

2009-2012 Regional Climate Action Workplan				Target Date for Completion													
***COMMITTEE REVIEW DRAFT DO NOT CITE OR QUOTE***				2009		2010				2011				2012		Emission Impact	
Recommendations	Performance Measures	Responsible Parties		4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd		4th
Yellow	Existing Measure																
Orange	Proposed Deletion																
Blue	Proposed Addition or Revision																
Purple	Added based on staff/member recommendations after ad-hoc workgroup meeting.																
ROW ID	I. Regional Greenhouse Gas Reduction Goals/Plans																
1	1. 2012: Reduce Emissions to 2005 Levels																
2		<i>a) Reduce emissions of greenhouse gases in the region to 2005 levels by 2012.</i>	Local Governments, COG, Community (Business and Individuals)													X	Yes
3		<i>b) CEEPC identifies work program priorities for the year.</i>	CEEPC		X				X				X				
4		<i>b) COG prepares progress report with annual updates on meeting the 2012 goal.</i>	COG			X			X				X				
5		<i>c) 50% of jurisdictions prepare government and community wide greenhouse gas inventories.</i>	Local Governments				X										
6		<i>d) 100% of jurisdictions prepare government and community wide greenhouse gas inventories.</i>	Local Governments							X							
7		<i>e) 50% of jurisdictions prepare plan to reduce greenhouse gas emissions from government operations, including adopting a reduction target.</i>	Local Governments					X				X					Yes
8		<i>f) 100% of jurisdictions prepare plan to reduce greenhouse gas emissions from government operations, including adopting a reduction target.</i>	Local Governments									X			X		Yes
9		<i>g) 50% of jurisdictions prepare community-wide plans to reduce greenhouse gas emissions.</i>	Local Governments									X					
10		<i>h) 100% of jurisdictions prepare community-wide plans to reduce greenhouse gas emissions.</i>	Local Governments												X		Yes
11	2. 2020: Reduce 20% below 2005																
12		<i>a) COG prepares plan to meet 2020 Goal.</i>	COG												X		Yes
13	3. 2050: Reduce 80% below 2005																
14	II. Energy																
15	Local/Regional Strategies for Government and Business																
16	A. Improve Energy Efficiency in Buildings																
17	1. Implement COG Green Building Policy																
18		<i>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.</i>	Local Governments, IGBG, USGBC						X								Yes
19		<i>b) Intergovernmental Green Building Group (IGBG) proposes COG Green Building Policy Recommendations for schools and residential buildings.</i>	IGBG							X							
20	2. Set energy performance goals for govt buildings, new and existing																
21		<i>a) 80% of jurisdictions benchmark energy performance in all government buildings.</i>	Local Governments											X			
22		<i>b) 60% of jurisdictions disclose energy performance in all government buildings.</i>	Local Governments											X			
23	3. Identify best practices to reduce local govt energy use by 15% by 2012 <b>MOVE TO SECTION B BELOW</b>																
24		<i>a) 100% of jurisdictions reduce energy use by 10% below business-as-usual by 2012.</i>	Local Governments												X		Yes
25		<i>b) 100% of jurisdictions submit data to COG regarding energy efficiency program implementation.</i>	Local Governments, COG		X				X				X				

