to 10% of the commercia	commercial program applicants. al b. Initiate commercial interiors and tenant improvement into	Medium	Green Building	
and industrial space by 2020.	Green Building Program.			
	c. Compile and make available technical guidance and building design tools for energy efficient retail/workspace.	Medium	Green Building	
_	d. Continue to provide forums for local professionals in green building and retrofit programs.	Medium	Green Building	
-	e. Integrate Solar Finance District development and	Medium	Green Building,	
	implementation with Green Building Program.		Climate Action	
	f. Continue to revise Green Building Program to incorporate new technologies and best management practices.	Long	Green Building	
3. Increase the amount of energy	a. Increase awareness and coordinate use of incentives for	Short	Green Business,	3,596
efficient commercial space within the City to 30% by 2020.			Green Building	
	b. Coordinate communication and quantification among	Medium	Green Building	
	existing audit/retrofit programs to move toward a turn-key			
	energy efficiency service including technical assistance and incentives.			
-	c. Establish a green downtown campaign (i.e. Green Wave) to	Medium	Green Business,	
	encourage wide scale participation of businesses and	meanum	Green Building	
	property owners in efficiency programs.		0	
	d. Establish an Energy Award for businesses that voluntarily	Medium	Green Business,	
	reduce energy use (i.e. RightLights and Green Business Programs) by 30%.		Green Building	
	e. Establish specific guidance for comprehensive energy audits and upgrades for commercial buildings.	Short	Green Building	
-	f. Explore specific funding mechanisms to support commercial building energy retrofit programs.	Short	Green Building	
		-	C D I	
-	g. Investigate feasibility of establishing central cogeneration	Long	Green Business,	
duce GHG emissions by reduce the second s	facilities in high density commercial and industrial areas. <b>ORTATION AND LAND USE PLANNING</b> cing vehicle miles traveled, decreasing single occup on options.	ancy vehicle t	Green Building	
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	<i>m.</i> Evaluate how electric vehicles could become a useful component of the City fleet.	Medium	Fleet & Facilities Operations	
2. Establish a Sustainable Transportation and Land Use Team among the Public Works, Planning,	a. Develop annual Team objectives and actions for Commission and City Council as defined in approved plans and report on past year's results.	Short	Planning	Integrated in other objectives
and Economic Development and Redevelopment Departments.	b. Report recommendations of the Sustainable Transportation and Land Use Team to the TPWC and Planning Commission for review, based on commission bylaws, prior to presentation to Council.	Short	Planning	
-	c. Update Transportation Impact Fee project plan to include implementation of alternative transportation infrastructure projects that support infill projects outlined in the 2030 General Plan.	Medium	Planning, Public Works	
	d. Investigate additional opportunities for the Redevelopment Agency to participate in the implementation of the Climate Action Plan.	Short	Planning, RDA	
	e. Establish a standard review process to evaluate how City Capital Improvement Projects affect the implementation of the CAP.	Medium	Planning, Public Works, RDA	
_	f. Provide leadership in the planning and implementation of the County rail corridor through the RTC.	Short	Planning	-
	g. Quantify results of alternative transportation projects (trip reduction and mode split) when possible and use these data in vehicle trip projections to support planning and the implementation of infrastructure projects.	Short	Transportation, Planning	
_	h. Evaluate local sales leakage and work with Redevelopment Agency to provide necessary services within county to reduce "over the hill" shopping.	Medium	Planning, Public Works, RDA	
	i. Evaluate per capita GHG emissions rather than project- scale GHG emissions to ensure compliance with General Plan and Climate Action Plan objectives.	Medium	Planning	
	j. Encourage development of affordable housing, retail services, and employment in areas of Santa Cruz best served by current or expanded alternative transportation options.	Medium	Planning, RDA	
	k. Continue to develop alternative transportation options to encourage a "Park Once" campaign.	Short	Planning, Green Business, Transportation	
	I. Continue to work with county and regional transportation leaders to explore options for additional funding sources on regional level to support multi-modal transportation infrastructure.	Medium	Planning, Public Works, RDA	
	m. Continue to implement intelligent transportation systems, round abouts, signal timing/synchronization, intersection widening and other efficiency methods that decrease idling time and congestion.	Short	Public Works	
3. Support implementation of the General Plan infill policies.	a. Require new development along commercial corridors to be at least two stories in height.	Short	Planning	Reductions w be quantified
	b. Encourage zoning that would allow for the development of housing above single-story commercial buildings along corridors.	Medium	Planning	Sustainable Community Strategy.
