APPENDIX 1: COMPILED PRIORITY ACTION ITEMS

High Priority Action Areas	GHG Reduction	Fossil Fuel Reduction	Adaptation Value*	Resource Implications	Lead: City of Eugene	Lead: Utilities	Lead: Business Sector	Lead: School Districts	Lead: Lane County	Lead: U of O	Lead: Lane CC	Lead: State of Oregon	Lead: Lane Transit Dist	Lead: Non-Profits	Lead:	Lead:	Partners: City of Eugene	Partners: Utilities	Partners: Business Sector	Partners: School Districts	Partners: Lane County	Partners: U of O	Partners: Lane CC	Partners: State of Oregon	Partners: Lane Transit Dist	Partners: Non-Profits	Partners:	Partners:	Partners:	Partners:	Timing: Ongoing	Timing: 1st Half, 2011	Timing: 2nd half, 2011	Timing: 1st half, 2012	Timing: 2nd half, 2012	Timing: Future	Comments
Buildings & Energy Use																																				
Objective 1: Reduce total green house gas emissions from existing buildings by 25% by 2030																														x						
1. Identify the most cost-effective opportunities for increasing efficiency in existing buildings.			x	$		x											x		x	x	x										x					
2. Expand assistance programs for retrofits that increase energy efficiency and reduce the carbon footprint of existing buildings.			x			x											x									x				x						
3. Establish a project fund to expand financing mechanisms for residential energy efficiency and/ or renewable energy system installations.			x		x																												x			
4. Target occupant behavior in order to reduce energy use in all types of buildings.						x											x									x				x						
5. Adopt an Energy Performance Score program for existing and new buildings to help buyers and renters to better understand the energy use of a building before they purchase or occupy it.																																x				
Objective 2: Reduce greenhouse gas emissions from new construction 50% by 2030																														x						
6. Lobby for adoption, and actively participate in development, of building code amendments that meet the Architecture 2030 standards for energy efficiency.				$	x													x						x						x						
7. Increase incentives for highly energy-efficient new buildings, aiming toward zero net energy and carbon neutral buildings.					x													x						x								x				
8. Develop incentives to encourage the use of passive heating and cooling systems and other strategies that reduce energy demand and better adapt buildings for a changing climate.					x													x							x							x				
9. Increase incentives to encourage smaller homes that use less energy to operate and fewer building materials to construct.					x													x							x								x			

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Buildings and Energy Use

High Priority Action Areas	GHG Reduction	Fossil Fuel Reduction	Adaptation Value*	Resource Implications	Lead: City of Eugene	Lead: Utilities	Lead: Business Sector	Lead: School Districts	Lead: Lane County	Lead: U of O	Lead: Lane CC	Lead: State of Oregon	Lead: Lane Transit Dist	Lead: Non-Profits	Partners: City of Eugene	Partners: Utilities	Partners: Business Sector	Partners: School Districts	Partners: Lane County	Partners: U of O	Partners: Lane CC	Partners: State of Oregon	Partners: Lane Transit Dist	Partners: Non-Profits	Timing: Ongoing	Timing: 1st Half, 2011	Timing: 2nd half, 2011	Timing: 1st half, 2012	Timing: 2nd half, 2012	Timing: Future	Comments
Objective 3: Expand use of Renewable and District Energy Systems																															
10. Increase the use of on-site renewable energy systems, such as solar hot water, photovoltaic, and ground-source heat pumps, by removing barriers to such systems.						x																			x						
a. Invest in EWEB's downtown network to facilitate net metering, a program which would allow connection to photovoltaic systems on downtown buildings.						x																									
b. Address the financial barriers to onsite renewable energy by expanding financing options such as long-term loans and property-assessed clean energy bonds.						x									x		x		x	x		x		x							
c. Dispel the myth that solar energy isn't viable in Western Oregon.				$		x									x		x		x	x	x	x		x		x					
2. Develop at least one community scale renewable energy pilot by 2015.																															
3. Develop at least one clean *district energy or shared energy* system pilot project by 2015.						x									x				x	x											
Objective 4: Increase the implementation of climate change preparation strategies for the built environment.																															
1. Lobby for state building code amendments to incorporate climate change preparation strategies into building design and construction.				$	x														x			x									
2. Provide education, assistance and incentives to reduce potable water use in new and existing buildings and landscaping.						x									x		x		x	x	x			x							

