FY 2017 ENVIRONMENTAL RESOURCES WORK PROGRAM AND BUDGET

July 1, 2016 to June 30, 2017













REGIONAL ENVIRONMENTAL RESOURCES MANAGEMENT

Fiscal Year 2017 Work Program and Budget

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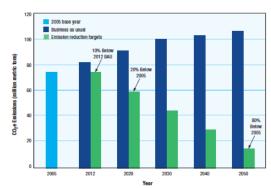
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REGIONAL ENVIRONMENTAL RESOURCES MANAGEMENT

This is the Annual Work Program and Budget document for COG's Regional Environmental Resources Management Programs for Fiscal Year 2017 (FY 2017). The budget is based on the program budget approved by the COG Board in January 2016. It includes information on COG's regional environmental resources programs, committee oversight, budgets and key deliverables. The work program is structured to meet the needs of COG's members to address critical regional environmental resources issues.

The Regional Environmental Fund was established in 1988 as a complement to the Regional Water Fund to support COG's work on regional environmental resources issues. This included energy planning, household hazardous waste, brownfields, indoor air quality, radon control, and recycling and solid waste. The areas of focus have evolved over the years to meet the needs of COG's members. Contributions to the Regional Environmental Fund support COG's environmental resources programs.

The Climate, Energy and Environment Committee (CEEPC) plans and implements measures to meet the greenhouse gas reduction targets adopted by the COG Board and integrated in COG's Region Forward Initiative. COG's regional greenhouse gas reduction targets are 10 percent reduction below business as usual by 2012; 20 percent below 2005 levels by 2020, and 80 percent below 2005 by 2050.



For FY 2017, the Environmental Resources section includes nine program areas, reflecting the most important regional environmental resources issues as defined by the COG Board of Directors and COG's membership:

- 1. Climate and Energy Policy Development;
- 2. Built Environment and Energy Advisory Committee (BEEAC),
- 3. Energy Infrastructure, Efficiency and Renewables;
- 4. Sustainability and Adaptation;
- 5. Public Advisory Committee (ACPAC);
- 6. Vehicle Emission Reductions:
- 7. Member Support/Environmental Resources Work Program Development;
- 8. Regional Solid Waste & Recycling Management;
- Green Infrastructure & Urban Watershed

The programs provide for policy development based on research, technical experts, and best practices. Pilot programs are developed to test technology and strategies and are often funded through a combination of grants and sponsorships. Oversight and direction for the Environmental Resources Work Program is provided by the CEEPC.

FUNDING AND BUDGET

COG's Regional Environmental Resources Programs are primarily funded by the Regional Environment Fund, with supplemental funding provided by allocations from COG member dues. Grants and other funding sources support specific projects and activities.

The information below provides background on these funding sources, notes the levels of funding that were approved for FY 2017 (see Table 1, page 4, and outlines how those funds are proposed to be allocated (see Table 2, page 5).

FUNDING SOURCES

Regional Environmental Fund (REF) - Established in 1988, the REF is a voluntary, COG member fee-for-service contribution that supports COG's regional environmental resources programs. By long-standing practice, a portion of the REF is also used to support COG's green infrastructure and urban watershed programs.

The COG Board of Directors adopted its FY 2017 Work Program and Budget in January, 2016. The REF is allocated among participating jurisdictions by "Population Adjusted for Budget". See the FY 2017 COG Work Program and Budget document for further information on jurisdiction population data. Note: All COG members except the Town of Bladensburg, City of Bowie, Charles County, City of Frederick, Frederick County, City of Manassas, and City of Manassas Park contribute to the Regional Environmental Fund.

COG Membership Fees and Other - The 22 members of COG pay annual dues at a per capita rate approved by the COG Board of Directors. For FY 2016, the per capita rate is \$ \$0.725, with individual jurisdiction's total cost increases capped at 5%. The Board allocates membership fees to COG programs to support match needed for federal and state grants and to supplement support for programs.

Grants or Other – COG solicits grant funding to supplement the Regional Environmental Program and COG funds. The grants support individual programs and amount of funding vary per year based on availability.

FUNDING LEVELS, BUDGETS & ALLOCATIONS

Table 1 below lists the total COG member funding contributions for COG's Regional Environmental Fund (as approved by the COG Board on January 13, 2016). Table 2 indicates the sources of funds used to support the environmental resources programs.