	c. Investigate modifying parking control strategies beyond what's allowed in current parking ordinance for residential housing, businesses and major destination centers. Review parking fee structure for downtown and throughout the City.	Short	Planning	
_	<i>d. Investigate an "in-lieu-fee" option for meeting some parking requirements to support infill and alternative parking options.</i>	Short	Planning, Public Works	
A Astin Lungeticingto in the second	e. Re-evaluate current accessory dwelling unit (ADU) standards to encourage additional ADU development.	Medium	Planning	Deductions
4. Actively participate in the county and regional transportation planning working groups.	a. Advocate that METRO consider new cross-town public transit routes as defined in the MTS. b. Support sustainable transportation options within City-	Medium Medium	Planning, Public Works Planning, Public	Reductions w be quantified Sustainable
_	defined higher density development areas and employment centers.         c. Advocate for transit that supports sustainable growth within the	Short	Works Planning	Community Strategy.
_	<i>county.</i> <i>d. Work with AMBAG to create a Sustainable Community</i>	Short	Planning	

FINAL DRAFT ·	- City of Santa	Cruz Climate	Action Plan -	- Table of Actions

MMUNITY (programs, services, opp 1. Reduce within-town car trips by	a. Work with regional agencies to establish baseline values for	Short	Energy Management	19,091
10% by 2020.	vehicle trip makeup (origin/destination) for residents, businesses, municipalities and create baseline transportation numbers for in- town trips.	Short	Office	19,091
	b. Continue to investigate and modify parking requirements and parking fees for new developments.	Short	Planning	
	c. Encourage use of ridesharing and car sharing as an alternative to single occupancy driving through business and commuter	Medium	Public Works, Planning, Green	
	incentives and parking disincentives.	<u></u>	Business	
	<i>d.</i> Support sustainable transportation education programs. <i>e.</i> Provide incentives and infrastructure that support alternatives	Short Short	Public Works Public Works,	
	to single occupancy vehicles.		Planning	
	f. Make Santa Cruz a Scooter friendly community.	Short	Public Works, Planning, Green Business	
	g. Work with community groups to encourage pedestrian and bike events.	Medium	Transportation	
	<i>h. Allow for events to receive permits to close off sections of Pacific if it reduces SOV driving and is financially sustainable.</i>	Medium	Public Works, Planning	
—	i. Investigate partnership with Zipcar-like programs to support use of energy efficient or electric vehicles for City residents.	Short	Public Works	
	j. Work with business and government partners to establish a "Car- Free by the Sea" ecotourism campaign.	Medium	Green Business, RDA	
	k. Allow car-free weekends or special events within the community (West Cliff, East Cliff, Pacific Ave.) if it reduces SOV driving and is financially sustainable.	Medium	Green Business, RDA	
	I. Continue to create more spaces for bikes and pedestrians on West Cliff Drive when feasible.	Long	Public Works, Planning	
2. Double bike ridership through the continued implementation of long term	a. Continue to provide periodic status reports on Bike Plan implementation to the TPWC and City Council.	Short	Transportation, Planning	9,546
actions identified within the Bike Plan that complete a safe network of bike corridors by 2020.	b. Complete a Quality Index assessment for Bicycle routes throughout the City and set targets to upgrade sections of key corridors to meet "Reasonable" or "Ideal" condition levels by 2020.	Short	Transportation, Planning	
	c. Continue to implement "Very High" and "High" priority projects defined in the Bike Plan to close gaps in the bicycle networks and connect major destinations and activity centers by 2020.	Short	Public Works	
	d. Work with County to design safe bike infrastructure across jurisdictional boundaries.	Medium	Transportation, Planning	
	e. Work with the RTC signage project to install bike route signs including directions and mileage indicators to common destinations.	Short	Transportation, RDA	
3. Reduce trips by car to and from elementary and secondary schools	a. Work with school districts to quantify vehicle trip makeup.	Medium	Climate Action, Transportation	2,864
by 30% by 2020.	b. Continue to work with school districts and solicit input from elementary, middle and high school parents to identify opportunities to decrease emissions from school commutes.	Short	Climate Action	
_	c. Support school busing, carpooling, biking and walking options as alternatives to individual parent pick-up and drop- off.	Short	Climate Action	
	d. Support development of more "safe routes to school" for students to walk and ride to school and home.	Short	Transportation	
	e. Support ridesharing programs for schools .	Medium	Climate Action, Transportation	
	<i>f.</i> Continue to explore additional funding for projects that enhance bike and walk to school opportunities.	Short	Transportation, Planning	
<ol> <li>Reduce regional workforce single occupancy vehicle commutes 10% by 2020.</li> </ol>	a. Work with the local partners and regional transportation planning groups to support the use of the rail corridor as a supplemental regional commute option.	Medium	Planning, Public Works, RDA	6,831
_	b. Support local and regional ride sharing programs.	Medium	Transportation	
	c. Support the Economic Development and Redevelopment Agency programs to retain and create jobs within SC to reduce number of trips "over the hill" commute by 10%.	Short	RDA	

	1	d. Encourage employers to develop tools and methods to decrease	Medium	Green Business	
		emissions from work commutes, including work at home, ride- sharing, vanpools and improving tranist service to local businesses.			
