2010-2012 Regional Climate and Energy Action Workplan

ROW ID	Recommendations Performance Measures [a]	Responsible Parties	2010				2011				2012				Emission Impact
			1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	
	I. Regional Greenhouse Gas Reduction Goals/Plans														
1	**2012 GOAL: Reduce Greenhouse Gas Emissions to 2005 Levels**	Region												X	Yes
2															
3	**Regional Plan to Meet 2012 Goal**														
4	Prepare plan to reduce greenhouse gas emissions in the region to 2005 levels by 2012.	Local Governments, COG, Community (Business and Individuals)	X												Yes
5	Identify work program priorities for the calendar year.	CEEPC	X				X				X				
6															
7	**Inventories**														
8	Provide technical support to individual local governments for developing greenhouse gas emission inventories (including fact sheets, calculators, and workshops focused on activity data, emission factors, and protocols/methodologies).	COG, ICLEI, EPA, WRI, The Climate Registry		X											
9	50% of jurisdictions prepare government and community wide greenhouse gas inventories.	Local Governments			X										
10	100% of jurisdictions prepare government and community wide greenhouse gas inventories.	Local Governments							X						
11															
12	**Local Climate and Energy Plans**														
13	50% of jurisdictions prepare plan to reduce greenhouse gas emissions from government operations, including adopting a reduction target.	Local Governments						X							Yes
14	100% of jurisdictions prepare plan to reduce greenhouse gas emissions from government operations, including adopting a reduction target.	Local Governments								X					Yes
15	50% of jurisdictions prepare community-wide plans to reduce greenhouse gas emissions.	Local Governments								X					
16	100% of jurisdictions prepare community-wide plans to reduce greenhouse gas emissions.	Local Governments												X	Yes
17	Adopt plans to reduce emissions from the aviation sector, including adopting a reduction target.	MWAA, Airlines, COG, Federal, State, and Local Government						X							Yes
18	Evaluate cost effectiveness of key actions to meet the 2012 goal.	COG						X							
19															
20	**Tracking and Reporting**														
21	Develop system for tracking progress toward greenhouse gas reduction goals and periodically review targets.	COG, Local Governments, Utilities		X											
22	Provide progress reports for use by COG in developing annual regional progress report on work plan implementation.	Local Governments	X				X				X				
23	Prepare annual progress report on meeting the 2012 goal and associated work plan targets.	COG		X				X				X			
24															
25	**Other Activities**														
26	Prepare regional Green Jobs Analysis (building on an analysis prepared in 2009 by the District of Columbia).	COG							X						
27															
28	**Mid-Term Reduction Targets**														
29	**2020 Goal: Reduce Greenhouse Gas Emissions 20% below 2005 Levels**														
30	Adopt plan to meet 2020 Goal.	COG												X	Yes

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	Recommendations Performance Measures [a]														
31	**II. Energy**														
32															
33	**A. Energy Efficiency**														
34															
35	**Green Building Policy**														
36	100% of jurisdictions adopt and implement COG Green Building Policy (e.g., 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. Adopted by COG Board in November, 2007).	Local Governments, IGBG, USGBC					X								Yes
37	Propose Green Building Policy Recommendations for schools and residential buildings.	IGBG, Local Governments						X							
38	Evaluate and develop recommendations for enhancements to building codes for energy efficiency.	IGBG, EAC, Local Governments							X						
39	Evaluate and develop green affordable housing policy and program recommendations.	IGBG, COG Regional Affordable Housing Partnership, Local Governments							X						
40	Evaluate and propose approach to implementing LEED-ND.	IGBG, MDPC, Local Governments				X									
41															
42	**Municipal Energy Conservation**														
43	100% of jurisdictions reduce energy use by 10% below business-as-usual by 2012 (return to 2005 levels).	Local Governments											X		Yes
44	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
45	50% of jurisdictions use energy performance contracting in at least one building retrofit project.	Local Governments, ESCOs										X			Yes
46	3 regional pilots implemented for LEED-EB Operations and Maintenance.	Local Governments, Private Sector											X		Yes
47															
48	**Building Benchmarking**														
49	80% of jurisdictions benchmark energy performance in all government buildings.	Local Governments										X			
50	60% of jurisdictions disclose energy performance in all government buildings.	Local Governments										X			
51	50% of jurisdictions have commercial building energy usage benchmarking requirements.	Local Governments												X	
52															
53	**Energy Challenge Programs**														
54	35% of jurisdictions develop energy challenge/pledge programs (community, citizens) and/or encourage energy leaders programs.	Local Governments, Private Sector					X								Yes
55	35% of jurisdictions develop green business challenges (businesses, employees).	Local Governments, Private Sector					X								Yes