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	Food and Agriculture																																			
	Objective 1: Reduce consumption of carbon-intensive foods.																																			
	1. Begin a community campaign to educate the public about food choice as part of a climate-friendly lifestyle														x			x		x	x	x	x	x	x		x									
Food and Agriculture	**a.** Specifically encourage reduced consumption of carbon intensive foods including red meat and dairy.														x			x		x	x	x	x	x	x		x									
	2. Implement a "Buy climate-friendly first" food purchasing policy for public institutions - schools, hospitals, city and county governments.								x		x							x									x									
	Objective 2: Reduce the greenhouse gas emissions associated with agriculture and food waste.									x								x		x					x		x									
	3. Transition to agriculture methods that reduce greenhouse gas emissions.												x					x	x	x		x					x									
	4. Create a local organic waste digester that can capture methane from food wastes that are currently being dumped in landfills.	x	x			x													x	x		x			x										
	Objective 3: Preserve the productive capacity of the local and regional foodshed																																			
	5. Strengthen current farmland protections, particularly around high-value agriculture soils.									x			x					x		x							x									
	a. Strengthen City and County land use protections to prevent urban growth onto prime farmlands.				$	x				x																										
	2. Strengthen current farmland protections at state levels.												x																							
	a. Lobbying state agencies to strengthen protections.				$	x																			x		x									

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Food and Agriculture	**Objective 4: Prepare our food systems for the uncertainties created by climate change and rising energy prices**																																			
	7. Implement the following recommendations from Eugene's Food Security Scoping and Resource Plan			x																																
	a. Identify City of Eugene liaison for food system related programming.			x																																
	b. Create a comprehensive Community Food Security Assessment.			x	$																															
	8. Develop an updated regional emergency food distribution plan that accounts for climate and energy based disruptions.			x																																
	9. Increase the diversity and drought resistance of food crops grown in the upper Willamette Valley			x																																
	a. Support the efforts of food advocacy organizations, food growers, and Oregon State University.			x																																
	b. Specifically target vegetable protein crops such as beans and legumes			x																																
	10. Remove impediments to using greywater in agriculture. Work with state lawmakers to find solutions for greywater re-use.			x																																
	Objective 5: Increase availability of home-grown, and locally sourced food in Eugene.																																			
	11. Expand Community gardens on public, private, and community lands including City land, school campuses, and church properties.	L		x	$									x				x		x	x						x									
	a. Assess opportunities for community garden locations within the city.	L												x				x		x	x						x									
	12. Encourage planting of food-bearing trees and shrubs on public and private lands. Support urban tree food programs of such advocates as Tree by Tree, and the Eugene Tree Foundation.			x	$									x				x	x	x	x	x					x									
	13. Reevaluate limitations on numbers and types of animals permitted under Eugene's code to allow, where appropriate, an increase in the number and variety of food-producing animals that can be kept by urban residents.	L		x	$	x																					x									

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	Land Use and Transportation																																				
	Objective 1: Create 20-minute neighborhoods, where 90% of Eugene residents can safely walk or bicycle to meet most basic daily, non-work needs, and also have safe pedestrian and bicycle routes which connect to mass transit.																																				
Land Use and Transportation	**1.** Make the creation of 20-minute neighborhoods a core component of the EugenePlan and the Eugene Bicycle Pedestrian Master Plan.				**$**	x																														
	2. By 2013, complete and implement a 20-minute neighborhoods plan					x																														
	a. Identify funding for planning					x																														
	b. Identify key components for 20 minute neighborhoods (i.e. schools, parks, grocery store, retail services)					x																														
	c. Conduct a network gap analysis to determine needs (coordinated with Opportunity Sitting)					x					x																										
	Objective 2: Increase density around the urban core and along transit corridors.					x														x																
	1. Zone future commercial and high residential densities in and around the urban core, and along EMX and other high-capacity transit corridors to accommodate future urban growth.					x																														
	Objective 3: Consider the potential for climate refuges when conducting land use planning activities.																																				
	4. Closely monitor the community's population growth rate to gauge whether population projections are accurate.			x	**$**	x																x														