		e. Encourage businesses to provide bikes, electric bikes, electric vehicles, and scooters to employees for lunch time and work time errands.	Short	Green Business	
	5. Work with the METRO Transit District and others to increase local	a. Recommend cost-effective first steps for immediate action for increased ridership.	Short	Planning, Public Works	777
	<i>public transit ridership for multiple</i> <i>sectors of the community by more than</i>	b. Advocate for federal, state and local funding to maintain public transit and provide new service on the rail corridor.	Short	Planning, Public Works	
	5% by 2020.	c. Encourage METRO to identify specific actions that would encourage new riders to use the bus/trolley system.	Medium	Planning, Public Works	
		d. Encourage METRO to define high frequency bus routes that may be funded, created, expanded or modified to enable new sectors of the community to use the transit system.	Medium	Planning, Public Works	
		e. Link community districts and redevelopment areas with high frequency transit services.	Long	Planning, Public Works, RDA	
		f. Seek funding for a weekend bus/trolley pilot program as defined and prioritized in the scoping process.	Medium	Planning, Public Works, RDA	
		g. Participate in RTC processes to develop a rail corridor that provides an economically viable trail and rail service by 2020.	Short	Planning, Public Works	
		h. Coordinate the rail corridor future use options with high density and/or employment centered development as outlined in the 2030 General Plan.	Medium	Planning, Public Works, RDA	
		i. Work with local and regional transportation partners to develop, fund and implement transit options to create a convenient, integrated and accessible transit system for within town, cross county and Monterey Bay Area commutes.	Long	Planning, Public Works, RDA	
		j. Identify and implement transit options that link the region with the proposed CalTrain Station in Pajaro.	Long	Planning, Public Works, RDA	
		k. Continue to work with the University on long range transportation planning as outlined in the settlement agreement.	Medium	Planning, Public Works, RDA	
		I. Continue to monitor ongoing development of Personal Rapid Transit.	Short	Planning, Public Works	
	<ol> <li>Provide incentives for the switch of 20% vehicles to low-carbon/high- efficiency alternatives by 2020.</li> </ol>	a. Continue to work with the Monterey Bay Electrical Vehicle Alliance and others to assess needs and develop future municipal and private charging infrastructure.	Short	Transportation	1,412
		b. Evaluate preferential or size appropriate parking for electric vehicles, ultra mini cars, and scooters.	Short	Planning, Public Works	
		c. Encourage education on the use of low-carbon vehicles and fuels.	Medium	Transportation	
		d. Promote the City's package of incentives for those who own and use low-carbon/high-efficiency fuel vehicles.	Short	Transportation, Climate Action	
		AND SOLID WASTE MANAGEMENT			
Goal B	Reduce GHG emissions thro	ta and total water use within the Santa Cruz service ugh improved waste handling and increased recyce		ing, reuse and waste	e reduction.
