

WORKSHOP AGENDA CAPITOLA COMMISSION ON THE ENVIRONMENT

Monday, October 27, 2014 – 6:00 p.m. City Council Chambers 420 Capitola Avenue, Capitola CA

1. CALL TO ORDER & ROLL CALL

COMMISSION MEMBERS: Bruce Arthur, Amie Forest, Maddie Marlatt, Dennis Norton, Kristin Sullivan, Elisabeth Russell - Chairperson

2. CLIMATE ACTION PLAN

- a. Draft Green House Gas Reduction Measures
- **3. ADJOURNMENT** Adjourn to the next regular meeting on Monday, November 17, 2014 at 6:00 p.m., in the City Hall Council Chambers, 420 Capitola Avenue, Capitola, California.

If you require special assistance in order to attend the meeting, including needs addressed by American with Disabilities Act, please notify the City at least 3 days prior to meeting by calling (831) 475-7300.

CITY OF CAPITOLA COMMISSION ON THE ENVIRONMENT Workshop Report

Meeting Date: October 27, 2014

Agenda Item: 2.a

Subject: Climate Action Plan – Draft Greenhouse Gas Reduction Measures

BACKGROUND: The City of Capitola is in the process of developing a Climate Action Plan (CAP) to meet State greenhouse gas (GHG) reduction goals pursuant to Assembly Bill 32 and Senate Bill 375. The CAP will establish goals, principles, and strategies to reduce the City's GHG emissions, conserve energy and natural resources, and to prepare the community for the expected effects of global warming.

Implementation of the CAP will advance sustainability policies in the adopted General Plan Update and will promote community values, including protecting our water and air resources; reducing the waste stream to landfills; improving energy efficiency; encouraging alternative transportation options and reducing automobile dependency; and creating a healthy and livable community. Development of a CAP requires the City to establish an inventory of existing and projected emissions and to develop strategies to achieve a 15% emission reduction by 2020.

<u>DISCUSSION:</u> City staff and their consultants have developed the attached list of potential GHG reduction measures. These draft measures are consistent with the policies in the General Plan Update. In addition, draft measures are modeled after and/or take into consideration the recommendations from the Capitola Green Jobs study, measures from the City of Capitola Draft Energy Action Plan, City of Santa Cruz CAP, model policies from the California Air Pollution Control Officers Association (CAPCOA) and California Institute for Local Government (ILG) Climate Action Network, and recommendations from ICLEI-Local Government for Sustainability.

Draft measures are based on the CAP measures presented to the General Plan Advisory Committee (GPAC) on January 16, 2013. In general, the GPAC recommendation was to focus on education and incentives, rather than regulatory measures, and to particularly avoid increasing costs to property owners when selling or renovating homes and businesses. However, in order to show quantifiable GHG reductions, some regulatory measures are needed.

The draft measures take previous feedback into consideration and have been further refined to reflect current policies, programs, and best practices. The CAP will include a mix of strategy types. Some strategies will encourage actions that can lead to a reduction in GHG emissions, but because they are voluntary, cannot show a quantified GHG emission reduction. Other strategies will need to be written with strong and clear language in order to show a quantified GHG emission reduction and help the City to achieve its GHG emission reduction targets.

After the draft measures have been reviewed by the Commission on the Environment, more precise GHG emissions reductions from each measure or group of measures will be modeled. These modeled reductions will be evaluated against the City's reduction targets for 2020 and 2035. Depending on whether draft measures enable Capitola to meet its reduction targets, the measures may undergo further revisions. Once a final list of reduction measures is in place, these measures and the revised modeling results will be incorporated into the Draft CAP.

Draft Measures and GHG Reduction and Cost Effectiveness Estimates

Draft reduction measures are presented with estimated "order-of-magnitude" GHG reductions, and estimated costs that could be incurred by the City and/or project applicants. Draft measures are placed into 10 categories: Land Use and Community Design; Economic Development; Transportation; Green Building and Energy Efficiency; Renewable Energy; Water and Wastewater; Solid Waste; Open Space and Food Systems; Purchasing; and Community Action. Within each of these general categories, interrelated measures that support one another have been grouped for the purpose of estimating potential reductions and cost-effectiveness.

GHG reduction estimates are measured in metric tons of CO2 equivalent or MTCO2e. Order-of-magnitude estimates are expressed in ranges that reflect powers of 10, with the maximum end of a range being ten times larger than the minimum. The purpose of the order-of-magnitude estimates is to offer perspective on the relative effectiveness of groups of related measures, without attempting to calculate specific reductions ahead of the more robust quantitative modeling that will occur once draft measures are finalized.

GHG reductions were estimated based upon the performance of similar measures in other municipalities, adjusted for Capitola's population and current level of GHG emissions. In some cases, since certain measures do not directly result in decreases to emissions, it is not possible to quantify associated GHG reductions. For example, it is not possible to estimate emissions reductions from draft measures in the Community Action category, since these measures primarily relate to fostering awareness and partnerships that support climate action goals.

Cost-effectiveness estimates for grouped measures were based on a qualitative evaluation of potential costs, relative to anticipated order-of-magnitude GHG reductions. In some cases, reduction measures may be cost-neutral or cost-beneficial in and of themselves, even before the potential for GHG reductions is considered. In these cases, cost-effectiveness is estimated to be high, even if GHG reductions are low or cannot reasonably be quantified. For example, although reductions from urban tree planting may be relatively low and difficult to estimate, the environmental and community benefits of well-selected urban trees often outweigh their costs. Thus, urban forestry programs are regarded as a highly cost-effective GHG reduction strategy. As specific quantitative modeling is undertaken, it will be possible to more firmly establish the cost-effectiveness for particular measures or groups of measures.

Commission on the Environment Review

Staff requests the Commission review the attached list of draft GHG reduction measures and offer feedback regarding:

- 1. Are there measures on the draft list that should be eliminated?
- 2. Are there additional measures which the Commission believes should be considered?
- 3. Are there measures which should be retained, but modified?

