

2009-2012 Regional Climate Action Workplan			Target Date for Completion															
COMMENTS FROM WASHINGTON GAS IN PINK HIGHLIGHT			2009	2010				2011				2012				Emission Impact		
Recommendations	Performance Measures	Responsible Parties	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th			
ROW ID	I. Regional Greenhouse Gas Reduction Goals/Plans																	
1	1. 2012: Reduce 10% below 2012 Business-as-Usual																	
2	a) Reduce emissions of greenhouse gases in the region by 10% below projected business-as-usual levels by 2012 (i.e., return to 2005 levels).																X	Yes
3	b) COG prepares progress report with annual updates on meeting the 2012 goal.								X									
4	c) 100% of jurisdictions prepare government and community wide greenhouse gas inventories.								X									
5	d) 100% of jurisdictions prepare plan to reduce greenhouse gas emissions from government operations, including adopting a reduction target.												X					Yes
6	e) 50% of jurisdictions prepare community-wide plans to reduce greenhouse gas emissions.												X					Yes
7	c) 50% of jurisdictions prepare government and community wide greenhouse gas inventories.				X													
8	d) 100% of jurisdictions prepare government and community wide greenhouse gas inventories.								X									
9	e) 50% of jurisdictions prepare plan to reduce greenhouse gas emissions from government operations, including adopting a reduction target.												X					
10	f) 100% of jurisdictions prepare plan to reduce greenhouse gas emissions from government operations, including adopting a reduction target.																X	Yes
11	g) 50% of jurisdictions prepare community-wide plans to reduce greenhouse gas emissions.												X					
12	h) 100% of jurisdictions prepare community-wide plans to reduce greenhouse gas emissions.																X	Yes
13	2. 2020: Reduce 20% below 2005																	
14	a) COG prepares plan to meet 2020 Goal.																X	
15	3. 2050: Reduce 80% below 2005																	
16	II. Energy																	
17	Local/Regional Strategies for Government and Business																	
18	A. Improve Energy Efficiency in Buildings																	
19	1. Implement COG Green Building Policy																	
20	a) 100% of jurisdictions adopt and implement COG Green Building Policy requiring all new public-sector buildings to achieve LEED Silver levels and all private-sector commercial buildings to meet a regional LEED-certified plus standard or equivalent.								X									Yes
21	a) 100% of jurisdictions adopt and implement COG Green Building Policy for achievement of goal that all new public-sector buildings achieve at least LEED Silver levels and all private-sector commercial buildings meet a regional LEED-certified plus standard or equivalent.								X									
22	b) Intergovernmental Green Building Group (IGBG) proposes COG Green Building Policy Recommendations for schools and residential buildings.				X				X									
23	2. Set energy performance goals for govt buildings, new and existing																	
24	a) 80% of jurisdictions benchmark energy performance in all government buildings.												X					
25	b) 60% of jurisdictions disclose energy performance in all government buildings.												X					
26	3. Identify best practices to reduce local govt energy use by 15% by 2012																	
27	a) 100% of jurisdictions reduce energy use by 10% below business-as-usual by 2012.								X								X	Yes
28	b) 100% of jurisdictions submit data to COG regarding energy efficiency program implementation.				X				X				X					
29	4. Develop incentives for retrofitting existing buildings, commercial and residential																	