MUNIC	<b>IPAL SECTOR</b> 1. Implement an updated City Water	a. Continue to implement Best Management Practices as	Short	Water Conservation	148
	Conservation Plan to maximize water use efficiency.	outlined in the MOU with the California Urban Water Conservation Council.			140
		b. Comply with new State laws which mandates new water conservation measures.	Short	Water Conservation	
		c. Establish an ultra low water use policy for City buildings and operations and provide mechanisms to achieve policy goals by 2020.	Medium	Water Conservation	
		d. Partner with Central Coast Energy Services to integrate City low-flow toilet and showerhead replacement services into their low-income housing energy efficiency audit and retrofit services.	Short	Water Conservation, Climate Action	
		e. Report to Council annually on the water system energy use from standard and renewable sources, energy associated with desalination, and estimated GHG emissions.	Short	Water Department, Energy Mgmt. Office	
		<i>f.</i> Maintain a rate schedule that is based on cost of service and designed to provide an economic incentive for conservation.	Medium	Water Department	
				_I	

2. Increase or establish use of rainwater catchment and reclaimed/grey water, where appropriate.	a. Investigate emerging technologies that reuse water within residential and commercial buildings and make that information available to the public.	Medium	Green Building, Water Conservation	37
	b. Integrate new California grey water building/plumbing codes into Green Building Program.	Short	Green Building	
	c. Encourage grey water use and rainwater catchment systems where their use could accomplish water conservation objectives.	Short	Green Building, Water Conservation	
	d. Consider landscape and park uses for future reclaimed water projects, where such use is appropriate.	Medium	Water Conservation, Parks and Rec	-
	e. Work with City Parks and Recreation and Water Departments on pilot composting toilet program for remote service areas.	Medium	Water Conservation, Parks and Rec	
	f. Continue to investigate reclaimed water opportunities.	Medium	Water Conservation, Parks and Rec	
3. Continue to implement programs to become a zero waste City by	a. Implement actions to achieve 75% waste diversion by 2020.	Short	Public Works	6,271
2030.	b. Expand construction and demolition waste reduction programs in partnership with the Green Building program.	Medium	Public Works, Green Building	
	c. Investigate options for processing food waste to generate renewable energy and/or useful products.	Medium	Public Works	
	d. Expand City policies to eliminate waste at its source.	Short	Public Works	
	e. Continue to review and revise City solid waste programs to maintain incentives, outreach programs and other activities designed to increase waste diversion.	Short	Public Works	
4. Establish programs and services	a. Establish a Zero Waste Plan for City buildings and	Medium	Public Works	Integrated in
to support resource conservation and waste reduction as a daily action for all City staff.	operations. b. Conduct Green Business waste audits of municipal buildings.	Short	Green Business, Energy Mgmt. Office	other objectives.
	c. Implement practices to reduce paper use in City operations.	Short	Finance	
	d. Provide user-friendly composting options in all kitchen areas.	Short	Public Works	
	e. Establish City policies to reduce consumption. i.e., repairing equipment, digital distribution of documents.	Medium	Public Works	
	f. Implement digital permitting and plan check procedures.	Short	Planning	-
5. Reduce emissions from waste collection and fugitive sources by	a. Continue to meet and exceed State surface emission requirements at the landfill.	Short	Public Works	922
10% by 2020.	b. Improve collection vehicle fuel efficiency and reduce trip VMT where possible. Purchase alternative fuel collection and sweeper vehicles as technology develops and regulations permit.	Long	Public Works, Fleet and Operations	
	c. Increase % of biofuel in diesel as equipment and regulations permit. Use locally-generated alternative fuels when available at a reasonable price.	Medium	Public Works, Fleet and Operations	-
RESIDENTIAL SECTOR				
1. Support implementation of Water Conservation Plan to maximize water use efficiency.	a. Continue to implement residential Best Management Practices as outlined in the MOU with the California Urban Water Conservation Council.	Short	Water Conservation	in M1
	b. Investigate and incentivize appropriate approaches to rainwater capture and grey water reuse.	Medium	Water Conservation	
	c. Pursue funding sources to provide rebates and reduce permit fees for cisterns.	Medium	Water Conservation	
	d. Support water efficient landscaping programs, classes and businesses.	Short	Water Conservation, Parks and Rec	•
	e. Promote Central Coast Energy Services programs which includes the City's low- flow toilet and showerhead replacement services.	Short	Water Conservation	
	f. Expand support of permaculture and climate-appropriate plant programs and classes that help residents reduce water use.	Short	Water Conservation, Climate Action	

2. Reduce the amount of recyclable		Medium	Public Works	in M
and compostable materials in the	50% (below 2010 levels) of methane producing materials			
residential waste stream.	from landfill.			
	b. Expand or develop programs and services that directly	Medium	Public Works	
	address results of the 2010 Waste Characterization Study to			
	move towards zero waste goal.			