Next Steps

Once feedback is received from the Commission, staff and the consultant team will incorporate comments into a revised list of GHG Reduction Measures that will undergo quantitative modeling to determine if the measures collectively enable the City to meet its reduction targets. Staff will report back to the Commission once quantitative modeling has been completed.

STRATEGY - LAND USE AND COMMUNITY DESIGN

Land Use - General

GHG Reduction Estimate: 100 - 1,000 MTCO₂e

Cost Effectiveness Estimate: High

Number	Reduction Measure	Costs
LU-1	Encourage land use intensity with connectivity near retail, employment, and transit centers.	Low. GP Update included higher intensity near retail, employment, & transit. Complementary changes to Zoning Code will also be proposed. Applicant impacts not anticipated.
LU-2	Support well-designed infill development on vacant and underutilized sites that enhances Capitola's quality of life.	
LU-3	Encourage development of affordable housing, retail services and employment in areas of Capitola best served by current or expanded alternative transportation options.	

Land Use and Community Design - Mixed-Use

GHG Reduction Estimate: 100 - 1,000 MTCO₂e

Cost Effectiveness Estimate: High

Number	Reduction Measure	Costs
LU-4	Encourage appropriate mixed-use development in the Mixed-Use and Commercial zoning districts.	Low. Measures consistent with GP Update and can be incorporated into Zoning Code update. Applicant impacts not anticipated.
LU-5	Amend the Zoning Code to encourage new development or significant redevelopment in the Village Mixed-Use zoning district to be vertical mixed-use (i.e., residential or office above ground-floor retail).	

Land Use and Community Design - Shared Uses

GHG Reduction Estimate: 10 - 100 MTCO₂e

Cost Effectiveness Estimate: High

Amend the Zoning Code and other City regulations as needed to encourage and/or remove barriers to establishing "co-working" collaborative work spaces in Capitola.

Low. Amendments can be incorporated into Zoning Code update. Applicant impacts not anticipated.

Land Use and Community Design - Secondary Dwellings

GHG Reduction Estimate: 10 - 100 MTCO₂e

Cost Effectiveness Estimate: High

Number	Reduction Measure	Costs

Evaluate secondary dwelling unit standards in the Zoning Code and revise as appropriate to encourage additional secondary dwelling units development.

Low. Amendments can be incorporated into Zoning Code update. Applicant impacts not anticipated.

Land Use and Community Design - Pedestrian/Bike Access

GHG Reduction Estimate: 100 - 1,000 MTCO₂e

Cost Effectiveness Estimate: High

Number	Reduction Measure	Costs	
LU-8	Amend the Zoning Code to require new major developments to provide for safe and convenient pedestrian and bicycle connections between residential and commercial areas.	Low-Medium. Amendments can be incorporated into Zoning Code update. Proposed development standards may result in increased design and construction costs and may not meet developer objectives.	
LU-9	Revise development standards to promote a pedestrian-oriented environment in non-residential areas through reduced setbacks, principle entries that face a public street, and window and storefront requirements along the ground floor.		

Land Use and Community Design - Municipal

GHG Reduction Estimate: 10 - 100 MTCO₂e

Cost Effectiveness Estimate: High

Number	Reduction Measure	Costs
Number	Reduction Measure	Costs

LU-10 Allow and promote telecommuting among City employees.

Low-Medium. May require additional/expanded IT services and employee monitoring. No additional applicant costs anticipated.

STRATEGY - ECONOMIC DEVELOPMENT

Retail

GHG Reduction Estimate: 10 - 100 MTCO₂e
Cost Effectiveness Estimate: Moderate to High

Number	Reduction Measure	Costs		
ED-1	Evaluate local sales leakage and work with Santa Cruz County and other jurisdictions to provide necessary services within the county to reduce "over the hill" shopping.	Low. City staff will continue to		
ED-2	Support efforts to attract resident-serving commercial uses in the area south of Capitola Road.	participate in regional economic development collaborations. Prohibitions on office, professional,or medical uses in commercial areas would limit property owner options.		
ED-3	Identify locations in the City's commercial districts where ground-floor commercial uses are necessary to maintain a concentrated and functional business district, and amend the Zoning Code to require ground-floor commercial uses in these locations.			

	Economic Development - Jobs		
GHG Redu	ction Estimate: 10 - 100 MTCO ₂ e		
Cost Effect	iveness Estimate: Low to Moderate		
Number	Reduction Measure	Costs	
ED-4	Support regional efforts to recruit and retain businesses that provide high-wage jobs.		
ED-5	Support regional efforts to retain and create jobs within Santa Cruz County to reduce the number of "over the hill" commute trips.	Low - Medium. Staff will continue to participate in regional economic, development collaboratives; some additional education/outreach will be necessary. No additional applicant costs anticipated.	
ED-6	Actively participate in and be aware of the activities of regional workforce development organizations, such as the Comprehensive Economic Development Strategy Committee, Workforce Investment Board, and the Santa Cruz County Business Council, and publicize these efforts locally through the City's website and brochures.		
ED-7	Build on existing outreach and regular events to inform business owners and entrepreneurs of available workforce development resources.		
	Economic Development - Local/Small Business		
GHG Redu	ction Estimate: 10 - 100 MTCO ₂ e		
Cost Effect	iveness Estimate: Moderate to High		
Number	Reduction Measure	Costs	
ED-8	Support regional small business assistance programs, particularly for those with an environmental focus, and publicize the availability of this assistance via local partners, the City's website, and other economic development outlets. Coordinate and promote green building programs and pursue grant funding applications.	Low - Medium. City resources needed for additional education/outreach efforts. No additional applicant costs anticipated.	
ED-9	Pursue and support collaborations with local business initiatives/attractions to draw customers and visitors.		
ED-10	In collaboration with the Capitola-Soquel Chamber of Commerce and the Capitola Village Businees Improvement Area, conduct regular surveys of merchants to assess the needs and issues of locally-owned and independent businesses.		
	STRATEGY - TRANSPORTATION		
	General		
GHG Redu	ction Estimate: 1000 - 10,000 MTCO ₂ e		
Cost Effect	iveness Estimate: High		
	Reduction Measure	Costs	
Number			
Number TR-1	Continue to implement intelligent transportation systems, roundabouts, signal timing and synchronization, and other efficiency methods that decrease idling time and congestion.	Medium. Staff would continue to participate in regional transportation	
	Continue to implement intelligent transportation systems, roundabouts, signal timing and synchronization, and other efficiency methods that decrease idling time and congestion. Actively participate in County and regional transportation planning working groups to reduce regional trips and congestion.	Medium. Staff would continue to participate in regional transportation iniatives. Additional funding and staff time needed to develop improvement plans and install/construct	

Strategy (MTP/SCS) to reduce GHG emissions generated from transportation in the region.

improvements. No additional applicant

costs expected.