Table 1 - Local Government Contribution to COG's Regional Environmental Fund - FY 2016			
Jurisdiction	Regional Environmental Fund Allocations		
Alexandria, City of	\$19,509		
Arlington County	\$28,615		
College Park, City of	\$3,945		
District of Columbia	\$88,532		
Fairfax County	\$144,794		
Fairfax, City of	\$3,204		
Falls Church, City of	\$1,764		
Gaithersburg, City of	\$8,704		
Greenbelt, City of	\$2,727		
Loudoun County	\$47,509		
Montgomery County	\$117,269		
Prince George's County	\$102,154		
Prince William County	\$56,905		
Rockville, City of	\$8,552		
Takoma Park, City of	\$2,168		
TOTALS	\$636,351		

COG Regional Environmental Resources Management Programs						
Table 2 - Program Revenue ar	d Budget Alloca	tions				
	Revenue Sources					
Program Area	Regional Environment al Fund	COG Member Fees & Funds	Grants or Other	Total Budget		
I. Climate and Energy						
A. Climate Policy Development	\$118,686	\$102,776	-	\$221,462		
B. Built Environment and Energy Advisory Committee	\$89,026	\$77,091	1	\$166,117		
C. Energy Infrastructure, Efficiency & Renewables	\$150,900	\$130,672	\$20,000	\$301,572		
D. Sustainability/Adaptation	\$42,882	\$37,134	-	\$80,016		
E. Air and Climate Public Advisory Committee	\$20,128	\$17,430	-	\$37,558		
F. Vehicle Emission Reductions	-	-	\$70,000a	\$70,000		
G. Management / Member Support	\$24,478	\$21,197	-	\$45,676		
TOTAL	\$446,101	\$386,300	\$90,000	\$922,401		
II. Recycling & Solid Waste M	anagement					
A. Recycling & Solid Waste	\$125,000	-	\$35,000b	\$160,000		
B. I-95 Waste Technical Committee	-	-	\$11,100	\$11,100		
TOTAL	\$125,000		\$46,100	\$171,000		
III. Green Infrastructure						
A. Green Infrastructure	\$45,250	-	-	\$45,250		
B. Urban Watershed	\$20,000	-	-	\$20,000		
TOTAL	\$65,250	-	-	\$65,250		
GRAND TOTAL	\$636,351	\$386,300	\$136,100	\$1,158,751		

^a Includes \$10,000 pass-through for GWRCCC.
^b Sponsorship for GoRecycle Campaign.

ANNUAL WORK PROGRAM AND BUDGET DETAILS

Work Program Areas - Detailed Descriptions					
1. Regional Climate and Energy Policy					
	FUNDING SOURCES				
PROGRAM AREA	Regional Environmental Fund	COG Member Fees & Funds	Grants or Other	Total	
Climate and Energy	\$118,686	\$102,776	-	\$221,462	

Committee Oversight: COG Board of Directors Program Managers: Jeff King, Stephen Walz

Staff Resources: Leah Boggs, Maia Davis, Isabel Ricker, Amanda Campbell

Activity Description

The region is addressing the need to reduce energy waste, develop cleaner sources of energy, improve air quality, improve resilience, and meet the challenge of a changing climate by developing policies and programs to mitigate emissions from energy production and use. Staff provides research and technical expertise to assess and develop measures at the local and regional level to reduce energy use, improve energy efficiency and to promote renewable energy. The Climate and Energy work program will be carried out under the oversight and direction of the Climate, Energy and Environment Policy Committee (CEEPC), supported by the Air and Climate Public Advisory Committee (ACPAC), the Built Environment and Energy Advisory Committee (BEEAC), and other groups as needed. BEEAC will serve as the technical advisory committee to CEEPC and COG staff. ACPAC will advise CEEPC and provide input to the Climate and Energy Action Plan. Some of the Climate Change Report's recommended actions, such as adaptation research, draw on transportation and emergency management staff at COG in addition to COG Department of Environmental Programs (DEP) staff. This work will be coordinated with Region Forward through which COG integrates land use, transportation. housing and environmental planning to develop a more prosperous, accessible, sustainable, and livable region (www.regionforward.org).

Outcomes/Major Projects

Policy and Programs

Identify and recommend state, local, and regional energy and greenhouse policies or programs. Identify and advance COG's energy and climate legislative priorities for the year. Analyze, track and report on climate change and energy-related legislation, regulations, and programs at the federal, state and local levels.

Implementation

Identify and advance strategies to meet the region's greenhouse gas reduction goals. Develop and begin implementation of the 2017-2020 Climate and Energy Action Plan. Support and implement recommendations of the Multi-Sector Working Group. Advance initiatives in the regional Gold Book and Resource Guide, including continued focus on the energy-water nexus.