IERCIAL SECTOR				
1. Support implementation of Water	a. Continue to implement commercial Best Management	Short	Water Conservation	in M
Conservation Plan to maximize water	Practices as outlined in the MOU with the California Urban			
use efficiency.	Water Conservation Council.			
	b. Continue to emphasize water conservation as part of the	Short	Green Business	
	Monterey Bay Area Green Business Program.			
	c. Per California Assembly Bill 1881, update the landscape	Short	Water Conservation,	
	water conservation ordinance for new developments and		Planning	
	remodels.		0	
-	<i>d.</i> Investigate and incentivize appropriate approaches to rainwater	Medium	Water Conservation	
	capture and grey water reuse.			
	e. Develop strategies to further reduce water use on large	Medium	Water Conservation	
	commercial landscapes such as assigning water budgets			
	and/or creating new fee structure.			
2. Reduce the amount of recyclable	a. Implement construction and demolition waste reduction	Medium	Water Conservation,	in M
and compostable materials in the	programs in partnership with the Green Building program to		Green Building	
commercial waste stream.	comply with 50% reduction mandate of Cal Green State		_	
	building code.			
	b. Require new and remodeled developments to design	Medium	Green Building	
	appropriate and convenient inside and outside service areas		_	
	that encourage recycling.			
	c. Continue to emphasize waste reduction as part of the	Short	Green Business	
	Monterey Bay Area Green Business Program.			
	d. Continue to support recycling and compost efforts at City	Short	Public Works, Climate	
	schools and UCSC.		Action	
	e. Continue to offer staff assistance in identifying waste	Short	Public Works	
	reduction options for businesses and industry within the City			
	limits.			
	f. Evaluate options and select method to achieve 50%	Medium	Public Works	
	commercial organic waste diversion by 2030.			
1	g. Implement State regulations mandating recycling at multi-	Short	Public Works	
	family apartments and commercial buildings.			
1	h. Encourage the use of local recycled and reused materials in	Medium	Green Business	
	partnership with local businesses.			
ter 7. SOLAR SANTA CRUZ	II I		- I	

Goal: Ensure a sustainable transition toward locally-generated renewable energy through programs, policies and investments.

NICIPAL SECTOR           1. Develop a Renewable Energy	a. Complete a phase II solar feasibility study of City	Short	Energy Mgmt. Office,	2,527
		511011	Climate Action	2,521
	buildings and facilities that will include both solar		Climate Action	
	photovoltaic and solar thermal options.			
departmental investment in	b. Create a solar expansion plan for the municipality.	Short	Energy Management	
renewable energy to reach a 33%			Office	
locally-generated renewable energy	c. Participate in cooperative purchasing programs and	Medium	Climate Action,	
portfolio by 2020.	public/private partnerships for energy efficiency and renewable		Finance	
	energy services and infrastructure.			
	d. Investigate feasibility of forming/joining a Community Choice	Short	Climate Action	
	Aggregation that allows all businesses and residents (including			
	renters) to use and support local investments in renewable energy.			
	03			
	e. Equip electric car and bike charging stations with solar and other	Medium	Transportation	
	renewable energy generation.		·	
2. Partner with UCSC and other	a. Find funding to support the development of the Coastal	Short	Climate Action	100
stakeholders to implement pilot	Energy Research Facility at the Municipal wharf and other			
projects that support development	locations.			
of emerging alternative energy	b. Work with the City Economic Development and	Medium	Climate Action, RDA	
technologies.	Redevelopment Agency to support investment in new energy			
	technology businesses.			
MMUNITY SECTOR				
1. Implement the Solar Santa Cruz	a. Create a Solar Finance District for City residents.	Medium	Climate Action	7,228
	b. Identify and establish incentives to support the switch to	Short	Climate Action	
residential solar systems to 1000 by				

2012 and 5000 by 2020. (Approximately 500 at present.)	c. Work with Climate Action Compact partners to create a local offset fund to support renewable energy/sustainable planning projects within the community.	Short	Climate Action	
	d. Establish new planning, development and building policies to support appropriate use of emerging wind, solar, biomass and micro hydro technologies.	Medium	Planning	
	e. Establish a Solar Hot Water campaign and financing mechanism to increase the number of solar hot water systems to 2000 in the City.	Short	Climate Action, Water Department	
Program to install renewable energy	a. Provide mechanisms (solar financing district, revolving funds, partnering with local banks) for new buildings to include solar as an integral part of the project.	Medium	Green Building, Climate Action	145
Program to increase the number of	a. Support future Solar Financing programs and incentives adoption by the business community.	Medium	Green Business, Climate Action	1,822
solar systems installed on businesses to 100 by 2012 and 500 by 2020.	<ul> <li>b. Encourage all new commercial and industrial development to include on-site renewable energy generation.</li> </ul>	Medium	Green Building	
	c. Establish new planning, development and building policies to support appropriate use of emerging wind, solar, biomass and micro hydro technologies on large business properties.	Medium	Planning	
	d. Establish a Solar Hot Water campaign and financing mechanism to increase the number of solar hot water systems in the City.	Short	Climate Action, Water Department	
	e. Partner with Chamber of Commerce and other business associations to create incentives for landlords to invest in renewable energy generation on commercial properties. (30% penetration)	Medium	Green Business, Climate Action	
apter 8. PUBLIC PARTNERSHIPS,				
al A. Identify and allocate fundin	g and other resources for the implementation of t	he Climate Ac	tion Plan.	