	Turney autotica Doubing	
GHG Reduc	Transportation - Parking stion Estimate: 100 - 1000 MTCO ₂ e	
	veness Estimate: High	
Number	Reduction Measure	Costs
TR-4	Consider implementing a "Park Once" campaign for Capitola Village which includes education, outreach, and signage, as appropriate.	Medium-High. Potentially significant
TR-5	Investigate and consider implementing additional parking strategies, including: developing a parking structure within walking distance of the Village, expansion of the in-lieu parking fee program, implementation of a parking management program, formation of a parking assessment district, and using "smart pricing" for metered parking spaces.	City costs to provide additional parking, conduct education/outreach. Dedicated vanpool, EV vehicle parking would be a new requirement, but is not expected to
TR-6	Require new major non-residential development to include designated or preferred parking for vanpools, carpools, and electric vehicles.	be a substanital impact to applicants.
	Transportation - Transit	
GHG Reduc	tion Estimate: 1000 - 10,000 MTCO ₂ e	
Cost Effecti	veness Estimate: Moderate	
Number	Reduction Measure	Costs
TR-7	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	
TR-8	Support regional efforts to develop the Santa Cruz County Passenger Rail Project.	Low. Staff would continue to
TR-9	Advocate for transit that supports sustainable growth within the county.	collaborate with regional partners to
TR-10	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.	improve transportation options. No additional applicant costs anticipated.
TR-11	Encourage the Metro Conter to become a multi-modal facility with amenities and integration with a possible future shuttle system in Capitola.	

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	KORCHOK	tation	Trip	Reduction
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GHG Reduction Estimate: 1000 - 10,000 MTCO₂e

Cost Effect	Cost Effectiveness Estimate: Moderate to High				
Number	Reduction Measure	Costs			
TR-12	Reduce within-town car trips by 10% by 2020 through the following measures:				
	Work with regional agencies to establish baseline values for vehicle trip makeup (origin/destination)				
TR-12.1	for residents, businesses, and municipalities, and create baseline transportation numbers for in-town				
	trips.				
TR-12.2	Continue to investigate and modify parking requirements and parking fees for new development.				
	Encourage the use of ridesharing and car sharing as an alternative to single occupancy driving through				
TR-12.3	business and commuter incentives, such as participation in the Rideshare Week Program administered				
TD 42.4	by SCCRTC & AMBAG, and parking disincentives.				
TR-12.4 TR-12.5	Support sustainable transportation education programs.				
TK-12.5	Work with community groups to encourage pedestrian and bike events. Investigate partnership with programs such as Zipcar to support use of energy efficient or electric				
TR-12.6	vehicles for City residents.	Medium-High. Measures would collectively require City			
TR-12.7	Allow car-free weekends or special events within the Village if it reduces single occupancy vehicle	education/outreach efforts; studies and			
	driving and is financially feasible.	analyses, funding for incentives and			
TR-13	Reduce regional workforce single occupancy vehicle commutes 10% by 2020 through the fillowing measures:	disincentives, and possibly re- prioritizing CIP projects. Measures			
TR-13.1	Work with local partners and regional transportation planning groups to support the use of the rail	could reduce parking requirements for			
	corridor as a supplemental regional commute option.	applicants, but could in-turn result in			
TR-13.2	Support local and regional ride sharing programs.	additional fees. Businesses participating			
TR-13.3	Encourage local employers to develop tools and methods to decrease emissions from work	in alternative transportation programs			
	commutes, including work at home, ride-sharing, and vanpools.	would incur costs to provide incentives			
	Develop a Transportation Demand Management Plan (TDM) for City and local employees. A TDM	and administer programs.			
	Program would offer incentices to encourage the use of alternative modes of transportation by City				
TR-14	and local employees (e.g. in the Village, Bay Ave, and 41st Ave areas). Free bus passes,				
	reimbursement for not using a parking space, emergency cab services, etc. will help reduce parking				
	demand and reduce greenhouse gas emissions through reduced commuter traffic.				
TR-15	Continue to work with school districts and solicit input from elementary, middle, and high school				
111 13	parents to identify opportunities to decrease emissions from school commutes:				
TR-15.1	Support school busing, carpooling, biking, and walking options as alternatives to individual parent pick-				
	up and drop-off. Support development of more "safe routes to school" for students to walk and ride to school and				
TR-15.2	home, and continue to explore additional funding for projects that enhance bike and walk to school				
11(13.2	opportunities.				