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26	4. Develop incentives for retrofitting existing buildings, commercial and residential															
27	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
28	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											
29	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
30	d) COG prepares a feasibility study on a regional financing option to support Home Energy Loan Program.	COG			X											
31	e) 10,000 residential units retrofitted annually to achieve a 5-10 percent energy saving.	Community					X				X				X	Yes
32	f) 500-1000 residential units retrofitted annually to achieve a 10-30 percent energy saving.	Community					X				X				X	Yes
33	g) 50% of jurisdictions have commercial building energy usage benchmarking requirements.	Local Governments													X	
34	h) 250 buildings retrofitted annually to achieve a 5-10 percent energy savings.	Community					X				X				X	Yes
35	i) 100 buildings retrofitted annually to achieve a 10-30 percent energy savings.	Community					X				X				X	Yes
36	5. Develop affordable energy efficiency programs for homeowners and businesses															
37	6. Promote use of energy efficient appliances															
38	a) 30% of jurisdictions implement incentive programs to encourage purchase of new energy efficient appliances.	State or Local Governments, Utilities									X					Yes
39	7. Revise state and local building codes to promote energy efficiency															
40	a) IGBG evaluates and develops recommendations for enhancements to building codes for energy efficiency.	IGBG, Local Govts									X					
41	8. Develop green affordable housing policies/programs															
42	a) IGBG evaluates and develops recommendations for development of green affordable housing policies/programs.	IGBG, Local Govts									X					
43	9. Identify best practices for improving efficiency for public and private buildings															
44	a) 3 regional pilots implemented for LEED-EB Operations and Maintenance.	Local Governments, Private Sector												X		Yes
45	B. Reduce Demand for Energy															
46	1. Identify best practices to reduce local govt energy use by 15% by 2012 (RELOCATED)															
47	a) 100% of jurisdictions reduce energy use by 10% below business-as-usual by 2012.	Local Governments													X	Yes
48	b) 100% of jurisdictions submit data to COG regarding energy efficiency program implementation.	Local Governments, COG		X				X				X				
49	2. Partner with electric, gas and water utilities on regional energy conservation															
50	a) 30% of jurisdictions partner with utilities to implement smart grid technology.	State or Local Governments, Utilities					X									Yes
51	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	
52	3. Expand recycling programs															

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53		<i>a) Region increases diversion rate (percent of waste diverted from landfills/incinerators) from 30 to 40%.</i>	Local Governments, Residents, Businesses												X		Yes
54	4. Reduce energy use at area water and wastewater treatment plants and landfills																
55	5. Promote energy efficient streetlights across the region																
56		<i>a) 60% of jurisdictions implement a program to replace older street lights with new more efficient technology.</i>	Local Governments, COG, Clinton Climate Foundation, Utilities, Vendors											X			Yes
57	6. Promote regional energy performance contracting and expand through cooperative purchasing																
58		<i>b) 50% of jurisdictions have experience with energy performance contracting.</i>	Local Governments, ESCOs											X			Yes
59	7. Explore opportunities to remove the disincentive for utilities to invest in energy conservation					X											
60	C. Promote Clean Energy Sources																
61	1. Adopt a goal of 20 percent renewable energy purchase by local governments by 2015																
62		<i>a) 100% of jurisdictions purchase or consume 10 percent renewable energy by 2012.</i>	Local Governments, Power Purchase Groups, COG, Utilities, Green Power Providers										X				Yes
63		<i>b) 75% of local governments install renewable energy system on government buildings.</i>	Local Governments, Green Power Companies							X							Yes
64		<i>c) 50% of jurisdictions assist or incentivize consumer purchase of renewable energy, such as Clean Energy Rewards Program.</i>	Local Governments										X				
65		<i>d) 25% of consumers purchase renewable energy.</i>	Consumers, Utilities, Green Power Providers													X	Yes
66		<i>d) 50% of consumers purchase a portion of their electricity from renewable energy.</i>	Consumers, Utilities, Green Power Providers													X	Yes