Track and provide input on development of state energy, climate, and clean power plans.

Complete regional progress tracking and reporting through an annual survey of local governments and an annual Progress Report on the Climate & Energy Action Plan. Complete a regional GHG Inventory for 2015 and local updates.

Manage the Climate and Energy Leadership Awards Program.

Provide regional climate and energy training initiatives.

Take advantage of services and grants as a White House Climate Action Champion. Support the Climate, Energy and Environment Policy Committee (CEEPC): Six meetings annually.

Work Program Areas – Detailed Descriptions						
2. Built Environment and Energy Advisor	2. Built Environment and Energy Advisory Committee					
	FUNDING SOURCES					
PROGRAM AREA	Regional Environmental Fund	COG Member Fees & Funds	Grants or Other	Total		
Climate and Energy	\$89,026	\$77,091	-	\$166,117		

Committee Oversight: CEEPC

Program Manager: Leah Boggs, Jeff King

Staff Resources: Isabel Ricker, Maia Davis, Amanda Campbell

Activity Description

Any solution to reduce energy use and emissions in the region must address the built environment, which consumes a majority of the energy supplied in the metropolitan Washington region. The Built Environment and Energy Advisory Committee (BEEAC) will serve as the technical committee to CEEPC, provide resources and direct services to members to assist in their efforts to meet work plan goals; provide a forum for networking and sharing best practices; and serve as the Regional Emergency Support Function #12 (Energy).

Outcomes/Major Projects

Policy

Identify and recommend state, local, and regional energy policies or programs.

Implementation

Support the Built Environment and Energy Advisory Committee (BEEAC): Eleven meetings annually (including conference calls, webinars or tours).

Review and advance policies and initiatives to CEEPC.

Assist in preparation and recommendation of the Regional Environmental Program annual work program and budget.

Facilitate the annual member survey.

Provide information for Annual Progress Report.

Update the Climate and Energy Action Plan Resource Guide.

Conduct annual utility data collection and analysis.

Support the Regional Emergency Support Function 12 (RESF-12): Subcommittee meetings as required.

Review and update RESF-12 Plans, consolidating the multiple regional response plans, to address emergency and cascading impact response.

Provide for local program capacity building; networking, workshops, and training.

Work Program Areas – Detailed Descriptions					
3. Energy Infrastructure, Efficiency, and Renewables					
	FUNDING SOURCES				
PROGRAM AREA	Regional Environmental Fund	COG Member Fees & Funds	Grants or Other	Total	
Climate and Energy	\$150,900	\$130,672	\$20,000	\$301,572	

Committee Oversight: CEEPC, BEEAC, EV Workgroup, RESF-12

Program Manager: Jeff King

Staff Resources: Maia Davis, Isabel Ricker, Leah Boggs, Amanda Campbell

Activity Description

COG climate and energy program staff will explore opportunities to reduce demand for energy, develop clean, alternative energy sources, and improve energy reliability in both the government and private sectors. COG will partner with industry and other stakeholders to explore new technologies and pilot them in the metropolitan Washington region.

Outcomes/Major Projects

Policy

Identify, recommend, and assist in implementation of state, local, and regional energy infrastructure policies or programs, including alternative fuel vehicles, distributed energy, energy efficiency, and renewable energy.

Implementation

Implement energy efficiency & renewable energy.

- Building Efficiency, Financing & Green Bank Support.
- Outdoor Lighting Retrofits.
- Cooperative Solar Procurement, Residential & Commercial Solarize; Community Solar.
- Solar Market Pathways project.
- Green Cooperative Purchasing.

Provide analysis tools for development of distributed energy systems.

- Microgrid DER-CAM modeling & systems analysis.
- Geothermal Potential Analysis.

Alternate Fuel Vehicle Infrastructure.

Fleet Grants, Clean Cities & EV Workgroup.

Support energy planning for critical infrastructure, energy security and energy assurance planning; Participate in energy emergency and infrastructure protection workgroup meetings. Support capacity building for member staff.

Match funds for grant-supported initiatives.

Conduct workshops, webinars and meetings.