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Land Use and Transportation

High Priority Action Areas	GHG Reduction	Fossil Fuel Reduction	Adaptation Value*	Resource Implications	Lead: City of Eugene	Lead: Utilities	Lead: Business Sector	Lead: School Districts	Lead: Lane County	Lead: U of O	Lead: Lane CC	Lead: State of Oregon	Lead: Lane Transit Dist	Lead: Non-Profits	Lead:	Lead:	Lead:	Partners: City of Eugene	Partners: Utilities	Partners: Business Sector	Partners: School Districts	Partners: Lane County	Partners: U of O	Partners: Lane CC	Partners: State of Oregon	Partners: Lane Transit Dist	Partners: Non-Profits	Partners:	Partners:	Partners:	Timing: Ongoing	Timing: 1st Half, 2011	Timing: 2nd half, 2011	Timing: 1st half, 2012	Timing: 2nd half, 2012	Timing: Future	Comments
Objective 4: Continue to expand and improve Eugene's bicycle and pedestrian infrastructure and connectivity to increase the percentage of trips made by bike and on foot.																																				
5. Create a pedestrian and bicycle master plan that will:	**m**	**m**	**x**	**$$**	**x**																**x**	**x**				**x**	**x**										
a. Identify mobility gaps in the bicycle and pedestrian transportation system,					**x**																															
b. Recommend needed improvements to bicycle and pedestrian infrastructure					**x**																															
c. Create an implementation plan					**x**																															
d. Identify funding sources for implementation					**x**																															
6. Increase the mileage of bicycle boulevards and shared-use paths to accommodate bicyclists of varying abilities.																																				
7. Create a complete streets policy that requires all new transportation projects and rehabilitation projects to accommodate bicycles, pedestrians, and transit service.				**$**	**x**																															
Objective 5: Increase the supply of frequent, reliable, integrated and convenient public transit.																																				
8. Diversify funding sources for Lane Transit District (LTD) to increase the long-term reliability of mass transit service.												**x**						**x**				**x**														
9. Align City of Eugene Transportation System Plan and LTD long-range transit plan to integrate bus routes into the broader alternative transportation system.												**x**						**x**				**x**														
a. Create special setbacks along future Bus Rapid Transit (BRT) or other mass transit corridors to accommodate future right-of-way expansion.																																				
b. Work with LTD in developing the Long Range Transit Plan to determine the role of mass transit in accomplishing greenhouse gas emission reduction goals.												**x**						**x**																		
10. Invest in transit infrastructure that meets future access and mobility needs while consuming less fossil fuel.												**x**																								
a. Electrification of transportation system																																				
b. Create special setbacks along future BRT or mass transit corridors to accommodate future right-of-way expansion.																																				

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	Objective 6: Expand outreach, marketing and education regarding climate-friendly transportation alternatives.																																				
	11. Increase promotion of bicycling, walking, transit, car-pooling, telecommuting, high occupancy vehicles, and emergency ride home as attractive alternatives to driving in order to increase the mode share alternatives to the single occupancy vehicle.					x									x					x	x	x				x	x										
	12. Increase promotion of fuel-efficient driving techniques.																																				
	Objective 7: Ensure maximum efficiency in current and future freight systems.																																				
Land Use and Transportation	**13.** Plan for efficient freight transportation that minimizes greenhouse gas emissions and fossil fuel consumption, and																																				
	a. Connects multiple modes (train, truck, van, car, bicycle); Accommodates regional (upper Willamette Valley) commercial, industrial and agricultural freight needs; and facilitates efficient local deliveries.																																				
	Objective 8: Increase the use of low-carbon vehicles and fuels to improve overall fuel efficiency and reduce vulnerability to fluctuating oil prices.																																				
	14. Accelerate the transition to plug in hybrids and electric vehicles																																				
	a. Support the installation of a network of electric car charging stations.																																				
	b. Require installation of electric car charging stations in new																																				
	15. Conduct research to understand what role biofuels can play in decreasing Eugene's vulnerability to energy markets. Use outcomes of research to inform the next CEAP and appropriately promote local use and production of biofuels.																																				

