

2010-2012 Regional Climate and Energy Action Workplan		***Final Revisions Adopted May 25, 2011, by COG Climate Energy and Environment Policy Committee***												Emission Impact		
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			X				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				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 economic development plan to include consideration of green jobs assessment.		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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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						√							
39	Evaluate and develop green affordable housing policy and program recommendations.	IGBG, COG Regional Affordable Housing Partnership, Local Governments								X					
40	Promote neighborhood scale green design and smart growth principals.	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, 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 projects implemented for LEED-EB Operations and Maintenance.	Local Governments, Private Sector										X			Yes
47															
48	Building Benchmarking														
49	80% of jurisdictions track and 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 or certifications (businesses, employees).	Local Governments, Private Sector, Greater Washington Board of Trade					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									
57a	Continue to promote training and certification of energy auditors.	State Energy Offices, Weatherization Programs, Community Colleges, Building Performance Institute, RESNET							X					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			√										
58a	Track and advocate actions to overcome federal obstacles to municipal financial programs.	COG, Local Governments							X					X	
60	Prepare report on barriers to invest in energy conservation in three communities (1 in each state) and what utilities can do to assist in removing barriers.	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		√											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, promote or provide incentive programs to encourage purchase of new energy efficient appliances.	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	1,500 residential units retrofitted annually.	Community, State Energy Offices, Utilities				X				X				X	Yes
69	250 commercial buildings retrofitted annually.	Community, State Energy Offices, Utilities				X				X				X	Yes
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 utility consumers purchase a portion of their energy consumption from renewable energy.		Consumers, Utilities, Green Power Providers									X			Yes	
83																
84	Renewable and Cleaner Energy System Installations															
84a	Evaluate the economic and environmental benefits of integrated community energy solutions, including focus on promoting effective use of waste heat and combined heat/power solutions in the region.		COG, Local Governments, Expert Task Force, Consultant					X								
84b	At least two jurisdictions evaluate potential for including integrated community energy solutions in development projects.		Local Governments, NVRC, MCEC, State Governments, Private Sector						X			X				
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% ^b .		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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^(b) Region Forward goals will be tracked and reported every other year by COG Dept of Community Planning

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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	√												
108															
109	Identify Emission Reduction Strategies														
110	Identify cost effective strategies for implementation.	TPB, CEEPC		√											
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, Local Governments								X					
119	30% of jurisdictions have developed and implemented a green fleet policy.	Local Governments								X				Yes	
120	50% of jurisdictions have developed and implemented a 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 Region Forward target to reduce VMT per capita ^(b) .	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, COG							X					Yes	
129	80% of jurisdictions implement programs to expand commuter options (telework, car sharing, bicycle/pedestrian, financial incentives).		Local Governments, COG					X							Yes	
130	100% of jurisdictions develop plans to meet the Region Forward target to increase the rate of construction of bike and pedestrian facilities included in the Transportation Planning Board's plan ^(b) .		State and Local Governments					X							Yes	
131	100% of jurisdictions implement programs to meet the Region Forward target to increase the share of walk, bike, and transit trips ^(b) .		State and Local Governments, Private Sector						X						Yes	
132	100% of jurisdictions implement programs to meet the Region Forward target of ensuring that all Regional Activity Centers will have transit accessibility (bus or rail) ^(b) .		State and Local Governments, Transit Agencies, Private Sector											X	Yes	
133	100% of jurisdictions develop plans to meet the Region Forward target to direct transportation investments that link Regional Activity Centers ^(b) .		State and Local Governments, Transit Agencies, Private Sector									X				
134																
135	Increase Green Infrastructure															
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	
137a	Develop local and regional plans to increase food production and distribution in the region.		COG, Local Governments, Private Sector									X				
138	Develop plans to meet the Region Forward target to maintain more than 450,000 acres of agriculture land in farms ^(b) .		State and Local Governments, MDPC										X		Yes	
139	100% of jurisdictions develop plans to meet the Region Forward target to identify, conserve, and enhance a network of protected open spaces, parks, and green infrastructure ^(b) .		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 Region Forward targets for growth (75% of commercial square feet and 50% of households) occurring in Regional Activity Centers ^(b) .		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								
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	

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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				
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		√											
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			√								Yes		
162	Implement regional pilot public outreach and education campaign.		COG, Universities, Local Governments, Utilities, State Energy Offices, Media, Foundations				√							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