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67	2. Evaluate regional cooperative purchase to meet the 20% renewable purchase goal																
68	3. Examine options for removing non-financial barriers to implementing renewable energy, e.g., solar panels																
69	a) 75% of jurisdictions prepare plans, employ incentives, and implement government projects to increase deployment of renewable energy technology.		Local Governments										X				Yes
70	b) All state and local jurisdictions remove barriers to implementing renewable energy by the private sector, e.g., solar panels.		Federal, State, and Local Government													X	
71	c) 1000 residential, commercial, or govt buildings have renewable energy systems installed.		Federal, State, and Local Government, Private Sector					X									Yes
72	d) 5000 residential, commercial, or govt buildings have renewable energy systems installed.		Federal, State, and Local Government, Private Sector									X					Yes
73	e) 10000 residential, commercial, or govt buildings have renewable energy systems installed.		Federal, State, and Local Government, Private Sector													X	Yes
74	4. Explore the possibility of implementing a community energy planning process in the region																
75	a) Northern Virginia Regional Commission completes pilot <b>community energy strategy</b> in Northern Virginia.		NVRC, Local Government					X									
76	5. Develop a regional inventory of renewable energy capacity and production, including solar, geothermal, district heating/cooling, wind, and biofuels							X									
77	D. Reduce Non-CO <sub>2</sub> Greenhouse Gas Emissions																
78	1. Best practices to reduce methane and biosolids from wastewater treatment facilities																
79	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.		Wastewater Utilities, Water Resources Technical Committee										X				Yes
80	2. Adopt industry standard protocols to quantify greenhouse gas emissions and reductions for water and wastewater utilities																

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81	<b>III. Transportation and Land Use</b>																
82	<b>1. TPB Work Program Activities</b>																
83	1. Prepare greenhouse gas emission inventories																
84	<i>a) TPB prepares regional greenhouse gas inventories and forecasts for all milestone years.</i>			TPB		X											
85	2. Evaluate greenhouse gas emission reduction measures																
86	<i>a) Perform cost effectiveness and cost-benefit analysis of greenhouse gas emission reduction measures, e.g., VMT reduction from travel demand management, systems operations improvements such as signal optimization and MATOC, and freight operations.</i>			TPB		X											
87	3. Identify emission reduction strategies																
88	<i>a) TPB identifies cost effective strategies for implementation</i>			TPB		X											
89	4. Conduct Metropolitan Planning Process																
90	<i>a) TPB conducts continuing regional metropolitan planning processes for greenhouse gases; continue ongoing TPB activities and incorporate requirements on MPO planning activities included in pending federal climate change and transportation authorization legislation once enacted.</i>			TPB		X											
91	<b>2. Local and Regional Strategies for Government and Business</b>																
92	A. Increase Fuel Efficiency and Use of Clean Fuel Vehicles																
93	1. Promote clean fuel vehicles (cars, trucks, buses)																
94	2. Adopt regional green fleet policy																
95	<i>a) COG adopts green fleet policy that includes accelerated implementation of federal CAFE Standards/GHG emission standards for local government fleets.</i>			COG				X									
96	<i>b) 30% of jurisdictions implement the COG green fleet policy.</i>			Local Governments												X	Yes
97	3. Promote use of clean fuels																
98	<i>a) 50% of jurisdictions implement alternative fuel infrastructure projects needed to support alternative fuel vehicle technology implementation (e.g., natural gas, biofuel, hydrogen, electricity).</i>			Local Governments, COG, Private Sector										X			Yes
99	B. Travel Efficiency																
100	1. Adopt VMT/Capita reduction goals																
101	<i>a) 60-70% of jurisdictions implement programs that reduce VMT per capita.</i>			Local Governments, Private Sector										X			Yes
102	2. Invest more in transit																
103	3. Expand transit use (incentives, exclusive transit lanes)																
104	<i>a) 100% of transit agencies examine options to promote the increased use of existing transit capacity.</i>			Transit Agencies							X						
105	4. Expand transit infrastructure																

