

FY 2017 Regional Environmental Resources Work Program

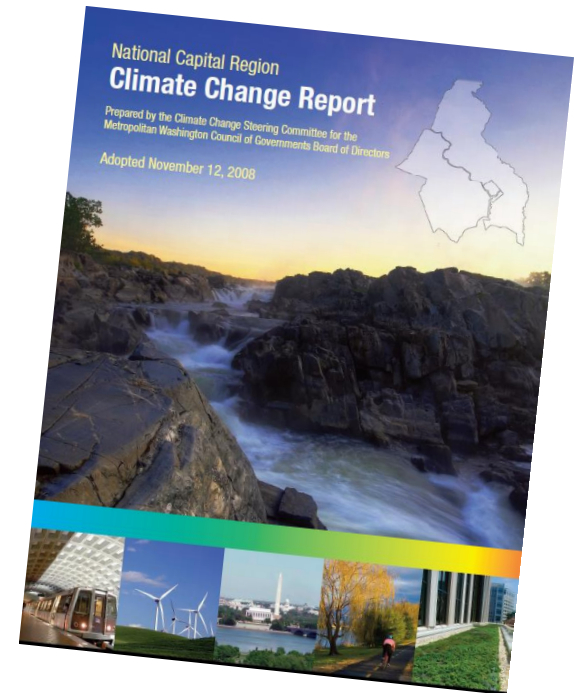
For BEEAC Input

Steve Walz
Director of Environmental Programs

Built Environment – Energy Advisory Committee
March 17, 2016

Background

- Regional Environmental Fund
 - Established in 1998 to Consolidate Regional Energy Programs
 - Follows the Regional Water Fund Model
- 2008 National Capital Region Climate Change Report
- Energy Planning, Climate Action, Recycling and Solid Waste Management, Green Infrastructure



2013-16 Climate & Energy Action Plan

- Goals
 - Reduce GHG Emissions & Energy Use
 - Increase Renewable Energy Production
 - Support Green Fleets
 - Increase Resiliency and Sustainability
 - Improve Public Understanding of Climate Change and Behavior Change

May 22, 2013

Climate Energy and Environment Policy Committee
FINAL 2013-2016 ACTION PLAN

** Indicates a goal that is new in the 2016 Action Plan (i.e. not included in the 2012 Action Plan)
**Status indicates the percent total that has implemented or is in progress on each action. Most results are based on the CCG annual climate and energy surveys.*

REGIONAL GREENHOUSE GAS REDUCTION
Goal: To reduce the region's greenhouse gas emissions to 20% below 2005 levels by 2020.

Implementation Actions:

Greenhouse Gas (GHG) Inventories and Plans	Status**
1 100% of jurisdictions complete GHG inventories for government operations.	77%
2 100% of jurisdictions complete community-wide GHG inventories.	68%
3 100% of jurisdictions adopt GHG emission reduction plans for government operations.	68%
4 75% of jurisdictions adopt plans to reduce GHG emissions community-wide.	55%

BUILT ENVIRONMENT AND INFRASTRUCTURE
Goal: To reduce non-transportation energy consumption, which accounts for two thirds of the region's greenhouse gas emissions, by 20% below 2005 levels by 2020.

Implementation Actions:

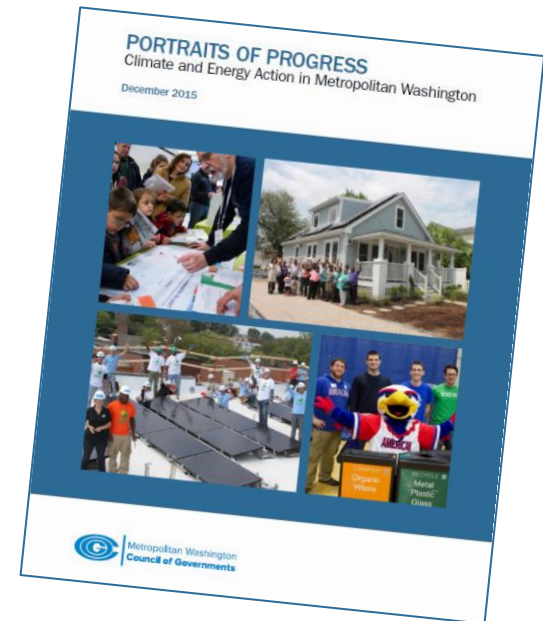
Energy Efficiency	Status**
5 100% of jurisdictions track and/or benchmark energy performance in all government buildings.	95%
6* 75% of jurisdictions participate in a regional EPA Portfolio Manager Master Account Sharing.	TBD in use Portfolio Manager
7* 75% of jurisdictions disclose energy performance of all government buildings.	TBD in use Portfolio Manager
8* 75% of jurisdictions prepare an energy plan for local government facilities.	50%
10* 50% of jurisdictions participate in US DOE Better Buildings Challenge which includes pledging to reduce 20% energy use in building(s).	68%
11* 50% of jurisdictions develop a policy or ordinance to increase the energy efficiency of outdoor lighting in appropriate areas such as streets, parking lots, parks and/or signage.	9%
12* At least 6 jurisdictions implement integrated community energy planning initiatives, including active consideration of deploying combined heat and power, district energy, and/or microgrid systems.	5
13* 2% of households region-wide participate in Home Performance with Energy Star Program (HPwES) (home energy assessments and retrofits).	TBD (20% remaining households)