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Consumption and Waste																																				
Objective 1: Reduce greenhouse gas emissions by reducing consumption of goods.																																				
1. Educate businesses and residents about the role of consumption in GHG emissions.																																				
a. Partner with organizations to encourage businesses and residents to: purchase durable, repairable and reusable goods; reduce the amount of materials that go to waste, including food; Reduce consumption of carbon-intensive consumer goods and services.																																				
2. Lobby at state level for better product labeling that includes information about greenhouse gas emissions associated with products.																																				
3. Provide information for the public on when to replace high energy-use appliances. Where/ If this information is already available, increase the distribution and accessibility.																																				
4. Participate actively in the process to develop local, state, and federal product stewardship legislation that drive design changes.																																				
Objective 2: Increase waste recovery rate by improving recycling and composting.																																				
5. Target expanded recycling outreach and services to commercial and multi-family residential buildings, including local businesses, apartment buildings, student and cooperative housing.																																				
6. Enact a local ordinance to increase waste recovery rates from commercial and multi-family buildings.																																				
7. Assist businesses in improving paper, metal and glass recycling with a goal of supporting 5% of businesses each year.																																				
8. Enact an ordinance that requires all construction and demolition waste materials to be sorted for reusable or recyclable materials. Partner with Lane County Solid Waste.																																				

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	Objective 3: Increase the diversion rate for organic wastes.																																			
	9. Conduct a pilot project at the River Avenue Waste Water Treatment Plant to determine the system ability for co-digestion of food waste and biosolids.																																			
	a. Conducting a feasibility study with partners by 2012																																			
	b. Removing permitting barriers wherever possible																																			
Consumption and Waste	**Objective 4: Conduct research to determine next steps**																																			
	10. Follow research being conducted by the EPA's West Coast Forum on Climate Change, Waste Prevention, Recovery and Disposal, to determine highest priority and most cost effective measures to address GHG production in the materials management sector.																																			
	11. Conduct study to determine the efficiency of maintaining a multiple-hauler garbage collection system as regards greenhouse gas emissions. Use the outcome of the research to inform the next Community Climate and Energy Action Plan.																																			
	Objective 5: Reduce GHGs in municipal operations by improving purchasing practice and reducing waste.																																			
	12. By 2012, improve the procurements policies of public agencies to require:																																			
	a. Reuse whenever possible																																			
	b. Avoid disposable and purchase durable goods whenever possible																																			
	c. Set targets on re-use																																			
	d. Measure whether this is occurring (identify measurements)																																			
	2. Reduce public agency purchase of GHG-intensive goods by 2014																																			
	a. Identify city-purchased goods with the highest associated GHG emissions by 2012																																			
	b. Create a plane to reduce the purchase of the 5 most GHG intensive goods (through substitutions, efficiencies, etc.)																																			
	c. Annually repot the quantity of these goods being purchased																																			
	3. Implement the steps in the City waste reduction plan to reduce waste at City buildings, events, and ongoing operations																																			

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Health and Social Services																																				
Objective 1: Prepare community systems for longer-term climate and energy challenges including fuel shortages, increased summer drought and increased storm intensity.																																				
1. Conduct a climate and energy vulnerability assessment that addresses the mid- term, and longer-term climate and energy vulnerabilities of the community – specifically regarding: energy, water, food, health, shelter, and sanitation.																																				
a. Build on existing emergency management efforts.																																				
b. Include EWEB, Springfield, Lane Co., UO, Red Cross, National Guard, and others																																				
c. Estimate costs of mitigating the identified vulnerabilities																																				
d. Estimate capacity needs and costs for implementing preparation and adaptation strategies.																																				
e. Continue to monitor emerging data on climate change related health risks and revise adaption plans when necessary.																																				
2. Strengthen current hunger relief systems to handle increased short-term and long-term demand.																																				
a. Work with the local food bank to develop plans to prepare for increased food demand from a higher percentage of the population.																																				
b. Remove barriers to, and encourage, development of home-grown food sources such as backyard and community gardens, urban food orchards, etc. This action item is also identified in Food and Agriculture section.																																				
3. Expand energy assistance programs: Work with the local utilities (e.g. EWEB/EPUD/NWN) to increase financial assistance so that marginalized populations can maintain utility service																																				
a. Target rental properties/landlords																																				
4. Conduct a food security assessment, as outlined in the Food and Agriculture section, and take action to increase the security of the community's food supply.																																				