Transportation - Bicycling and Walking

GHG Reduction Estimate: 100 - 1,000 MTCO₂e

Cost Effectiveness Estimate: Moderate to High

Cost Effecti	veness Estimate: Moderate to High	
Number	Reduction Measure	Costs
TR-16	Increase bike ridership in Capitola Through the following measures:	
TR-16.1	Provide periodic status reports on 2011 Bicycle Transportation Plan implementation to the City Council.	
TR-16.2	Complete a Quality Index assessment for Bicycle routes througout the City and set targets to upgrade sections of key corridors to meet "Reasonable" or "Ideal" condition levels by 2020.	
TR-16.3	Continue to implement the proposed projects defined in the 2011 Bicycle Transportation Plan to close gaps in the bicycle networks and connect major destinations and activity centers by 2020.	
TR-16.4	Work with the County to design safe bike infrastructure across jurisdictional boundaries.	
TR-16.5	Install bike route signs including directions and mileage indicators to common destinations.	Medium-High. City resources will be
TR-16.6	Install high-quality bicycle-parking facilities in the Village in centralized, safe, and secure areas.	required for education/outreach, to complete studies and analyses and
TR-16.7	Require bicycle parking facilities and on-site showers in major non-residential development and redevelopment projects. Major development projects include buildings that would accommodate more than 50 employees, whether in a single business or multiple tenants; major redevelopment project include projects that change 50 percent or more of the square footage or wall space.	develop programs, to fund sidewalk and bicycle infrastructure improvements, purchase and install signs. Re- prioritizing CIP program may also be necessary. Applicant costs would
TR-16.8	Encourage businesses to provide bikes, electric bikes, and scooters for employees for lunch time and work time errands.	increase as a result of requirements for bike parking facilities, providing bikes
TR-16.9	Encourage and support non-profit or volunteer organizations in creating a bicycle-sharing program.	and scooters, and TIF payments.
TR-17	Evaluate opportunities for new residential subdivisions and major commercial redevelopment projects to include a pedestrian or bicycle through-connection in any new cul-de-sacs.	
TR-18	Promote the ability of all residents to safely walk and bicycle to public parks. Identify improvements needed to address any deficiencies and incorporate these improvements into the City's CIP.	
TR-19	Maintain an environment within the Village and Capitola Mall that prioritizes the safety and convenience of pedestrians and bicyclists.	
TR-20	Consider adopting a Transportation Impact Fee (TIF) Program to mitigate for transportation impacts resulting from development projects. Allocate portions of the TIF budget to bicycle and pedestrian facility projects.	

GHG Reduction Estimate: 100 - 1,000 MTCO₂e

Cost Effectiveness Estimate: Moderate to High

Cos	st Effectiv	veness Estimate: Moderate to High	
N	lumber	Reduction Measure	Costs
TR-2	21	Provide incentives, such as giving priority in plan review, processing, and field inspection services, for new and existing commercial and residential projects that provide parking spaces reserved for electric vehicles and have a charging connection.	Medium. City funding would be needed for incentives, administration, needs assessment, and to purchase/install charging stations. Applicants processing projects without EV infrastructure may experience processing delays.
TR-2	22	Continue to work with the Monterey Bay Electrical Vehicle Alliance and others to assess needs and develop future municipal and private charging infrastructure to increase public access to EV charging stations.	

STRATEGY - GREEN BUILDING AND ENERGY EFFICIENCY

General

GHG Reduction Estimate: 100 - 1,000 MTCO₂e
Cost Effectiveness Estimate: Moderate to High

Number	Reduction Measure	Costs
GB-1	Incorporate green building techniques into the City's commercial and residential design guidelines.	Medium. City resources needed for periodic code updates and to fund incentives. Applicants may incur additional upfront costs resulting from energy efficiency improvements, but will likely save on energy costs in long-term. Applicants processing other projects may be delayed due to priority projects being moved to "front of the line".
GB-2	Train all plan review and building inspection staff on green building materials, techniques, and practices.	
GB-3	Identify and remove regulatory or procedural barriers to implementing green building practices in the City by updating codes, guidelines, and zoning.	
GB-4	Periodically review, and as needed, update City development codes and regulations to promote innovative energy-efficient technologies.	
GB-5	Provide incentives, such as streamlined permitting and inspection processes or reduced permitting fees, for retail and hospitality establishments that utilize energy-efficient equipment.	

Green Building and Energy Efficiency - Green Building Ordinance

GHG Reduction Estimate: 1,000 - 10,000 MTCO₂e

Cost Effectiveness Estimate: High

Number	Reduction Measure	Costs
GB-6	Periodically review, and if needed, amend Capitola's Green Building Ordinance to ensure effectiveness of the regulations relative to Title 24 standards.	
GB-7	Revise the Green Building Ordinance as follows:	
GB-7.1	Provide an expedited entitlement process and/or waiver of select permit fees for exemplary projects that greatly exceed requirements and that are "LEED©-Ready.	
GB-7.2	Encourage passive solar design, in which window placement and building materials help to collect and maintain solar heat in the winter and reflect solar heat in the summer.	Medium. City resources needed to
GB-7.3	Require large homes over 3,000 square-feet provide greater efficiency than required of smaller homes to compensate for the increased energy requirements of larger homes.	complete code updates and for monitoring/enforcement. City funds needed for incentives. Applicants would incur costs resulting from new requirements for energy efficiency, but
GB-7.4	Require new development and major renovations to use energy-efficient appliances that meet ENERGY STAR standards and energy-efficient lighting techniques that exceed Title 24 standards by 30%.	
GB-7.5	Require the installation of programmable thermostats in new buildings and as part of additions or renovations to existing buildings.	will realize energy savings over the long- term. Priority processing of green
GB-7.6	Require outdoor lighting fixtures in new development to be energy efficient. Require parking lot light fixtures and light fixtures on buildings to be on full cut-off fixtures, except emergency exit or safety lighting, and all permanently installed exterior lighting shall be controlled by either a photocell or an astronomical time switch. Prohibit continuous all night outdoor lighting in construction sites unless required for security reasons.	projects may delay applicants with othe projects.
GB-7.7	Provide incentives, such as rebates offered by the "Bright Lights" program, for multi-family housing buildings to retrofit inefficient lighting fixture with new, more efficient fixtures.	