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56	**Financing and Supporting Energy Efficiency Investments**														
57	Standardize training and certification of energy auditors and home and building energy retrofit and conservation contractors, facilitating reciprocity across the region.	State Energy Offices, Weatherization Programs, Community Colleges. Building Performance Institute, RESNET				X									
58	Prepare a matrix of financing options and recommendations for innovative financing programs for energy efficiency for single and/or multifamily homes.	COG, Local Governments			X										
59	Evaluate potential for the Greater Washington Board of Trade "Carbon Cut" program to serve as regional carbon offset program and support funding of energy efficiency investments, renewable energy, and tree canopy enhancement projects.	COG, Local Governments, Greater Washington Board of Trade			X										Yes
60	Prepare report on opportunities to remove barriers to enable utilities to invest in energy conservation.	COG, State and Local Government, Utilities		X											
61	One jurisdiction establishes home energy loan program or other innovative municipal financing program for building retrofits.	Local Governments		X											Yes
62	35% of jurisdictions develop and implement Home Energy Loan Program.	Local Governments, COG, Maryland Clean Energy Center, State Energy Offices, Private Sector									X				Yes
63	30% of jurisdictions, in cooperation with their state energy offices, implement incentive programs to encourage purchase of new energy efficient applicances.	State or Local Governments, Utilities							X						Yes
64	30% of jurisdictions partner with utilities to implement smart grid technology.	State or Local Governments, Utilities							X						Yes
65															
66	**Building Retrofits**														
67	10,000 residential units retrofitted annually to achieve a 5-10 percent energy saving.	Community		X				X				X			Yes
68	500-1000 residential units retrofitted annually to achieve a 10-30 percent energy saving.	Community		X				X				X			Yes
69	250 commercial buildings retrofitted annually to achieve a 5-10 percent energy savings.	Community		X				X				X			Yes
70	100 commercial buildings retrofitted annually to achieve a 10-30 percent energy savings.	Community		X				X				X			Yes
71	Establish partnerships and processes to track home energy retrofits and smart grid implementation.	COG, State and Local Government, Utilities		X				X				X			
72															
73	**Green Purchasing Policies**														
74	60% of jurisdictions adopt green purchasing policies.	Local Governments, COG						X							Yes
75	50% of jurisdictions participate in a regional/subregional cooperative green purchasing program.	Local Governments, COG									X				Yes

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76	**B. Renewable Energy**														
77															
78	**Renewable Energy Purchases**														
79	100% of jurisdictions purchase or consume 10 percent renewable energy.	Local Governments, Power Purchase Groups, COG, Utilities, Green Power Providers									X				Yes
80	50% of jurisdictions, in collaboration with state energy offices, assist or provide incentives for consumer purchase of renewable energy (e.g., Montgomery County Clean Energy Rewards Program).	Local Governments, State Energy Offices									X				
81	25% of consumers purchase a portion of their electricity from renewable energy.	Consumers, Utilities, Green Power Providers									X				Yes
82	50% of consumers purchase a portion of their electricity from renewable energy.	Consumers, Utilities, Green Power Providers											X		Yes
83															
84	**Renewable and Cleaner Energy System Installations**														
85	Develop a regional inventory of renewable and cleaner energy capacity and production, including solar, geothermal, district heating/cooling, wind, and biofuels	Local Governments, COG, Utilities			X				X				X		
86	75% of local governments deploy renewable energy technology.	Local Governments, Green Power Companies						X							Yes
87	Implement one regional pilot project promoting a renewable energy park.	Federal, State, and Local Government, Private Sector										X			Yes
88	1000 residential, commercial, or government buildings have renewable energy systems installed.	Federal, State, and Local Government, Private Sector			X										Yes
89	5000 residential, commercial, or government buildings have renewable energy systems installed.	Federal, State, and Local Government, Private Sector							X						Yes
90	10000 residential, commercial, or government buildings have renewable energy systems installed.	Federal, State, and Local Government, Private Sector												X	Yes
91															
92	**Financing and Supporting Renewable and Cleaner Energy**														
93	Develop a matrix of options for financing renewable and cleaner energy projects.	COG, Local Governments, Board of Trade		X											
94	All state and local jurisdictions remove barriers to implementing renewable and cleaner energy by the private sector, e.g., solar panels.	Federal, State, and Local Government												X	
95															
96	**C. Other Sectors**														
97	Increase diversion rate (percent of waste diverted from landfills/incinerators) from 30% to 40%.	Local Governments, Residents, Businesses										X			Yes
98	100% of wastewater facilities identify best practices to reduce methane and biosolids from wastewater treatment and evaluate feasibility through cost/benefit analysis of potential actions.	Wastewater Utilities, Water Resources Technical Committee									X				