		advention of		<u>c</u>
al B: Support community implem	entation of the Climate Action Plan through public	education, ou		s.
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing	entation of the Climate Action Plan through public a. Identify ongoing funding to support program coordinator.	Short	Climate Action	<b>s.</b> 100
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration	entation of the Climate Action Plan through public a. Identify ongoing funding to support program coordinator. b. Coordinate implementation and completion of the Climate Action Plan by 2020.	Short Short	Climate Action	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate	entation of the Climate Action Plan through public a. Identify ongoing funding to support program coordinator. b. Coordinate implementation and completion of the Climate	Short	Climate Action	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration of actions with all City	entation of the Climate Action Plan through public a. Identify ongoing funding to support program coordinator. b. Coordinate implementation and completion of the Climate Action Plan by 2020. c. Conduct GHG Emissions Inventories at least every five	Short Short	Climate Action Climate Action Climate Action Energy Mgmt. Office,	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration of actions with all City	entation of the Climate Action Plan through public a. Identify ongoing funding to support program coordinator. b. Coordinate implementation and completion of the Climate Action Plan by 2020. c. Conduct GHG Emissions Inventories at least every five years. d. Conduct periodic review and revision of the Climate	Short Short Short	utreach, and program         Climate Action         Climate Action         Energy Mgmt. Office, Climate Action         Climate Action, Planning, Public	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration of actions with all City	entation of the Climate Action Plan through public         a. Identify ongoing funding to support program coordinator.         b. Coordinate implementation and completion of the Climate         Action Plan by 2020.         c. Conduct GHG Emissions Inventories at least every five         years.         d. Conduct periodic review and revision of the Climate         Action Plan.         e. Review Climate Adaptation Plan annually. Implement         proposed actions as funding becomes available.         f. Work with the County and regional leaders to initiate an Energy         Descent Plan for the Monterey Bay area.	Short Short Medium Short Medium	utreach, and program         Climate Action         Climate Action         Energy Mgmt. Office, Climate Action         Climate Action,         Planning, Public         Works         Climate Action,         Planning, Public         Works         Climate Action,         Planning, Public         Works	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration of actions with all City	entation of the Climate Action Plan through public         a. Identify ongoing funding to support program coordinator.         b. Coordinate implementation and completion of the Climate         Action Plan by 2020.         c. Conduct GHG Emissions Inventories at least every five         years.         d. Conduct periodic review and revision of the Climate         Action Plan.         e. Review Climate Adaptation Plan annually. Implement         proposed actions as funding becomes available.         f. Work with the County and regional leaders to initiate an Energy         Descent Plan for the Monterey Bay area.         g. Provide advocacy for effective State and Federal policies         and lead by example through reporting of local reduction         success.	Short Short Medium Short	utreach, and program         Climate Action         Climate Action         Energy Mgmt. Office, Climate Action         Climate Action,         Planning, Public Works         Climate Action,         Planning, Public Works         Climate Action,         Planning, Public Works         Vorks	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration of actions with all City	entation of the Climate Action Plan through public         a. Identify ongoing funding to support program coordinator.         b. Coordinate implementation and completion of the Climate         Action Plan by 2020.         c. Conduct GHG Emissions Inventories at least every five         years.         d. Conduct periodic review and revision of the Climate         Action Plan.         e. Review Climate Adaptation Plan annually. Implement         proposed actions as funding becomes available.         f. Work with the County and regional leaders to initiate an Energy         Descent Plan for the Monterey Bay area.         g. Provide advocacy for effective State and Federal policies         and lead by example through reporting of local reduction	Short Short Medium Short Medium	utreach, and program         Climate Action         Climate Action         Energy Mgmt. Office, Climate Action,         Climate Action,         Planning, Public         Works	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration of actions with all City	entation of the Climate Action Plan through public         a. Identify ongoing funding to support program coordinator.         