1



FY 16 Accomplishments

- White House Climate Action Champion
- Technical Assistance & Grants
 - Microgrid
 - Geothermal
 - Greening the Fleet
 - Cooperative Purchase AFV
 - Potomac River Boat Diesel Retrofit
 - Food Value Chain Coordinator
 - Urban Forestry
- Portraits of Progress Report
- Climate & Energy Awards – 2nd annual



FY 16 Accomplishments

- NCR Energy Assurance Planning Workshops/Exercise
 - Emergency Response Plans Analysis
 - Electric Grid Failure and Cascading Effects
 - Energy-Water Nexus Planning
- Renewable Energy
 - Rooftop Solar Challenge
 - Solarize & Community Solar Campaigns
 - Dominion Virginia Power Solar Potential Study
 - Bulk Solar Procurement
- Multi-Sector GHG Workgroup
 - “On-the-Books” and New Scenario Analysis
 - Action Plan Recommendations
- Clean Tech Leadership Forum

FY 17 Program Areas

- A. Climate & Energy Policy Development
- B. Built Environment Energy Advisory Committee
- C. Energy Infrastructure, Efficiency & Renewables
- D. Sustainability & Adaptation
- E. Air & Climate Public Advisory Committee (ACPAC)
- F. Vehicle Emission Reduction
- G. Recycling & Solid Waste
- H. Green Infrastructure
- I. Member Support & Program Development

Climate & Energy Policy Development

- Energy & Greenhouse Gas Mitigation Policies & Programs
 - Climate & Energy Action Plan
 - Climate Action Champion
 - Climate & Energy Leadership Awards
 - Gold Book – Energy & Air Quality Nexus
 - Regional Climate & Energy Training
 - Greenhouse Gas Inventories – 2015 Regional & Local
 - Progress Reporting
- COG energy & climate legislative priorities
- Economic Development
 - Technology Transfer & Federal Laboratory Consortium
 - Green Incubators & Business Accelerators

Built Environment - Energy Advisory Committee

- Technical Advisory Committee to CEEPC
- Support Local Solutions to Energy & Climate Challenges
- Regional Emergency Support Function 12 – Energy Emergencies
 - Consolidate Multiple Regional Response Plans
 - Plan for Emergency & Cascading Impact Response
- Utility and Energy Data Collection & Analysis
- Local Program Capacity Building
 - Networking, Workshops & Training
 - Climate & Energy Action Plan Resource Guide

Energy Infrastructure, Efficiency & Renewables

- Implementation of Energy Efficiency & Renewable Energy
 - Cooperative Solar Procurement, Residential & Commercial Solarize; Community Solar
 - Building Efficiency, PACE Workgroup & Green Bank Support
 - Outdoor Lighting Retrofits
 - Green Cooperative Purchasing
- Distributed energy systems
 - Microgrid DER-CAM Modeling & Systems Analysis
- Smart Cities
- Alternate fuel vehicle infrastructure
 - Fleet Grants, Clean Cities & EV Workgroup

Sustainability & Adaptation

- Regional Planning Coordination
 - Vulnerability Assessments
 - Adaptation Studies & Plans
 - Partnerships (NCPC, NASA, Corps of Engineers, GSA)
- Climate & Economic Development
- Capacity Building & Technical Assistance
 - Networking, Workshops & Training

Air and Climate Public Advisory Committee

- Advisor to CEEPC and Metropolitan Washington Air Quality Committee (MWAQC)
- Monthly Meetings
- Initiatives
 - Climate and Energy Awards
 - Environmental Justice Toolkit

Vehicle Emission Grant Programs

- Federal and State Grants
 - Cooperative Procurement of AFV (DOE/NARC)
 - Diesel Retrofits (EPA/States)
 - Greening the Fleet (DOEE)

Regional Solid Waste Management & Recycling

- Recycling Committee
- Solid Waste Managers Workgroup
 - Demolition Debris Management
- Organics Task Force
- I-95 Landfill Committee
- Go Recycle Campaign
- America's Recycle Day

Green Infrastructure

- Urban Forestry
 - Community Forestry Network
 - Regional Urban Forest Canopy Analysis and Report
 - Reforestation
 - Urban Forestry Grants
- Agriculture
 - Washington Regional Agricultural Workgroup
 - National Capital Farms.org
 - What Our Region Grows
 - Food Value Chain Coordinator

Member Support - Program Development

- COG Corporate Sustainability Report
- Respond to Member Requests
- Program Management
- Staff Capacity Building

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