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30	a) 60% of jurisdictions have programs in place to support home energy retrofits, such as financing incentives, grants, or technical assistance.	Local Governments, State Energy Offices, Weatherization Programs, Maryland Clean Energy Center, COG											X				Yes
31	b) All three states standardize training and certification of auditors and contractors, facilitating reciprocity across the region.	State Energy Offices, Weatherization Programs, Community Colleges, Building Performance Institute, RESNET				X											
32	c) 35% of jurisdictions develop and implement Home Energy Loan Programs.	Local Governments, COG, Maryland Clean Energy Center, State Energy Offices, Private Sector											X				Yes
33	d) COG prepares a feasibility study on a regional financing option to support Home Energy Loan Program.	COG				X											
34	e) 10,000 residential units retrofitted annually to achieve a 5-10 percent energy saving.	Community					X					X				X	Yes
35	f) 500-1000 residential units retrofitted annually to achieve a 10-30 percent energy saving.	Community					X					X				X	Yes
36	g) 50% of jurisdictions have commercial building energy usage benchmarking requirements.	Local Governments														X	
37	h) 250 buildings retrofitted annually to achieve a 5-10 percent energy savings.	Community					X					X				X	Yes
38	i) 100 buildings retrofitted annually to achieve a 10-30 percent energy savings.	Community					X					X				X	Yes
39	5. Develop affordable energy efficiency programs for homeowners and businesses																
40	6. Promote use of energy efficient appliances																
41	a) 30% of jurisdictions implement incentive programs to encourage purchase of new energy efficient appliances.	State or Local Governments, Utilities											X				Yes
42	b) 30% of same jurisdictions implement education programs on site-to-source appliance efficiency													X			Yes
43	7. Revise state and local building codes to promote energy efficiency																
44	a) Add input from Brendan Shane																
45	b) Establish new home site-to-source CO2e emissions standard of <6 lbs per sq. ft. for space heating, water heating, cooking, and clothes drying.	COG, State and Local Government														X	Yes
46	c) 50% of jurisdiction establish ordinances that prohibit electric resistance heat as the primary source of water heat in new construction where alternate energy sources are available.	COG, State and Local Government and Utilities												X			
47	8. Develop green affordable housing policies/programs																
48	a) Add input from Brendan Shane																
49	9. Identify best practices for improving efficiency for public and private buildings																
50	a) Potentially add recommendation on LEED-EB Operations and Maintenance																
51	B. Reduce Demand for Energy																
52	1. Partner with electric, gas and water utilities on regional energy conservation																

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53	a) 30% of jurisdictions partner with utilities to implement smart grid technology.	State or Local Governments, Utilities					X										
54	b) COG partners with utilities and government to track home energy retrofits and smart grid implementation.	COG, State and Local Government, Utilities					X				X				X		
55	c) Pilot natural gas conversion programs in 30% of jurisdictions, emphasizing hot water heating, for low-income and other home-owners utilizing energy efficiency block grant funds	COG, State and Local Government, Utilities					X									Yes	
56	2. Expand recycling programs																
57	a) Add from John Snarr																
58	3. Reduce energy use at area water and wastewater treatment plants and landfills																
59	4. Promote energy efficient streetlights across the region																
60	a) 60% of jurisdictions implement a program to replace older street lights with new more efficient technology.	Local Governments, COG, Clinton Climate Foundation, Utilities, Vendors											X			Yes	
61	5. Promote regional energy performance contracting [delete? -> and cooperative purchasing]																
62	b) 50% of jurisdictions have experience with energy performance contracting.																
63	6. Explore opportunities to remove the disincentive for utilities to invest in energy conservation																

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64	C. Promote Clean Energy Sources																	
65	1. Adopt a goal of 20 percent renewable energy purchase by local governments by 2015																	
66		a) 100% of jurisdictions purchase or consume 10 percent renewable energy by 2012.										X				Yes		
67		b) 75% of local governments install renewable energy system on government buildings.								X								
68		c) 50% of jurisdictions assist or incentivize consumer purchase of renewable energy, such as Clean Energy Rewards Program.										X						
69		d) 25% of consumers purchase renewable energy.													X	Yes		
70	2. Evaluate regional cooperative purchase to meet the 20% renewable purchase goal																	
71	3. Examine options for removing non-financial barriers to implementing renewable energy, e.g., solar panels																	
72		a) 75% of jurisdictions prepare plans, employ incentives, and implement government projects to increase deployment of renewable energy technology.										X				Yes		
73		b) All state and local jurisdictions remove barriers to implementing renewable energy by the private sector, e.g., solar panels.													X			
74		c)																
75		d)																
76		e) 10000 residential units have solar																
77	4. Explore the possibility of implementing a community energy planning process in the region																	
78		a) Northern Virginia Regional Commission completes pilot community energy planning process in Northern Virginia.						X										
79	5. Develop a regional inventory of renewable energy capacity and production, including solar, geothermal, district heating/cooling, wind, and biofuels																	
80	D. Reduce Non-CO <sub>2</sub> Greenhouse Gas Emissions																	
81	1. Best practices to reduce methane and biosolids from wastewater treatment facilities																	
82		a) 100% of wastewater facilities identify and implement best practices to reduce methane and biosolids from wastewater treatment facilities. Evaluate the potential for reducing greenhouse gas emissions through methane recapture.										X				Yes		
83		2. Adopt industry standard protocols to quantify greenhouse gas emissions and reductions for water and wastewater utilities																
84	3. Investigate utilization of recaptured methane in CHP distributed generation application																	
85	III. Transportation and Land Use																	
86	Local and Regional Strategies for Government and Business																	
87	A. Increase Fuel Efficiency and Use of Clean Fuel Vehicles																	
88	1. Promote clean fuel vehicles (cars, trucks, buses)																	
89	2. Adopt regional green fleet policy																	
90		a) COG adopts green fleet policy that includes accelerated implementation of federal CAFE Standards/GHG emission standards for local government fleets.						X										
91		b) 30% of jurisdictions implement the COG green fleet policy.													X	Yes		