	Green Building and Energy Efficiency - Energy Efficient Site Design			
GHG Reduc	GHG Reduction Estimate: 100 - 1,000 MTCO2e			
Cost Effecti	iveness Estimate: Moderate to High			
Number	Reduction Measure	Costs		
GB-8	Amend the Zoning Code to require new development and major renovations to incorporate measure that reduce energy use through solar orientation by taking advantage of shade, prevailing winds, landscaping, and sunscreens.	Medium. City resources needed to		
GB-9	Incorporate requirements for cool roofs, cool pavements, and strategically placed shade trees into Zoning Code and other appropriate City regulations.	amend ordinances. Applicants would incur additional costs to design and construct improvements.		
GB-10	Amend the Tree Protection Ordinance to allow passive solar design in new and existing developmen	•		

Green Building and Energy Efficiency - Outreach

GHG Reduction Estimate: 100 - 1,000 MTCO2e Cost Effectiveness Estimate: Moderate to High

Number	Reduction Measure	Costs
GB-11	Join regional partners in advocating for the continuation and expansion of utility provider incentive programs to improve energy efficiency, and advocating for sustainable practices by the providers themselves.	
GB-12	Encourage PG&E to develop and distribute energy use report cards for their residential customers in Capitola.	Low. Some City resources needed for coordination/promotion efforts. No
GB-13	Partner with PG&E to promote individualized energy management planning and related services for large energy users.	affect on applicants anticipated.
GB-14	Promote LEED-certified or similar projects by providing maps and/or coordinated tours of such facilities.	

Green Building and Energy Efficiency - Energy Efficiency Audits and Upgrades

GHG Reduction Estimate: 100 - 1,000 MTCO₂e

Cost Effecti	Cost Effectiveness Estimate: Moderate to High			
Number	Reduction Measure	Costs		
GB-15	Partner with knowledgeable organizations to publicize the availability of grants, loans, and tax incentive options for various resource efficiency upgrades via the State or federal government, utility providers, and other sources. Work with Santa Cruz County and other regional government entities to ensure that Capitola is included in energy efficiency programs.			
GB-16	Consider participation in the CaliforniaFIRST program and other Property Assessed Clean Energy (PACE) financing programs, which provides innovative, low-interest financing for energy efficiency projects for commercial, industrial, and multi-family properties.	Medium. City resources needed for		
GB-17	Partner with Energy Upgrade California to increase participation by Capitola residents in energy efficiency home improvement projects.	coordination, education, and outreach efforts. No impact to applicants		
GB-18	Partner with Central Coast Energy Services to increase participation in energy efficiency retrofits for low-income housing in Capitola.	provided programs are voluntary.		
GB-19	Provide outreach support for existing programs that provide energy efficiency retro-commissioning, audits, and retrofits for housing, including rental housing, businesses, non-profit organizations, and government, special district, and school district customers (e.g. PG&E, AMBAG, Central Coast Energy Services, Ecology Action, Energy Upgrade California).			
GB-20	Partner with realtors to promote energy efficiency audits and upgrades when residential and commercial buildings are sold.			

Cost Effectiveness Estimate: 10 - 100 MTCO2e Continue to make energy improvements to City facilities to maintain Capitola's certification from the Monterey Bay Green Business Program. GB-21 Monterey Bay Green Business Program. Conduct periodic energy audits of City facilities and include any feasible energy cost reduction measures in the annual budget. STRATEGY - RENEWABLE ENERGY On-Site Energy Generation GHG Reduction Estimate: 100 - 1,000 MTCO2e Cost Effectiveness Estimate: Moderate to High Number Reduction Measure Costs Amend the Zoning Code to remove regulatory barriers to the establishment of on-site energy generation. Annend the Zoning Code to remove regulatory barriers to the establishment of on-site energy generation. Annend the Zoning Code to remove regulatory barriers to the establishment of on-site energy generation. Annend the Zoning Code to remove regulatory barriers to the establishment of on-site energy generation. Annend the Green Building Ordinance to require all new buildings be constructed to allow for easy, cost-effective installation of future solar energy systems, where feasible. "Solar ready" feature propers olar orientation (it. south-facing roof area sloped at 20% to 55" form the horizontal); clear access on the south sloped roof (i.e. no chimneys, heating vents, or plumbing vents); systems; and space provided for a solar hot water storage tank. Require residential projects of six units or more to participate in the California Energy Commission's New Solar Homes Partnership, which provides rebates to developers of six units or more who offer solar power in Sol of new uniter storage tank. Reset and solar power in Solar or Solar hot water storage tank. Resolar Power in Solar or Solar hot water storage tank. Resolar Power in Solar or Solar hot water storage tank. Resolar Homes Partnership, which provides rebates to developers of six units or more who offer solar power in Solar or Solar hot water solar power in Solar hot water solar power in Solar hot water solar power in					
Cost Effectiveness Estimate: Moderate Number Reduction Measure Costs Continue to make energy improvements to City facilities to maintain Capitola's certification from the Montercy Bay Green Business Program. GB-22 Ensure that all City development projects serve as models of energy-efficient building design. Conduct periodic energy audits of City facilities and include any feasible energy cost reduction measures in the annual budget. STRATEGY - RENEWABLE ENERGY On-Site Energy Generation GHG Reduction Estimate: 100 - 1,000 MTCO2e Cost Effectiveness Estimate: Moderate to High Number Reduction Measure Costs Amend the Zoning Code to require new or major rehabilitations of commercial, office, or industrial development incorporate solar or other renewable energy generation to provide 15% or more of the project's energy needs. Amend the Green Building Ordinance to require all new buildings be constructed to allow for easy, cost-effective installation of future solar energy systems, where feasible. *Solar ready* features should include: proper solar orientation (i.e. south-facing roof area sloped at 20% to 55* from the horizontal); clear access on the south sloped roof (i.e. no chimneys, healing wents, or plumbing vents; electrical conduit installed for solar electric system wiring; plumbing installed for solar hot water storage tank. Require residential projects of six units or more to participate in the California Energy Commission's New Solar Homes Partnership, which provides rehates to developers of six units or more who adjusted to requirements equal to or greater than those of the California Energy Commission's New Solar Homes Partnership, which provides rehates to developers of six units or more who adjusted ordinances and to review energ analyses prepared for each project subject to requirements equal to or greater than those of the California Energy Commission's New Solar Homes Partnership. RE-5 Amend the Zoning Code to promote solar and wind access in new and existin	Green Building and Energy Efficiency - Municipal				
Costs Continue to make energy improvements to City facilities to maintain Capitola's certification from the Monterey Bay Green Business Program. Ensure that all City development projects serve as models of energy-efficient building design. Conduct periodic energy audits of City facilities and include any feasible energy cost reduction measures in the annual budget. STRATEGY - RENEWABLE ENERGY On-Site Energy Generation GHG Reduction Estimate: 100 - 1,000 MTCO 2e Cost Effectiveness Estimate: Moderate to High Number Reduction Measure Costs Amend the Zoning Code to remove regulatory barriers to the establishment of on-site energy generation. Amend the Zoning Code to require new or major rehabilitations of commercial, office, or industrial development incorporate solar or other renewable energy generation to provide 15% or more of the project's energy needs. Amend the Green Building Ordinance to require all new buildings be constructed to allow for easy, cost-effective installation of future solar energy systems, where feasible. "Solar ready" features should include: proper solar orientation (i.e. south-facing roof area sloped at 20% to 55' from the horizontal); clear access on the south sloped roof (i.e. no chimneys, heating wents, or plumbing vents). Project and the Green Building Ordinance to require all new buildings be constructed to allow for easy, cost-effective installation of future solar energy systems, where feasible. "Solar ready" features should include: proper solar orientation (i.e. south-facing roof area sloped at 20% to 55' from the horizontal); clear access on the south sloped roof (i.e. no chimneys, heating wents, or plumbing vents). Project and the solar power in 50% of new units and is a component of the California Energy Commission's New Solar Homes Partnership, which provides rebates to developers of six units or more who offer solar power requirements equal to or greater than those of the California Energy Commission's New Solar Homes Partnership. RE-5 Amend the Zoning Code to pro					
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Amend the Tree Protection Ordinance to allow removal of non-heritage trees necessary to provide	RE-4	New Solar Homes Partnership, which provides rebates to developers of six units or more who offer solar power in 50% of new units and is a component of the California Solar Initiative, or a similar program with solar power requirements equal to or greater than those of the California Energy			
KE-D	RE-5	Amend the Zoning Code to promote solar and wind access in new and existing development.			
	RE-6				