b. Coordinate implementation and completion of the Climate         Action Plan by 2020.         c. Conduct GHG Emissions Inventories at least every five         years.         d. Conduct periodic review and revision of the Climate         Action Plan.         e. Review Climate Adaptation Plan annually. Implement         proposed actions as funding becomes available.         f. Work with the County and regional leaders to initiate an Energy         Descent Plan for the Monterey Bay area.         g. Provide advocacy for effective State and Federal policies         and lead by example through reporting of local reduction         success.         h. Establish a process for reporting a "GHG Emissions"         section within appropriate Council reports to evaluate and         analyze how actions support or are consistent with the City's	Short Short Short Medium Short Medium Medium	utreach, and program         Climate Action         Climate Action         Energy Mgmt. Office, Climate Action,         Planning, Public         Works         Climate Action,         Planning, Public         Works	
al B: Support community implem NICIPAL SECTOR 1. Establish a City Sustainability Team to coordinate ongoing implementation of the Climate Action Plan and ensure integration of actions with all City	entation of the Climate Action Plan through public         a. Identify ongoing funding to support program coordinator.         b. Coordinate implementation and completion of the Climate         Action Plan by 2020.         c. Conduct GHG Emissions Inventories at least every five         years.         d. Conduct periodic review and revision of the Climate         Action Plan.         e. Review Climate Adaptation Plan annually. Implement         proposed actions as funding becomes available.         f. Work with the County and regional leaders to initiate an Energy         Descent Plan for the Monterey Bay area.         g. Provide advocacy for effective State and Federal policies         and lead by example through reporting of local reduction         success.         h. Establish a process for reporting a "GHG Emissions"         section within appropriate Council reports to evaluate and         analyze how actions support or are consistent with the City's         GHG reduction goals.         i. Enhance City policies that support continued investment in	Short Short Short Medium Short Medium Medium	utreach, and program         Climate Action         Climate Action         Energy Mgmt. Office, Climate Action,         Planning, Public Works         Climate Action,         Planning, Public Works         Vorks         Climate Action,         Planning, Public         Works	

	environmental goals.	b. Develop and implement fundraising strategy.	Short	City Manager's Office, Climate Action	
		c. Create effective marketing materials to keep the public up to date on CAP implementation status and new opportunities to participate.	Short	City Manager's Office, Climate Action	
		d. Establish, maintain and promote an interactive web portal dedicated to the Climate Action Program.	Short	Climate Action, Planning, Public Works	
	orate energy efficiency and	a. Obtain Green Business Certification for City operations	Short	Green Business,	Integrated in
	rce conservation as daily tions for all City staff.	and facilities. b. Work with City staff to create department level GHG reduction plans and put mechanisms in place to report on the status of implementation.	Short	Climate Action Energy Management Office, Climate Action	other objectives
		c. Expand the Climate Action Teams Program for participation by City staff, Commissioners, and City Council members.	Short	Climate Action	
		d. Periodically report on City-wide GHG reduction goals attainment to City department staff.	Medium	Climate Action, Planning, Public Works	
		e. Create suggestion e-box for staff energy efficiency and resource conservation ideas.	Short	IT, Climate Action	
	pport the establishment of able purchasing procedures.	a. Create a policy to guide the City in making sustainable purchasing decisions.	Medium	Finance	To be Studied
		b. Use City purchasing policies to advocate for reduced product packaging and lower embodied carbon content.	Medium	Finance	
		c. Develop a process to prioritize the purchase of Energy Star rated appliances and computer equipment for all City operations.	Medium	Finance	
		d. Advocate for additional legislation to mandate extended producer responsibility. Continue to implement current Extended Producer Responsibility policies.	Medium	Finance	
	ntinue leadership in the mate Action Compact.	a. Partner with regional municipalities to conduct GHG emissions inventories.	Short	Energy Management Office, Climate Action	Significant but undetermined
		b. Partner with regional municipalities to develop and implement local Climate Action Plans.	Medium	Climate Action, Planning, Public Works	
		c. Partner with regional municipalities to establish funding to support GHG reduction efforts.	Medium	Climate Action, Planning, Public Works	
