

## 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 priorities 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 means \$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.

<b>"OUR TRANSPORTATION" ACTION PLAN</b>		Potential GHG Reduction	Start Up Cost	Staffing Level	Estimated Annual Cost	Time Frame	Responsibility	Funding Sources	How Progress Will Be Measured	GHG Reduction Goals
<b><i>Reduce energy and fuel consumption for the transportation of people and goods</i></b>										
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									
<b><i>Promote and encourage the use of alternate transportation</i></b>										

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<b>TR7:</b>	Coordinate with Community Transit to pursue funding opportunities to increase transit service and improve convenience to encourage greater ridership.									
<b>TR8:</b>	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.									
<b>TR9:</b>	Facilitate a transportation on demand service (i.e. flexcar parking spaces).									
<b>TR10:</b>	Add a shuttle service in the downtown area.									
<b>TR11:</b>	Promote bus/bike ridership with local business and community organizations.									

<b>Total Long Range GHG Reductions</b>	0
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<b>Total Long Range GHG Reductions</b>	0
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<b>"OUR BUILDING" ACTION PLAN</b>	Potential GHG Reduction	Start Up Cost	Staffing Level	Estimated Annual Cost	Time Frame	Responsibility	Funding Sources	How Progress Will Be Measured	GHG Reduction Goals
<b>Replace Fossil Fuels with Renewable Energy Resources in the Generation of Energy</b>									
<b>BU1:</b> 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) Supporting any corresponding legislation.	n/a	Low	Low	Low	Long	Planning Dept.	W/budget	n/a	n/a
<b>BU2:</b> 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
<b>Improve Energy Efficiency of and Within buildings</b>									
<b>BU3:</b> 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		
<b>BU4:</b> 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

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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		
<b>BU5:</b> 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				
<b>Require all new construction and remodeling to meet Green Built Standards.</b>									
<b>BU6:</b> Apply as a minimum the Silver 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
<b>BU7:</b> Require a current energy audit at the time of building sales		Low	Low	Low	Long				

<b>Total Long Range GHG Reductions</b>	<b>33,387</b>
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<b>"OUR ENVIRONMENT" ACTION PLAN</b>	<b>Potential GHG Reduction</b>	<b>Start Up Cost</b>	<b>Staffing Level</b>	<b>Estimated Annual Cost</b>	<b>Time Frame</b>	<b>Responsibility</b>	<b>Funding Sources</b>	<b>How Progress Will Be Measured</b>	<b>GHG Reduction Goals</b>
<b><i>Increase carbon sequestration through tree planting and maintenance</i></b>									
<b>EN1:</b> Inventory tree and vegetation cover to determine existing resources of carbon sequestration then establish citywide goals and strategies to increase carbon sequestration.									
<b>EN2:</b> Adopt ordinances to regulate the removal and replacement of significant trees and preclude sale of invasive non-native plants.									
<b>EN3:</b> Update zoning regulations for parking lot landscaping to increase shading and reduce thermal gain.									
<b>EN4:</b> Consider establishing a local carbon offset program to support tree planting and maintenance.									
<b><i>Reduce our environmental impact on Puget Sound</i></b>									
<b>EN5:</b> Develop a program to achieve water conservation in existing buildings and landscaping with a goal of reducing water use 40% by 2050.									
<b>EN6:</b> Promote the implementation of regulation to require the use of pervious surfaces where ever possible.									
<b><i>Increase understanding of what impacts we may incur from climate change</i></b>									
<b>EN7:</b> Participate in a regional vulnerable assessment and prepare aq local vulnerability assessment for Edmonds.									
<b>EN8:</b> Continue to provide emergency planning and community awareness.									

<b>Total Long Range GHG Reductions</b>	<b>0</b>
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<b>"OUR ECONOMY" ACTION PLAN</b>	<b>Potential GHG Reduction</b>	<b>Start Up Cost</b>	<b>Staffing Level</b>	<b>Estimated Annual Cost</b>	<b>Time Frame</b>	<b>Responsibility</b>	<b>Funding Sources</b>	<b>How Progress Will Be Measured</b>	<b>GHG Reduction Goals</b>
<b><i>Support environmentally beneficial businesses and job creation</i></b>									
<b>EC1:</b> Continue to promote new green business opportunities.									
<b>EC2:</b> Support and encourage green businesses recognition program.									
<b>EC3:</b> Encourage local purchasing of goods and services									
<b><i>Enhance social equity among all segments of the community</i></b>									
<b>EC4:</b> Expand the supply of affordable housing, which reduces commute times and congestion.									
<b>EC5:</b> Support the creation of environmentally beneficial jobs, particularly for lower income residents.									

<b>Total Long Range GHG Reductions</b>	<b>0</b>
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## Edmonds Climate Change Action Plan

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