Renewable Energy	 Renewable Energy 	Development and Use

GHG Reduction Estimate: 10 - 100 MTCO₂e

Cost Effectiveness Estimate: Moderate

Number	Reduction Measure	Costs
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RE-7	In partnership with PG&E and local alternative energy companies, develop an Alternative Energy Development Plan that includes citywide measurable goals and identifies the allowable and appropriate alternative energy facility types within the City, such as solar photovoltaics (PV) on urban residential and commercial roofs and low-scale wind power facilities. As part of this plan:	
RE-7.1	Propose phasing and timing of alternative energy facility and infrastructure development.	М
	Conduct a review of City policies and ordinances and establish a streamlined development review	CC
RE-7.2	nrocess for new alternative energy projects that ensures poise, aesthetic, and other potential land use	al
	compatibility conflicts are avoided.	ne
RE-7.3	Develop a renewable energy expansion plan for the City.	in
RE-7.4	Consider reducing permit fees or other incentives for alternative energy development.	111
	Continue to support the County's investigation into implementation of Community Choice	
RE-8	Aggregation, a program which the local government purchases power from selected local, renewable	
	sources, and the local utility provider handles transmission and billing.	
RE-9	Provide incentives for electric car charging stations which use solar and other renewable energy generation.	

Medium. City resources, including consultant support, needed to complete alternative energy plan. Funding needed for incentives. No applicant impact anticipated.

Renewable Energy - Municipal

GHG Reduction Estimate: < 10 MTCO₂e Cost Effectiveness Estimate: Moderate

Number	Reduction Measure	Costs
RE-10	Complete a renewable energy feasibility study of City buildings and facilities.	Medium-High. City resources needed to complete study. Funding needed for consultant support. Study could produce additional action items. Requirements for solar systems on City facilities would require funding. No applicant impacts anticipated.
RE-11	Incorporate the use of solar panels and solar hot water heaters in future City facilities.	

STRATEGY - WATER AND WASTEWATER

Water Conservation - General

GHG Reduction Estimate: 100 - 1,000 MTCO₂e
Cost Effectiveness Estimate: Moderate to High

Number	Reduction Measure	Costs
WW-1	Amend the Green Building Ordinance to require all water use and efficiency measures identified as voluntary in the California Green Building Standards Code for new development	Medium. City resources needed for education/outreach and to amend ordinances and coordinate with water districts. Incentives will require funding. New requirements and programs will increase applicant costs.
WW-2	Amend the Green Building Ordinance to promote water conservation through standards for watering timing, water-efficient irrigation equipment, water-efficient fixtures, and offsetting demand so that there is no net increase in imported water use. Include clear parameters for integrating water conservations infrastructure and technologies, including low-flush toilets and low-flow showerheads. As appropriate, partner with local water conservation companies on the development and implementation of this measure.	
WW-3	Develop a water efficiency retrofit ordinance to require water efficiency upgrades as a condition of issuing permits for renovations or additions. Work with local water purveyors to achieve consistent standards and review and approval procedures for implementation.	
WW-4	Continue to require water efficiency retrofits at point of sale for residential, commercial, and industrial properties.	
WW-5	Review and update the City's Water-Efficient Landscaping Ordinance with improved conservation programs and incentives for non-residential customers that are consistent with the Tier 1 water conservation standards of Title 24.	
WW-6	Implement incentives for the use of drought-tolerant landscaping and recycled water for landscape irrigation.	
WW-7	Collaborate with the Soquel Creek Water District and Santa Cruz Water Department to enact conservation programs for commercial, industrial, and institutional (CII) accounts.	
WW-8	Partner with Central Coast Energy Services to integrate low-flow toilet and showerhead replacement services into their low-income housing retrofit services, and promote these services to homeowners.	

Water and Wastewater - Information and Outreach			
GHG Reduc	GHG Reduction Estimate: 10 - 100 MTCO₂e		
Cost Effecti	veness Estimate: Moderate		
Number	Reduction Measure	Costs	
WW-9	In collaboration with the Soquel Creek Water District and Santa Cruz Water Department, pro water audit programs that offer free water audits to residential and commercial customers.	Low. Some City resources needed for coordination, education, and outreach.	
WW-10	Conduct marketing and outreach to promote water conservation rebates provided by the Soc Creek Water District and Santa Cruz Water Department.	quel No applicant impacts anticipated.	