residents	<b>ECTOR</b> ide support for 20% of City s to pledge and take action to heir emissions 30% by 2020.	a. Expand the Climate Action Teams Program (CATP) to reach 10% of City residents (approximately 1200 families) and 50 businesses through partnerships with community groups, business districts, faith-based organizations, and schools.	Short	Climate Action	2,600
		b. Establish sustainable funding for the CATP.	Short	Climate Action	
		c. Increase web capacity for data collection and analysis, participant follow up, and online participant interaction that supports and builds a sense of community.	Medium	Climate Action	
		d. Explore opportunities for linking CATP with other local programs such as the Monterey Bay Area Green Business Program, AMBAG Home Energy Watch Program and RightLights Program.	Short	Climate Action	
		e. Investigate feasibility of linking CATP with subsidized home energy audit and retrofit program.	Medium	Climate Action	
		f. Expand and adapt CATP to specific sectors of the community through targeted promotional efforts, events, pilot programs, etc.	Medium	Climate Action	
		g. Work with regional municipal partners to find funding to initiate and implement CATP throughout the Monterey Bay Area.	Short	Climate Action	
	ort continued investment in enspace, parks and other fun	a. Support community tree plantings, open space enhancement, and gardens.	Short	Parks and Rec, Climate Action	Significant but undetermined
	things!	b. Increase the number of community gardens.	Short	Parks and Rec,	

	c. Increase and enhance urban forests.	Short	Parks and Rec,	1
	e, increase and enhance aroun joresis.	Short	Climate Action	
	d. Evaluate potential for a residential excess harvest program that could integrate with food assistance programs and farmers markets, modeled after the Portland Fruit Tree Project.	Medium	Parks and Rec, Climate Action	
	e. Continue to support local farmers' markets and work to provide sufficient locations and increased infrastructure.	Short	Public Works	
	f. Incentivize water-efficient greenscape and reduced use of asphalt in new development.	Medium	Planning, Parks and Rec, Public Works	
	g. Complete Arana Gulch multi-use trail and habitat restoration project.	Short	Planning, Parks and Rec, Public Works	
enhance sustainable options for	a. Support ongoing public efforts to increase climate change awareness, action, and advocacy.	Short	Climate Action	Significant but undetermined
	b. Support coordination and promotion of films, events, speakers, and forums related to climate change.	Short	Climate Action	
	c. Work with local non profit organizations to enhance the reach of their sustainability programs.	Short	Climate Action	
	d. Promote product repair and reuse businesses.	Medium	RDA	
	e. Support the Buy Local campaign as a GHG reduction tool.	Short	Climate Action	
4. Continue to coordinate and promote sustainable choices within the business community.	a. Increase the number of certified Monterey Bay Area Green Businesses.	Short	Green Business	Integrated in other objectives.
	b. Conduct pilot programs such as Green Wave Campaign to contribute to a local green economy.	Medium	Green Business, Climate Action, RDA	
	c. Establish an online Climate Action Program web portal and social media network to enhance collaboration and resource sharing amongst businesses and residents.	Medium	Green Business, Climate Action, RDA	
	d. Create awareness of Green Business/commercial sustainability efforts through signs in businesses and in business districts.	Medium	Green Business, Climate Action, RDA	
	e. Expand City and partner programs which enhance education to all owners, employees, and customers of businesses within the City regarding energy efficiency, resource conservation, and climate change programs and policies.	Short	Green Business, Climate Action, RDA	
	f. Work with the business community to find ways to incorporate the Climate Action Teams Program into company environmental programs as well as explore potential funding mechanisms.	Medium	Green Business, Climate Action, RDA	
	a. Continue to work with the Santa Cruz City Schools District as they complete their GHG Emissions Inventory and develop their Climate Action Plan.	Short	Climate Action	
	b. Use experience gained from pilot program with Gateway School to support and inform elementary, middle and high school GHG reduction and climate change education.	Short	Climate Action, Green Business	
	c. Promote Green Business certification of Santa Cruz City Schools.	Short	Climate Action, Green Business	
	d. Explore opportunities to engage high school students in reducing their personal GHG emissions as well as becoming leaders in community-wide GHG reductions.	Medium	Climate Action, Green Business	
	e. Continue to collaborate with UCSC to support implementation of their Climate Action Plan and develop avenues through which staff and students are empowered to reduce their GHG emissions as well as campus-wide emissions.	Short	Climate Action	
	f. Work with schools to develop opportunities for creating additional community gardens on their campuses.	Short	Climate Action, Parks and Rec	
	g. Explore the idea of planting trees on school campuses through the City Tree Program.	Medium	Climate Action, Parks and Rec	