### **APPENDIX C: Climate Change Implementation Matrix**

LEGEND:

Potential GHG Reduction: Total MAXIMUM metric tons (tonnes) of expected annual GHG emissions reduction

Start Up Costs: Low means less than \$10,000; Medium means \$10,000 to \$100,000; and High means above \$100,000.

Staffing Level: Low means existing staff can implement without changing existing priorities.

Medium means existing staff can implement but priorites of existing tasks must be changed

High means new staff is required or contract positions are required to implement these new tasks

Annual costs: Low means less than \$10,000; Medium menas \$10,000 to \$100,000; and High means above \$100,000.

Time Frame: Short means 1-3 years; Medium means 4-5 years; and Long means over 5 years.

Responsibility: City department personnel or outside agency responsible to implement or to track

Funding Sources: Suggestions for source of funds.

"C	UR TRANSPORTATION" ACTION	Potential	Start Up	Staffing	Estimated	Time	Responsibility	<b>Funding Sources</b>	How Progress Will Be	GHG Reduction			
	PLAN	GHG	Cost	Level	Annual	Frame			Measured	Goals			
	<u>I EAN</u>	Reduction			Cost								
	Reduce energy and fuel consumption for the transportation of people and goods												
TR1:	Continue to encourage greater residential and commercial densities within walking distance of high frequency transit centers and key services.												
TR2:	Encourage local purchasing of goods and services												
TR3:	Adopt a policy to limit City vehicle idling where practical. Evaluate equipping trucks with auxiliary electrical system for illumination and warning signs												
TR4:	Educate and encourage businesses, residents and ferry travelers to limit vehicle idling												
TR5:	Work with local auto dealers to further promote hybrid/electric vehicles sales within the community.												
TR6:	Increase bicycle lanes/trails connecting bus routes per the City of Edmonds Transportation Plan												
	Promote and encourage the use of	f alternat	e transpo	rtation									

TR7:						
	Coordinate with Community Transit to pursue funding opportunities to increase					
	transit service and improve convenience to encourage greater ridership.					
TR8:	Continue to implement sidewalk and street improvements for the Safe Routes to School program. Encourage the schools to increase funding for busing programs, promote carpooling and limit vehicle idling at schools.					
TR9:	Facilitate a transportation on demand service (i.e. flexcar parking spaces).					
TR10:	Add a shuttle service in the downtown area.					
TR11:	Promote bus/bike ridership with local business and community organizations.					

Total Lond	g Range GHG Reductions
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'	OUR LIFESTYLE" ACTION PLAN	Potential	Start Up	Staffing	Estimated	Time	Responsibility	Funding Sources	How Progress Will Be	GHG Reduction		
		GHG Reduction	Cost	Level	Annual Cost	Frame			Measured	Goals		
Reduce material consumption, waste generation, and resource depletion												
LF1:	Create a campaign to offer more publicly available recycling facilities in partnership with local businesses and simultaneously provide consumer marketing to inform customers about using them											
LF2:	Adopt a Zero Waste Goal and develop a Zero Waste Strategic Plan for Edmonds											
LF3:	Implement a food waste pick up service and coordinate a composting facility.											
LF 4:	Require use of recycled products for city produced collateral and marketing materials.											
LF 5:	Encourage programs to educate and assist homeowners in composting, and creation of facilities to convert organic waste to energy											
	Increase local food production											
LF6:	Encourage home and community gardens.											
LF7:	Identify City parks and other property, both City and private, as potential sites for neighborhood public P-patches											
LF8:	Allow vegetable gardens on the grass verges of City streets where the gardens will not impinge on pedestrian or cyclist safety and right of way											
LF9:	Continue to promote local farmers markets											
	Urge the State to adopt legislation to guarantee the right of solar access to home and community food gardens											
LF11:	Consider establishing a local carbon offset program to purchase land for public community gardens and to defray the cost of developing and administering them											

**Total Long Range GHG Reductions** 

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-	OUR BUILDING" ACTION PLAN	Potential GHG	Start Up Cost	Staffing Level	Estimated Annual	Time Frame	Responsibility	Funding Sources	How Progress Will Be Measured	GHG Reduction Goals
		Reduction			Cost					
	Replace Fossil Fuels with Renewal	ole Energy	Resourc	es in the	Generatio	on of Ene	rgy			•
BU1:	Promote the efforts of utilities and energy companies to increase the proportion of renewable resources in the supply of energy to buildings and facilities via	12,062	Low	Low	Low	Long			PUD reporting	200 tonnes - 2012 3000 tonnes - 2020 8000 tonnes - 2035 12062 tonnes - 2050
	a) Encouraging consumers to buy green power.	n/a	Low	Low	Low	Long	Planning Dept.	W/budget	n/a	n/a
	<b>b)</b> Supporting any corresponding legislation.	n/a	Low	Low	Low	Long	Planning Dept.	W/budget	n/a	n/a
BU2:	Promote the installation of renewable energy projects within the City via	571							PUD reporting	5 tonnes - 2012 100 tonnes - 2020 300 tonnes - 2035 571 tonnes - 2050
	a) Adopting appropriate zoning allowances	n/a	Low	Medium	Low	Long		W/budget		n/a
	b) Encouraging and supporting state legislators to sponsor appropriate bills	n/a	Low	Low	Low	Long	Planning Dept.	W/budget		n/a
	c) Creating financial assistance programs	n/a	Low	High	Low	Long		TBD		n/a
	Improve Energy Efficiency of and \	Nithin bui	ildings							•
BU3:	In the short term the City will promote energy efficiency via	(See below)								
	a) Managing the Energy Efficiency and Conservation Block Grant (also see transportation section)	1	Low	Medium	High	Short		Block Grants		1 tonne - 2012
	b) Encouraging residents and businesses to take advantage of the federal tax credit program for 2009 and 2010	132	Low	Low	Low	Short		W/Budget		132 tonnes - 2012
	c) Promoting the PUD's 10% Challenge through 2011	307	Low	Low	Low	Short		W/Budget	PUD reporting	307 tonnes - 2012
	d) Promoting any other programs that addresses energy efficiency for buildings		Low	Low	Low	Short		W/Budget		
BU4:	Promote a building retrofit program for improving energy efficiency to reach a long term goal of 55% reduction in energy consumption via	19,663				Long			Permit Database	100 tonnes - 2012 8000 tonnes - 2020 13000 tonnes - 2035 19663 tonnes - 2050