Water and Wastewater - Alternative Water Systems

GHG Reduction Estimate: 10 - 100 MTCO₂e

Cost Effectiveness Estimate: Low to Moderate

Cost Effecti	veness Estimate: Low to Moderate	
Number	Reduction Measure	Costs
WW-11	Encourage grey water use and rainwater catchment systems where their use could accomplish water conservation objectives through the following measures:	
WW-11.1	Investigate the feasibility of adding new California grey water building/plumbing codes into the Green Building Ordinance.	
WW-11.2	Adopt a residential rainwater collection policy and update the Zoning Code as needed to support permitting and regulation of residential rainwater systems.	Medium. City resources needed for research, policy preparation, and
WW-11.3	Investigate emerging technologies that reuse water within residential and commercial buildings and make that information available to the public via the City's website and/or brochures.	education/outreach. New requirements could add costs to applicants.
WW-11.4	Pursue funding sources to provide rebates and reduce permit fees for cisterns.	
WW-11.5	Provide outreach support for water-efficient landscaping programs, classes, and businesses.	

	Water and Wastewater - Municipal		
GHG Reduction Estimate: 10 - 100 MTCO₂e			
Cost Effective	veness Estimate: Low to Moderate		
Number	Reduction Measure	Costs	
WW-12	Establish an ultra-low water use policy for City buildings and operations, and provide mechanisms to	Medium. City resources needed to	
VV VV-12	achieve policy goals.	develop and implement policy. Costs	
	Work with water service providers to develop and implement a reclaimed (recycled) water	associated with upgraded	
WW-13	distribution system (purple pipe) for landscaping and other non-potable water uses for domestic,	systems/equipment. No applicant	
	commercial, and industrial consumers.	impacts anticipated.	

	STRATEGY - SOLID WASTE Solid Waste Diversion - General		
GHG Reduc	GHG Reduction Estimate: 100 - 1,000 MTCO₂e		
Cost Effecti	veness Estimate: Moderate to High		
Number	Reduction Measure	Costs	
SW-1	Work with Green Waste Recovery to reduce community per capita solid waste disposal by 75% by 2020	Medium. City resources needed for	
SW-2	Conduct a study to consider providing financial incentives to households and businesses to reduce the volume of solid waste sent to the landfill. Based on the results of this study, undertake such incentives, as appropriate.	coordination, to develop strategies and protocols, and potentially for long-term monitoring and enforcement. No	
SW-3	SW-3 Partner with PG&E to establish an end-of-life requirement for appliance disposal. Establish a protocol per US EPA's Responsible Appliance Disposal Program.	applicant impacts anticipated.	

	Solid Waste - Construction Waste	
GHG Reduc	tion Estimate: 100 - 1,000 MTCO ₂ e	
Cost Effect	veness Estimate: Moderate to High	
Number	Reduction Measure	Costs
SW-4	SW-4 Revise the Recycling Ordinance to require at least 50 percent diversion of non-hazardous construction waste from disposal, as required by the California Green Building Code.	Low-Medium. City resources needed to amend ordinance. New or more strict
SW-5	Amend the Green Building Ordinance to encourage building designs that minimize waste and consumption in construction projects.	standards could result in increased applicant costs.
	Solid Waste - Green and Food Waste	
GHG Reduc	tion Estimate: 100 - 1,000 MTCO ₂ e	
Cost Effect	veness Estimate: Moderate	
Number	Reduction Measure	Costs
SW-6	Continue the City's Food Waste Reduction Program and policies related to green waste diversion to keep food and green waste out of the landfill.	Low. No impacts anticipated from retaining existing program.
	Solid Waste - Recycling	
GHG Reduc	tion Estimate: 10 - 100 MTCO₂e	
Cost Effect	veness Estimate: Low to Moderate	
Number	Reduction Measure	Costs
SW-7	Retain Zoning Code requirements for all new and significant redevelopments/remodels of existing multi-family developments, including those with fewer than five units, to provide recycling areas for their residents.	Low-Medium. City resources needed to
SW-8	Work with Green Waste Recovery to improve recycling collection services in the Village and in commercial areas.	complete ordinance amendment. Measures could result in additional
5W 0		Costs to event applicants and increased
SW-9	Amend the Municipal Code to require recycling at all public events that require a City permit.	costs to event applicants and increased construction costs for parking lot development.

Encourage the use of recycled asphalt pavement (RAP) for commercial and community parking lots.

SW-10

Solid Waste - Outreach

GHG Reduction Estimate: 10 - 100 MTCO₂e Cost Effectiveness Estimate: Low to Moderate

Number	Reduction Measure	Costs
SW-11	Encourage the use of reusable, returnable, recyclable, and repairable goods through incentives,	
344-11	educational displays, and activities.	Low-Medium. City has several existing
CW 12	Encourage the reduction of waste and consumption from household and business activities in	programs in place. Expaneded
SW-12	Capitola through public outreach and education activities.	programs would require City resources.
CW 12	Support recycling and compost efforts at City schools by providing information and educational	No applicant impacts anticipated.
SW-13	materials.	

Solid Waste - Municipal

GHG Reduction Estimate: < 10 MTCO₂e

Cost Effectiveness Estimate: Moderate

Number	Reduction Measure	Costs
SW-14	Increase the City government waste diversion rate to 75% through the following measures:	-
SW-14.1	Expand reduction, recycling, and composting programs.	Low-Medium. City has several existing
SW-14.2	Practice Reuse.	programs in place. Additional resources
SW-14.3	Conduct waste audits of municipal buildings.	needed if programs expanded and for IT
SW-14.4	Promote the purchase of environmentally-friendly office products.	improvements. No applicant impacts
SW-14.5	Implement practices to reduce paper use in City operations.	anticipated.
SW-14.6	Implement digital permitting and plan check procedures.	