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106	5. Expand commuter options (car sharing, financial incentives)																
107	a) 80% of jurisdictions implement programs to expand commuter options (telework, car sharing, bicycle/pedestrian, financial incentives).	Local Govts							X								Yes
108	6. Promote transit-oriented development																
109	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
110	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					Yes
111	7. Examine parking policies to reduce VMT																
112	a) 60-70% of jurisdictions implement parking policies that reduce VMT.	Local Governments												X			Yes
113	8. Adopt best practices for traffic engineering improvements and road management to reduce VMT and congestion																
114	a) 60% of jurisdictions adopt best practices for traffic engineering improvements and road management to reduce greenhouse gases.	Local Governments, DOTs, TPB									X						Yes
115	9. Implement the Metropolitan Area Transportation Operations Coordination (MATOC) Program	Now reflected in III.1.2															
116	10. Enforce existing idling regulations																
117	a) 60% of jurisdictions conduct enhanced enforcement of idling regulations.	Local Governments			X												Yes
118	11. Explore opportunities to reduce emissions from the aviation sector																
119	a) Adopt and implement plans to reduce emissions from the aviation sector.	MWAA, COG, Federal, State, and Local Government						X									Yes
120	12. Explore opportunities to reduce emissions from the freight sector																
121	a) TPB adopts goals to reduce emissions from the freight sector, including considerations of shifting freight from trucks to rail.	Now reflected in III.1.2															
122	D. Land Use																
123	1. Develop plan to meet goal of increased tree canopy																
124	a) Local governments prepare plans to meet goal of increased tree canopy.	COG, Local Governments, USFS, State Forestry Offices, Private Landowners								X							Yes
125	b) COG and local governments prepare regional plan to meet goal of increased tree canopy.	COG, Local Governments, USFS, State Forestry Offices, Private Landowners										X					Yes
126	2. Evaluate Leadership in Energy and Environmental Design (LEED-ND) standards for new development																
127	a) IGBG and MDPC evaluate and propose approach to implementing LEED-ND.	IGBG, MDPC						X									
128	3. Carefully plan the location and design of new, infill, and redevelopment projects																

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129	4. Integrate GHG analyses into comprehensive planning, new projects															
130	a) COG develops tool to assist local governments include greenhouse gas analysis in local planning.		COG				X									
131	b) 50% of jurisdictions integrate greenhouse gas analyses into comprehensive planning .		Local Governments							X						
132	E. Regional Metropolitan Planning Process		Now reflected in III.1.4													
133	1. Develop regional metropolitan planning process for greenhouse gases		Now reflected in III.1.4													
134	a) TPB develops a regional metropolitan planning process for greenhouse gases modeled after the current process for transportation and air quality planning.		Now reflected in III.1.4													
135	2. Make greenhouse gas reduction a stated goal of regional transportation planning activities		Now reflected in III.1.4													
136	3. Consult with other regions around the country to broadly evaluate options for regional approaches to greenhou		Now reflected in III.1.4													
137	IV. Adaptation															
138	Local/Regional Strategies for Government and Business															
139	1. Analyze impacts and risks to region's transportation infrastructure, buildings and populations in low-lying areas															
140	a) Evaluate impact of climate change on one or more sectors, including water, air, energy, and public safety.		COG, Universities, Private Sector, State and Federal Government					X								
141	2. Research best practices to prepare for effect of climate change															
142	a) Prioritize stakeholder concerns and document regional adaption options.		COG, Universities, Private Sector, State and Federal Government					X								
143	3. Partner with universities and private sector to research climate change and adaptation strategies															
144	a) Conduct literature review to determine lessons learned from other regions.		COG, Universities, Private Sector, State and Federal Government				X									
145	4. Develop regional adaptation policies															
146	a) Develop draft regional adaptation strategy.		COG, Universities, Private Sector, State and Federal Government											X		
147	5. Conduct Adaptation Workshops															
148	a) COG holds general and sector-specific adaptation workshops.		COG, Universities, Private Sector, State and Federal Government	X		X										