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99	**III. Transportation and Land Use**														
100															
101	**A. TPB Work Program Activities**														
102															
103	**Prepare Greenhouse Gas Emission Inventories**														
104	Prepare regional transportation greenhouse gas inventories and forecasts for all milestone years.	TPB	✓												
105															
106	**Evaluate Greenhouse Gas Emission Reduction Measures**														
107	Perform cost-effectiveness and cost-benefit analyses of transportation and land use greenhouse gas emission reduction measures (e.g., fuel efficiency, alternative fuels, travel efficiency including land use).	TPB, CEEPC	X												
108															
109	**Identify Emission Reduction Strategies**														
110	Identify cost effective strategies for implementation.	TPB, CEEPC		X											
111															
112	**Conduct Metropolitan Planning Process**														
113	Conduct continued regional metropolitan planning process that includes consideration of greenhouse gas emissions; continue ongoing activities and incorporate MPO planning requirements from pending federal climate change and transportation legislation once enacted.	TPB		X											
114															
115	**B. Local and Regional Strategies**														
116															
117	**Green Fleet Policy**														
118	COG adopts green fleet policy that includes accelerated implementation of federal CAFE Standards/GHG emission standards for local government fleets.	COG						X							
119	30% of jurisdictions implement the COG green fleet policy.	Local Governments								X					Yes
120	50% of jurisdictions implement the COG green fleet policy.	Local Governments												X	Yes
121	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
122															
123	**VMT/Capita Reduction Programs**														
124	100% of jurisdictions implement programs to meet the Greater Washington 2050 target to reduce VMT per capita.	State and Local Governments, Private Sector									X				Yes
125	60-70% of jurisdictions implement parking policies that reduce VMT.	Local Governments										X			Yes
126	60% of jurisdictions adopt best practices for traffic engineering improvements and road management to reduce greenhouse gases.	Local Governments, DOTs							X						Yes

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127	**Promote Use of Transit and Multimodal Options**														
128	100% of transit agencies promote the increased use of existing transit capacity.	Transit Agencies						X							Yes
129	80% of jurisdictions implement programs to expand commuter options (telework, car sharing, bicycle/pedestrian, financial incentives).	Local Governments					X								Yes
130	100% of jurisdictions develop plans to meet the Greater Washington 2050 target to increase the rate of construction of bike and pedestrian facilities included in the Transportation Planning Board's plan.	State and Local Governments					X								Yes
131	100% of jurisdictions implement programs to meet the Greater Washington 2050 target to increase the share of walk, bike, and transit trips.	State and Local Governments, Private Sector						X							Yes
132	100% of jurisdictions implement programs to meet the Greater Washington 2050 target of ensuring that all Regional Activity Centers will have transit accessibility (bus or rail).	State and Local Governments, Transit Agencies, Private Sector											X		Yes
133	100% of jurisdictions develop plans to meet the Greater Washington 2050 target to direct transportation investments that link Regional Activity Centers.	State and Local Governments, Transit Agencies, Private Sector									X				Yes
134															
135	**Increase Tree Canopy**														
136	75% of local governments prepare plans to increase tree canopy.	COG, Local Governments, USFS, State Forestry Offices, Private Landowners						X							Yes
137	Prepare regional plan to increase tree canopy.	COG, Local Governments, USFS, State Forestry Offices, Private Landowners									X				Yes
138	Develop plans to meet the Greater Washington 2050 target to maintain more than 450,000 acres of agriculture land in farms.	State and Local Governments, MDPC										X			Yes
139	100% of jurisdictions develop plans to meet the Greater Washington 2050 target to identify, conserve, and enhance a network of protected open spaces, parks, and green infrastructure.	State and Local Government, National Park Service, Private Landowners							X						Yes
140															
141	**Land Use and Comprehensive Planning**														
142	80% of jurisdictions promote transit-oriented development/Concentrate future growth in Regional Activity Centers.	Local Governments, Planning Directors, Metropolitan Development Policy Committee						X							Yes
143	100% of jurisdictions 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				X	Yes
144	Develop methodologies to assist local governments consider greenhouse gas emission impacts of land use and transportation decisions in local comprehensive planning and project reviews.	COG, EPA						X							Yes
145	50% of jurisdictions integrate considerations of greenhouse gas emission impacts of land use and transportation decisions into comprehensive planning and project reviews.	Local Governments									X				Yes
146															
147	**Reduce Idling**														
148	100% of jurisdictions have idling regulations and enforce them, as reflected through review of citations and education/outreach.	Local Governments		X											Yes
149															
150	**Other Activities**														
151	Develop local and regional plans to increase food production and distribution in the region.	COG, Local Governments, Private Sector				X									