STRATEGY - OPEN SPACE AND FOOD SYSTEMS

Urban Agriculture

GHG Reduction Estimate: 10 - 100 MTCO₂e

Cost Effecti	Cost Effectiveness Estimate: Low to Moderate		
Number	Reduction Measure	Costs	
OS-1	Increase the number of community gardens through the following measures:		
	Identify and inventory potential community garden and urban farm sites on parks, public easements,		
OS-1.1	PG&E easements, and rights-of-way, and develop a program to establish community gardens in appropriate locations.	Medium. City resources needed for education/outreach and to develop and implement programs. Requirements to set aside space for food production could affect applicant's designs.	
OS-1.2	Encourage significant new residential developments over 50 units to include space that can be used to grow food.		
OS-1.3	Establish a process through which a neighborhood can propose and adopt a site as a community garden.		
OS-1.4	Work with schools to develop opportunities for creating additional community gardens on their campuses.		
OS-2	As part of the Zoning Ordinance Update, identify and address barriers to urban farming and produce sales directly from farmers to consumers.		

	Open Space and Food Systems - Local Food
GHG Reduction Estimate:	10 - 100 MTCO₂e
Cost Effectiveness Estimate:	Low to Moderate

Number	Reduction Measure	Costs
OS-3	Promote food grown locally in Capitola through marketing, outreach, and by providing locally grown and prepared food at City events, helping to reduce the transportation needs for food distribution	
	while boosting the local economy.	Medium. City resources needed for
OS-4	Encourage neighborhood grocery stores, farmers markets, and food assistance programs to increase	coordination, education, and outreach.
U3-4	their use of locally-grown and -prepared goods.	No applicant impacts anticipated.
OS-5	Encourage institutions, such as schools, government agencies, and businesses to serve foods produced locally and in the region.	

Open Space and Food Systems - Trees and Open Space

GHG Reduction Estimate: 100 - 1,000 MTCO₂e

Cost Effectiveness Estimate: High

Number	Reduction Measure	Costs
OS-6	Support community tree plantings and open space enhancements.	Medium. City resources needed to develop plans, manage urban forest
OS-7	Increase and enhance urban forests.	projects, and to purchase, install, and maintain trees.

STRATEGY - PURCHASING

General

GHG Reduction Estimate: 10 - 100 MTCO₂e

Cost Effectiveness Estimate: Low to Moderate

COST Effective	veriess Estimate. Low to Moderate	
Number	Reduction Measure	Costs
P-1	Review City purchasing and procurement policies and amend them as needed to do the following, and	
	ensure adherence to these policies:	
P-1.1	Prioritize green business practices and local businesses.	Medium. City resources needed to
P-1.2	Require the use of locally-grown and –prepared foods at City events.	develop policy/ordinance and to
P-1.3	Promote the use of reusable, returnable, recyclable, and repairable goods.	coordinate with local food outlets.
P-1.4	Prioritize the purchase of ENERGY STAR-rated appliances and computer equipment as new purchases	
	become necessary.	

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General

GHG Reduction Estimate: Cannot be Determined Cost Effectiveness Estimate: Cannot be Determined

	Number	Reduction Measure	Costs
	CA-1	Participate fully in regional, State, and federal efforts to reduce GHG emissions and mitigate the	Low. Some City resources needed for
		impacts resulting from climate change.	coordination and participation.

Community Action - Green Business			
GHG Reduction Estimate: Cannot be Determined			
Cost Effecti	veness Estimate: Cannot be Determined		
Number	Reduction Measure	Costs	
CA-2	Promote the Monterey Bay Area Green Business Program and publicize businesses in Capitola which have been certified. Over time, consider whether it will be advantageous to develop a program specific to Capitola. Consider whether to support the program via contributions to technical assistance and marketing.	Medium. City resources needed for promotion, education, and outreach. Program development and technical	
CA-3	Establish a Green Village campaign to encourage participation of Village businesses and property owners in resource efficiency programs. Recognize these businesses on the City's website and other outlets.	assistance would require additional staff time and funding. No applicant impacts anticipated.	
CA-4	Support the Buy Local campaign as a GHG reduction tool.		

Community Action - Education and Outreach				
GHG Reduction Estimate: Cannot be Determined				
Cost Effectiveness Estimate: Cannot be Determined				
Number	Reduction Measure	Costs		
CA-5	Support ongoing public efforts to increase climate change awareness, action, and advocacy.			
CA-6	Support the coordination and promotion of films, events, speakers, and forums related to climate change.	Medium. City resources needed to conduct education/outreach, to develop		
CA-7	Expand City and partner programs that enhance education regarding energy efficiency, resource conservation, and climate change programs and policies.	local events, and to expand programs.		
CA-8	Explore opportunities to engage high school students in reducing their personal GHG emissions as well as becoming leaders in communitywide GHG reductions.	No applicant impacts anticipated.		

Community Action - Municipal Cannot be Determined GHG Reduction Estimate: Cost Effectiveness Estimate: Cannot be Determined Reduction Measure Number **Costs** CA-9 Coordinate implementation and completion of the Climate Action Plan by 2020. CA-10 Conduct periodic reviews and revisions of the Climate Action Plan. Conduct GHG emissions inventories at least every five years, in partnership with regional CA-11 municipalities, AMBAG, and PG&E. Advocate for effective State and federal policies and lead by example through reporting of local CA-12 Medium-High. City resources needed to reduction success. complete CAP updates, including Establish a process for reporting on GHG emissions within appropriate Council reports to evaluate and CA-13 consultant support and ongoing interanalyze how actions support or are consistent with the City's GHG reduction goals. city coordination. Maintaining City's Integrate City departments' operational implementation of the Climate Action Plan through certification may require additional, CA-14 coordination with staff of all relevant City programs and by establishing a Climate Action Coordinator unknown investments. No direct applicant impacts anticipated. position. Quantify and report on the effectiveness of the implementation of the Climate Action Plan and make CA-15 the information available to City Council, all City departments, partners, and the public.

Partner with regional municipalities to establish funding to support GHG reduction efforts.

Create suggestion e-box for City staff energy efficiency and resource conservation ideas.

CA-16

CA-17