Work Program Areas – Detailed Descriptions					
4. Sustainability and Adaptation					
	FUNDING SOUR	CES			
PROGRAM AREA	Regional Environmental Fund	COG Member Fees & Funds	Grants or Other	Total	
Climate and Energy	\$42,882	\$37,134	-	\$80,016	

Committee Oversight: CEEPC and BEEAC

Program Manager: Maia Davis, Amanda Campbell

Staff Resources: Jeff King, Steve Bieber, Tanya Spano, Lana Sindler

Activity Description

Many communities recognize the need to prepare for climate changes and address increasing temperatures, sea level rise, and extreme weather events. COG's climate adaptation and resiliency planning program builds capacity and capability to prepare for climate change by working with regional partners to collect and share climate information and best practices, and connect members with resources and trainings. This work requires coordination with COG water program, transportation, land use, health, and emergency management staff.

Outcomes/Major Projects

Policy

Monitor and share climate science, impact studies, and regional resiliency efforts Promote economic development opportunities related to sustainability and resiliency Integrate adaptation considerations in infrastructure planning

Implementation

Support regional planning and coordination.

- Vulnerability Assessments.
- Adaptation Studies & Plans.
- Partnerships (NCPC, NASA, Corps of Engineers, GSA).

Address economic impact of climate change.

Provide for capacity building & technical assistance.

- Networking, Workshops & Training.
- Build upon District of Columbia Climate Change Adaption Plan & NVRC Climate Atlas.

Assist with incorporating adaptation into infrastructure development.

Match funds for grant-supported initiatives.

Work Program Areas – Detailed Descriptions						
5. Air and Climate Public Advisory Committee						
	FUNDING SOUR	CES				
PROGRAM AREA	Regional COG Environmental Fund Cog Member Grants or Other Funds Cog					
Climate and Energy	\$20,128	\$17,430	-	\$37,558		
Air Quality	-	-	\$41,045	\$41,045		
Subtotal	\$20,128	\$17,430	\$41,045	\$78,603		

Committee Oversight: CEEPC, MWAOC

Program Manager: Maia Davis, Amanda Campbell

Staff Resources: Steve Walz, Jeff King, Jen Desimone, Sunil Kumar, Isabel Ricker

Activity Description

The Air and Climate Public Advisory Committee (ACPAC) advises on air quality, climate and energy issues to COG policy committees. ACPAC advises the Metropolitan Washington Air Quality Committee (MWAQC) on air quality planning and the Climate, Energy and Environment Policy Committee (CEEPC) on climate and energy issues and initiatives.

The Committee initiates discussions of relevant issues, provides input to CEEPC's Climate and Energy Action Plan and advises MWAQC by reviewing regional air quality progress, air quality State Implementation Plans (SIPS) and issues.

Outcomes/Major Projects

Policy

Assess new energy efficiency and renewable energy initiatives in the metropolitan Washington area.

Support energy efficiency and renewable energy initiatives of CEEPC to achieve the regional GHG reduction goal (2020).

Review regional air quality progress and programs, SIPs, and emerging air quality issues.

Implementation

Provide advice on the Action Plan to achieve regional GHG reduction goal (2020).

Manage the Climate and Energy Leadership Awards.

Prepare an Environmental Justice Toolkit.

Ten to eleven monthly ACPAC meetings.

Work Program Areas – Detailed Descriptions					
6. Vehicle Emission Reductions					
	FUNDING SOUR	CES			
PROGRAM AREA	Regional Environmental Fund	COG Member Fees & Funds	Grants or Other	Total	
Climate and Energy	-	-	\$70,000	\$70,000	

Committee Oversight: MWAQC and CEEPC
Program Managers: Jeff King and Leah Boggs

Staff Resources: Sunil Kumar, Isabel Ricker, Leah Boggs

Activity Description

The region is addressing the need to reduce emissions and improve efficiency by implementing projects to convert legacy diesel engines operating in on- and non-road fleet equipment in the region. Reduced emissions and improved efficiency are achieved engine upgrades, engine replacement, exhaust controls, and vehicle replacements. Funding sources include the U.S. Environmental Protection Agency's Region III state and competitive programs under the Diesel Emission Reduction Act (DERA).

Outcomes/Major Projects

Policy and Program

Reduced emissions and improved efficiency in on- and non-road equipment operating in the region.

Implementation

Prepare grant proposals to repower non-road equipment.

Support cooperative procurement effort for alternate fueled vehicles.

Provide fleet analysis and conversions.

Support infrastructure planning.