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149	<b>V. Economic Development</b>															
150	<b>1. Promote green business &amp; green jobs</b>															
151	<i>a) 50% of jurisdictions implement programs to promote clean energy industries.</i>	Local Governments				X										
152	<b>2. Promote eco-business zones</b>															
153	<i>a) One regional pilot project promoting a renewable energy park.</i>	Federal, State, and Local Government, Private Sector												X		Yes
154	<b>3. Promote cooperative green purchasing</b>															
155	<i>a) 60% of jurisdictions adopt green purchasing policies.</i>	Local Governments, COG							X							
156	<i>b) 30% of jurisdictions participate in a regional/subregional cooperative green purchasing program.</i>	Local Governments, COG											X			
157	<b>4. Expand local food production options</b>							X				X				X
158	<b>5. Expand local vendors and suppliers</b>							X				X				X
159	<b>6. Regional green jobs analysis</b>															
160	<i>a) COG expands DC Green Jobs Analysis to the Region.</i>	COG								X						
161	<b>VI. Financing Mechanisms</b>															
162	<b>1. Evaluate financing mechanisms for energy efficiency projects (energy fee, tax, other)</b>															
163	<i>a) COG collaborates with jurisdictions to develop feasibility study and recommendations for innovative financing programs for energy efficiency for single and multifamily homes.</i>	COG, Local Governments				X										
164	<b>2. Establish a clean energy fund</b>															
165	<i>a) COG collaborates with the Greater Washington Board of Trade Carbon Cut Program and area jurisdictions to develop feasibility study and recommendations for establishing a regional clean energy fund.</i>	COG, Local Governments, Board of Trade				X										
166	<b>3. Participate in cap and trade program revenues</b>															
167	<b>4. Develop a regional carbon offset fund for preserving tree canopy</b>															
168	<i>a) COG collaborates with the Greater Washington Board of Trade Carbon Cut Initiative.</i>	COG, Local Governments, Board of Trade		X												Yes
169	<b>5. Secure addtl financing for public transit</b>															
170	<i>a) COG Submits grant request for federal funding of Bus Rapid Transit.</i>	COG, Local Governments, Transit Agencies	✓													
171	<b>6. Establish funding for building retrofits</b>															
172	<i>a) One jurisdiction establishes home energy loan program or other innovative municipal financing program for building retrofits.</i>	COG, Local Governments			X											Yes



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173	<b>VII. Regional Outreach &amp; Education</b>																
174	1. Implement a regional public education campaign																
175		a) Identify targets for outreach campaign, implement regional survey to assess awareness.	COG, Universities, Local Governments, Utilities, State Energy Offices			X											
176		b) Region develops and implements targeted public education campaigns, including development of press packs and social marketing campaign materials.	COG, Universities, Local Governments, Utilities, State Energy Offices	X				X									Yes
177	2. Develop partnerships with private sector and other organizations																
178		a) Develop partnerships and coordinate with others to fund a regional public education campaign.	COG, Universities, Local Governments, Utilities, State Energy Offices	X		X											Yes
179	3. Support COG member outreach efforts																
180		a) 35% of jurisdictions develop energy challenge/pledge programs (community, citizens) and/or encourage energy leaders programs.	Local Governments, Private Sector						X								Yes
181		b) 35% of jurisdictions develop green business challenges (businesses, employees).	Local Governments, Private Sector						X								Yes
182	<b>VIII. COG Climate Change Program</b>																
183	1. Establish COG Climate and Energy Policy Committee			COG	✓												
184	2. Develop work program priorities, schedule, staffing plan, budget			COG, Local Govts	X												
185	3. Prepare Plan to reach 2012 and 2020 goals			COG, Local Govts	X											X	Yes
186	4. Evaluate cost effectiveness of measures			COG				X									
187	5. Design outreach and education program			COG, State and Local Governments, Utilities, Area Universities				X									
188	6. Track initiatives and develop advocacy positions																
189	a) Establish legislative and regulatory affairs subcommittee.			CEEPC, COG	✓												
190	7. Develop system for tracking progress toward GHG goals and periodically review targets			COG, Local Govts			X										
191	8. Develop a regional standardized analytical methodology for use by individual local governments in developing their greenhouse gas emission inventories																
192		a) COG holds workshops with national organizations on greenhouse gas emission protocols.	COG, Local Govts, ICLEI, EPA, WRI, The Climate Registry	✓		X											
193	9. Prepare annual progress report to COG Board of Directors on implementation progress			COG				X			X					X	