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92	3. Promote use of clean fuels																	
93	a) 50% of jurisdictions implement alternative fuel infrastructure projects needed to support alternative fuel vehicle technology implementation (e.g., natural gas, biofuel, hydrogen, electricity).	Local Governments, COG, Private Sector											X			Yes		
94	B. Reduce Vehicle Miles Traveled (VMT)																	
95	1. Adopt VMT reduction goals																	
96	a) TPB identifies feasible regional VMT reduction goals and recommends cost-effective VMT reduction programs.	TPB																
97	2. Invest more in transit																	
98	3. Expand transit use (incentives, exclusive transit lanes)																	
99	a) 100% of transit agencies examine options to promote the increased use of existing transit capacity.	Transit Agencies								X								
100	4. Expand transit infrastructure																	
101	5. Expand commuter options (car sharing, financial incentives)																	
102	a) TPB adopts goal to expand commuter options (telework, car sharing, bicycle/pedestrian, financial incentives).	TPB, Commuter Connections																
103	6. Promote transit-oriented development																	
104	a) 80% of jurisdictions promote transit-oriented development/Concentrate future growth in Regional Activity Centers.	Local Governments, Planning Directors, Metropolitan Development Policy Committee								X						Yes		
105	b) 50% of jurisdictions develop plans to meet the Greater Washington 2050 targets for growth (75% of commercial square feet and 50% of households) occurring in Regional Activity Centers.	Local Governments, Planning Directors, Metropolitan Development Policy Committee										X						
106	c) 20% of TOD communities implement CO2e lbs. per sq. foot emission standards based on full-fuel-cycle analysis for new construction	Local Governments, Planning Directors, Metropolitan Development Policy Committee											X			Yes		
107	d) 10% of TOD communities develop plan to host CHP distributed generation facilities	Local Governments, Planning Directors, Metropolitan Development Policy Committee											X			Yes		
108	7. Examine parking policies to reduce VMT																	
109	a) 50% of jurisdictions examine parking policies to reduce VMT.	Local Governments											X					
110	C. Travel Efficiency																	
111	1. Adopt best practices for traffic engineering improvements and road management to reduce VMT and congestion																	

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112	a) 60% of jurisdictions adopt best practices for traffic engineering improvements and road management to reduce VMT and congestion.	Local Governments, DOTs, TPB								X						Yes
113	2. Implement the Metropolitan Area Transportation Operations Coordination Program															
114	3. Enforce existing idling regulations															