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	Objective 2: Reduce the exposure of human populations to climate and energy related disasters.																																				
	5. Reduce risk of home fires due to wildfires in and around the urban area.																																				
	a. Increase efforts to educate homeowners about creating defensible space around their homes																																				
	6. Ensure no essential services are located within the 100 year flood zone.																																				
	a. identify essential emergency and non-emergency services																																				
	b. Create a plan to move essential services out of the flood zone over time.																																				
Health and Social Services	**Objective 3: Increase the capacity of Eugene's health and social services sectors, and the community at large, to meet the health-related challenges of climate change and peak oil by fostering greater public health involvement in climate change and energy planning.**																																				
	7. Assist local health agencies in educating employees and the public about the health risks posed by climate change.																																				
	a. Prioritize local public health resources to emphasize educating the public, staff, and administration about climate change, energy price volatility and the related system impacts and health risks.																																				
	b. Pursue funding for development of a climate change preparation strategy for the public health system																																				

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Urban Natural Resources																																				
Objective 1: Manage urban natural resources for multiple benefits																																				
1. Protect sensitive natural resource areas																																				
2. Increase funding for public acquisitions of property to facilitate the combined goals of stormwater management, flood abatement, stream shading, headwaters protection, and increased connectivity between wildlife corridors.																																				
3. Update urban forestry management plans to promote urban forest management on a city-wide scale, expanding beyond individual lots or streets.																																				
4. Identify and remove barriers that may discourage or prevent use of Low Impact Development (LID) practices during construction.																																				
Objective 2: Manage and update urban natural resource information to reflect current knowledge. Make data available to public and policy-makers.																																				
5. Compile and maintain an inventory of urban natural resources that is current and accessible to the public and policy-makers.																																				
Objective 3: Update vegetation management plans																																				
6. Plan for increased fires in forests surrounding the urban area																																				
Objective 4: Educate community about the importance of urban natural resources																																				
7. Provide educational resources to students, teachers, residents, and businesses about the benefits of trees, watershed health, and water quality.																																				
Objective 5: Manage rainfall (stormwater) to reduce flooding, recharge groundwater, and improve water quality.																																				
8. Manage stormwater and riparian areas to meet multiple goals: improved water quality, lowered stream temperatures, increased infiltration, increased capacity, and improved plant and wildlife habitat.																																				
9. Develop a program to encourage onsite treatment of stormwater from existing buildings and facilities.																																				

APPENDIX 1: COMPILED PRIORITY ACTION ITEMS

	High Priority Action Areas	GHG Reduction	Fossil Fuel Reduction	Adaptation Value*	Resource Implications	Lead: City of Eugene	Lead: Utilities	Lead: Business Sector	Lead: School Districts	Lead: Lane County	Lead: U of O	Lead: Lane CC	Lead: State of Oregon	Lead: Lane Transit Dist	Lead: Non-Profits	Lead:	Lead:	Partners: City of Eugene	Partners: Utilities	Partners: Business Sector	Partners: School Districts	Partners: Lane County	Partners: U of O	Partners: Lane CC	Partners: State of Oregon	Partners: Lane Transit Dist	Partners: Non-Profits	Partners:	Partners:	Partners:	Partners:	Timing: Ongoing	Timing: 1st Half, 2011	Timing: 2nd half, 2011	Timing: 1st half, 2012	Timing: 2nd half, 2012	Timing: Future	Comments
	Objective 6: Expand public and private programs to manage, and invest in, trees to cool buildings, pavement, and waterways.																																				
Urban Natural Resources	**10.** Increase planting, preservation, and maintenance of trees and shrubs																																				
Urban Natural Resources	**11.** Control invasive species on public lands including City and County parks in order to maintain the health of existing urban area habitats.																																				
Urban Natural Resources	**12.** Create incentives to encourage residents and businesses to plant trees.																																				
Urban Natural Resources	**Objective 7: Encourage ongoing water conservation**																																				
Urban Natural Resources	**13.** Increase water conservation as outlined in buildings and energy section																																				
Urban Natural Resources	**Objective 8: Strengthen protections of potable water**																																				
Urban Natural Resources	**14.** Strengthen and expand water quality protections to protect surface water quality and prevent the contamination of shallow wells.																																				

*Adaptation value: the extent to which an action prepares the community, or a system, for climate uncertainty and fuel price volatility.