	a) Creating a financial assistance program operated by the City alone or jointly with utilities and energy companies to provide the incentive for overcoming the up-front installation costs	n/a	Medium	High	Medium	Long	TBD	
	b) Developing a program for contractor certification	n/a	Low	Medium	Low	Long	W/Budget	
	c) Updating the permitting procedures and methodology to streamline the process	n/a	Low	Low	Low	Long	W/Budget	
BU5:	Develop a program to achieve water conservation in existing buildings and landscaping with a goal of reducing water use by 30% by the year 2020.		Low	Medium	Low	Long		
	Require all new construction and r	emodelin	g to mee	t Green E	Built Stand	dards.		
BU6:	Apply as a minimum the Sliver Level LEED requirement including landscaping to all new residential and commercial buildings as well as major remodeling projects.  Increase the LEED level requirement as technology and economy dictates	651	High	High	High	Long		20 tonnes - 2012 125 tonnes - 2020 350 tonnes - 2035 651 tonnes - 2050
BU7:	Require a current energy audit at the time of building sales		Low	Low	Low	Long		

**Total Long Range GHG Reductions** 

33,387

<u>"Ol</u>	JR ENVIRONMENT" ACTION PLAN	Potential GHG Reduction	Start Up Cost	Staffing Level	Estimated Annual Cost	Time Frame	Responsibility	Funding Sources	How Progress Will Be Measured	GHG Reduction Goals
	Increase carbon sequestration thr	ough tree	planting	and mai	ntenance					
	Inventory tree and vegetation cover to determine existing resources of carbon sequestration then establish citywide goals and strategies to increase carbon sequestration.									
EN2:	Adopt ordinances to regulate the removal and replacement of significant trees and preclude sale of invasive non-native plants.									
	Update zoning regulations for parking lot landscaping to increase shading and reduce thermal gain.									
EN4:	Consider establishing a local carbon offset program to support tree planting and maintenance.									
	Reduce our environmental impact	on Puaet	Sound							
EN5:	Develop a program to achieve water conservation in existing buildings and landscaping with a goal of reducing water use 40% by 2050.	on ruger	<u> </u>							
EN6:	Promote the implementation of regulation to require the use of pervious surfaces where ever possible.									
	Increase understanding of what in	npacts we	may inc	ur from c	limate ch	ange		Į.		
EN7:	Participate in a regional vulnerable assessment and prepare aq local vulnerability assessment for Edmonds.		·	,						
EN8:	Continue to provide emergency planning and community awareness.									
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-	OUR ECONOMY" ACTION PLAN	Potential GHG Reduction	Start Up Cost	Staffing Level	Estimated Annual Cost	Time Frame	Responsibility	Funding Sources	How Progress Will Be Measured	GHG Reduction Goals
	Support environmentally beneficie	al busines	ses and j	ob creati	on					
EC1:	Continue to promote new green business opportunities.									
EC2:	Support and encourage green businesses recognition program.									
EC3:	Encourage local purchasing of goods and services									
	Enhance social equity amoung all	segments	of the co	mmunit	y					
EC4:	Expand the supply of affordable housing, which reduces commute times and congestion.									
EC5:	Support the creation of environmentally beneficial jobs, particularly for lower income residents.									

**Total Long Range GHG Reductions** 

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	IMPLEMENTATION ACTION PLAN	Start Up	Staffing	Estimated	Time	Responsibility	Funding Sources	How Progress Will Be
		Cost	Level	Annual	Frame			Measured
				Cost				
	Monitor success in achieving Action Plan Go	als and u	update P	lan period	lically			
IM1:	Evaluate future development applications and the City's Capital Improvement Program against compliance with the Climate Change Action Plan.							
IM2:	Prepare an annual report to the Planning Commission and City Council assessing the implementation progress of this Plan.							
IM3:	Hire a Sustainability Coordinator to advance efforts to implement the Climate Change Action Plan.							
IM4:	Appoint a Sustainability Commission to advance efforts to implement the Climate Change Action Plan.							

	OUTREACH ACTION PLAN	Start Up	Staffing	Estimated	Time	Responsibility	Funding Sources	How Progress Will Be					
		Cost	Level	Annual	Frame			Measured					
				Cost									
	Increase community education and commitment towards sustainability efforts												
CO1:	Increase City employees' awareness of climate protection issues and develop internal committees to implement appropriate sections of this Plan.												
CO2:													
	Encourage other levels of governm	nent to w	ork tow	ards susta	inability	of Edmonds							
CO3:	Advocate for state and federal legislation that advances GHG reductions and other sustainability efforts.  Continue to provide a leadership role with				-								
	other local governmental agencies to share Best Practices and success.												