Work Program Areas – Detailed Descriptions					
7. COG Board and Member Support/Work Program Development					
	FUNDING SOURCES				
PROGRAM AREA	Regional Environmental Fund	COG Member Fees & Funds	Grants or Other	Total	
Climate and Energy	\$24,478	\$21,197	-	\$45,676	

Committee Oversight: COG Board of Directors Program Manager: Steve Walz, Jeff King

Staff Resources: Maia Davis, Leah Boggs, Isabel Ricker, Amanda Campbell,

John Snarr, Tanya Spano, Steve Bieber

Activity Description

This task enables COG to fulfill its role as a member service organization by responding to member requests for information on regional programs and policies and serving as a clearinghouse for environmental information, including those program areas not covered elsewhere in the budget. It provides COG staff with the ability to respond to special requests for technical assistance or other support from the COG Board and COG members. Typical examples include reporting on the latest regulatory requirements under federal environmental laws or proposed funding strategies at the federal and state level. It also provides funds for staff support in developing environmental resources presentations to the COG Board and other COG committees and COG members.

Outcomes/Major Projects

Respond to requests.

Provide briefings and presentations to COG Board and others (4-6 per year).

Support the COG Board subcommittee on environmental committee structure.

Develop and implement the FY 2017-18 Work Program and Budget.

Prepare and the inaugural COG Corporate Sustainability Report.

Submit grant proposals (Ongoing).

Complete performance appraisals.

Work Program Areas – Detailed Descriptions					
8. Regional Solid Waste/Recycling Management					
FUNDING SOURCES					
PROGRAM AREA	Regional COG Member Grants or Fund Funds Grants or Other				
Regional Solid Waste and Recycling	\$125,000	-	\$35,000	\$160,000	
I-95 Waste Technical Committee		-	\$11,100	\$11,100	
Subtotal	\$125,000	-	\$46,100	\$171,100	

Committee Oversight: CEEPC, Recycling Committee, Solid Waste Managers Group Program Manager: John Snarr

Activity Description

COG provides a forum to address regional waste management issues, including information-sharing about facilities, equipment and techniques to manage the waste stream, and coordination of regional initiatives. The Recycling Committee hosts six sessions per year, each on a specific topic. COG staff serves as co-chair in the Organics Task Force, which examines how to expand the region's food waste composting infrastructure. Staff will organize two meetings of the Solid Waste Managers Group and will complete a homeland security project to better plan and coordinate for emergency debris disposal. COG will staff the I-95 Landfill Committee's quarterly meetings of facility partner governments. COG will produce the regional Go Recycle promotional campaign as a way to reinforce the recycling message and to promote recycling to residents and businesses. Member local governments have asked for COG assistance in coordinating a regional celebration of America Recycles Day (ARD). This national celebration of recycling is an effective way to provide the ongoing consumer education necessary to maintain programs at their current level of efficiency. COG will serve as the coordinating agency for this year's ARD for the region.

Outcomes/Major Projects

Produce regional Go Recycle promotional campaign for members and sponsors. Solicit member input to determine new campaign direction and outreach techniques.

Six Recycling Committee technical sessions (bi-monthly).

Staff two Solid Waste Managers technical sessions.

Staff four I-95 Landfill Committee meetings.

Create additional content for the Go Recycle Web Site to enhance its mission as a regional information resource.

Coordinate America Recycles Day activities as state organizer and conduct regional contest for prizes.

Update Construction and Demolition Debris Recycling Guide online.

Follow up on recommendations from the Debris Planning Gap Analysis.

Participate in regional Organics Task Force to expand organic composting infrastructure.

Work Program Areas – Detailed Descriptions					
9. Green Infrastructure & Urban Watershed					
	FUNDING SOURCES				
PROGRAM AREA	Regional Environmental Fund	COG Member Fees & Funds	Grants or Other	Total	
	\$45,250	-	-	\$45,250	

Committee Oversight: CEEPC, CBPC
Program Manager: Brian LeCouteur

Activity Description

COG provides support for regional programs and projects related to green infrastructure. These programs support regional agriculture through the Regional Agriculture Workgroup and the National Capital Farms website to help preserve regional farms and open space, support regional forestry through the Community Forestry Network, and help build connections with regional markets and sustainable fares in the Washington foodshed. Additionally, this Work Program Area supports urban watershed initiatives that work in conjunction with the green infrastructure initiatives to improve water quality in the region's rivers, streams and lakes.

Outcomes/Major Projects

Support urban forestry

- Community Forestry Network
- Regional Urban Forest Canopy Analysis and Report
- Reforestation
- Urban Forestry Grants

Support the regions agriculture

- Washington Regional Agricultural Workgroup
- National Capital Farms.org
- What Our Region Grows
- Food Value Chain Coordinator