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152	**IV. Adaptation**														
153	Research climate change and adaptation strategies, including lessons learned from other regions and regional adaptation options.	COG, Universities, Private Sector, State, Local, and Federal Government		X											
154	Hold adaptation workshops (topics to address: sector-specific, results of research findings and recommendation, potential regional adaptation strategies).	COG, Universities, Private Sector, State, Local, and Federal Government		X			X		X		X				
155	Evaluate complete impact (e.g., environmental, financial, other) of climate change on one or more sectors (such as water, wastewater, air, energy, public health, public safety).	COG, Universities, Private Sector, State, Local, and Federal Government				X									
156	Develop draft regional adaptation plan.	COG, Universities, Private Sector, State, Local, and Federal Government										X			
157	**V. Outreach & Education**														
158	**Regional Climate and Energy Public Education Campaign**														
159	Develop partnerships to fund and implement a regional climate and energy public education campaign.	COG, Universities, Local Governments, Utilities, State Energy Offices, Media, Foundations	X												Yes
160	Conduct stakeholder identification and analysis for outreach campaign, implement regional survey to assess awareness.	COG, Universities, Local Governments, Utilities, State Energy Offices, Media, Foundations		X											
161	Develop targeted public education campaign materials, including press packs and social marketing campaign materials.	COG, Universities, Local Governments, Utilities, State Energy Offices, Media, Foundations			X										Yes
162	Implement regional pilot public outreach and education campaign.	COG, Universities, Local Governments, Utilities, State Energy Offices, Media, Foundations					X								Yes
163	Implement regional public outreach and education campaign.	COG, Universities, Local Governments, Utilities, State Energy Offices, Media, Foundations											X		Yes

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Acronyms Used in this document:

CEEPC – COG's Climate, Energy and Environment Policy Committee

COG – Metropolitan Washington Council of Governments

EAC – COG's Energy Advisory Committee (supporting technical committee to CEEPC)

EPA – U.S. Environmental Protection Agency

ESCOs – Energy Service Companies (perform energy audits and retrofits, usually with financial guarantees)

ICLEI – International Association of Local Governments for Sustainability

IGBG – COG's Intergovernmental Green Building Group (supporting technical committee to CEEPC)

LEED – U.S. Green Building Council's green building standard "Leadership in Environmental and Energy Design"

LEED-EB – LEED standard for existing buildings.

LEED-ND – LEED standard for neighborhood development

MATOC – Metropolitan Area Transportation Operations Coordination program (MATOC is a regional program to enhance the availability of real-time transportation information)

MDPC – COG's Metropolitan Development Policy Committee (policy advisory committee to COG Board of Directors; COG's lead committee for implementation of Greater Washington 2050 report and compact)

MPO – Metropolitan Planning Organization as defined in federal transportation law. The TPB (see below) is the MPO for the National Capital Region.

RESNET – Residential Energy Services Network; formed by the National Association of State Energy Officials and Energy Rated Homes of America to develop a national market for home energy rating systems and energy efficient mortgages.

TPB – National Capital Region Transportation Planning Board (regional transportation metropolitan planning agency housed at COG)

WRI – World Resources Institute