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115	4. Explore opportunities to reduce emissions from the aviation sector															
116	<i>a) Explore opportunities to reduce emissions from the aviation sector.</i>		MWAA, COG, Federal, State, and Local Government					X								
117	5. Explore opportunities to reduce emissions from the freight sector															
118	<i>a) TPB adopts goals to reduce emissions from the freight sector, including considerations of shifting freight from trucks to rail.</i>		TPB													
119	D. Land Use															
120	1. Develop plan to meet goal of increased tree canopy															
121	<i>a) COG and local governments prepare regional plan to meet goal of increased tree canopy.</i>		COG, Local Governments										X			
122	2. Evaluate Leadership in Energy and Environmental Design (LEED-ND) standards for new development															
123	3. Carefully plan the location and design of new, infill, and redevelopment projects															
124	4. Integrate GHG analyses into comprehensive planning, new projects															
125	<i>a) 50% of jurisdictions integrate greenhouse gas analyses into comprehensive planning for major new transportation and other new capital projects.</i>		Local Governments						X							
126	E. Regional Metropolitan Planning Process															
127	1. Develop regional metropolitan planning process for greenhouse gases															
128	<i>a) TPB develops a regional metropolitan planning process for greenhouse gases modeled after the current process for transportation and air quality planning.</i>		TPB													
129	2. Make greenhouse gas reduction a stated goal of regional transportation planning activities															
130	3. Consult with other regions around the country to broadly evaluate options for regional approaches to greenhouse gas reductions															
131	IV. Adaptation															
132	Local/Regional Strategies for Government and Business															
133	1. Research best practices to prepare for effect of climate change															
134	<i>a) Evaluate impact of climate change on one or more sectors, including water, air, energy, and public safety.</i>		COG, Universities, Private Sector, State and Federal Government									X				
135	2. Partner with universities and private sector to research climate change and adaptation strategies															
136	3. Analyze impacts and risks to region's transportation infrastructure, buildings and populations in low-lying areas															
137	4. Develop regional adaptation policies															
138	5. Conduct Adaptation Workshops															
139	<i>a) COG holds general and sector-specific adaptation workshops.</i>		COG	X		X										
140	V. Economic Development															
141	1. Promote green business & green jobs															
142	<i>a) 100% of jurisdictions promote green business &amp; green jobs.</i>		Local Governments										X			
143	2. Promote eco-business zones															
144	3. Promote cooperative green purchasing															
145	<i>a) 60% of jurisdictions adopt green purchasing policies.</i>		Local Governments, COG						X							
146	<i>b) 30% of jurisdictions participate in a cooperative green purchasing program.</i>		Local Governments, COG										X			
147	4. Promote local food production options															
148	5. Promote local vendors and suppliers															

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149	6. Regional green jobs analysis															
150	a) COG expands DC Green Jobs Analysis to the Region.		COG							X						
151	<b>VI. Financing Mechanisms</b>															
152	1. Evaluate financing mechanisms for energy efficiency projects (energy fee, tax, other)															
153	2. Establish a clean energy fund															
154	3. Participate in cap and trade program revenues															
155	4. Develop a regional carbon offset fund for preserving tree canopy															
156	5. Secure addtl financing for public transit															
157	6. Establish funding for building retrofits															
158	<b>VII. Regional Outreach &amp; Education</b>															
159	1. Implement a regional public education campaign															
160	2. Develop partnerships with private sector and other organizations															
161	a) Develop partnerships and coordinate with others to develop and implement a regional public education campaign.		COG, Utilities, State Energy Offices	X					X							Yes
162	3. Support COG member outreach efforts															
163	a) 35% of jurisdictions develop energy challenge/pledge programs (community, green business, employee) and/or encourage energy leaders programs.		Local Governments						X							Yes
164	b) 35% of jurisdictions develop green business challenges.		Local Governments						X							Yes
165	<b>VIII. COG Climate Change Program</b>															
166	1. Establish COG Climate and Energy Policy Committee															
167	2. Develop work program priorities, schedule, staffing plan, budget															
168	3. Prepare Plan to reach 2012 and 2020 goals															
169	4. Evaluate cost effectiveness of measures															
170	5. Design outreach and education program															
171	6. Track initiatives and develop advocacy positions															
172	a) Establish advocacy subcommittee.		CEEPC, COG	X												
173	7. Develop system for tracking progress toward GHG goals and periodically review targets															
174	8. Develop a regional standardized analytical methodology for use by individual local governments in developing their greenhouse gas emission inventories															
175	9. Prepare annual progress report to COG Board of Directors on implementation progress for COG's Climate Change Initiative															