

Portraits of Progress

2015 Climate and Energy Progress Report



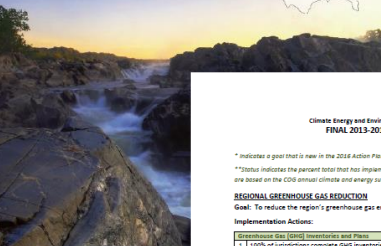
Climate, Energy and
Environment Policy Committee
October 27, 2015

COG Climate Program

National Capital Region Climate Change Report

Prepared by the Climate Change Steering Committee for the
Metropolitan Washington Council of Governments Board of Directors

Adopted November 12, 2008



May 22, 2013

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

* Indicates a goal that is new in the 2013 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 COG annual climate and energy survey.

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	75%
2. 100% of jurisdictions complete community-wide GHG inventories	62%
3. 100% of jurisdictions adopt GHG emission reduction plans for government operations	65%
4. 10% of jurisdictions adopt plans to reduce GHG emissions community-wide	55%

BUILT ENVIRONMENT AND INFRASTRUCTURE

Goal: To reduce non-transportation energy consumption, which 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	100%
6. 75% of jurisdictions participate in a regional LEED Certified MA program	75%
7. 75% of jurisdictions disclose energy performance of all government	75%
8. 75% of jurisdictions prepare an energy plan for local government	75%
9. 75% of jurisdictions perform walk-through energy audits of all facilities	75%
10. 50% of jurisdictions participate in CO2-Red Smart Buildings program to reduce 20% energy use in buildings	50%
11. 50% of jurisdictions develop a policy or ordinance to increase outdoor lighting in appropriate areas such as streets, parking lots, etc.	50%
12. At least 5 jurisdictions implement integrated community areas including active consideration of deploying combined heat and water recovery systems	50%
13. 1% of households region-wide participate in Home Performance Checks (HPEC) (home energy assessments and retrofits)	1%

PORTRAITS OF PROGRESS Climate and Energy Progress Report

November 2015



Plan, Action, Progress

- 2008 Regional Climate Change Report
- 2013-2016 Climate and Energy Action Plan, 2nd edition
- Annual Climate and Energy Progress Reports

Regional Collaboration



METROPOLITAN WASHINGTON
COUNCIL OF GOVERNMENTS

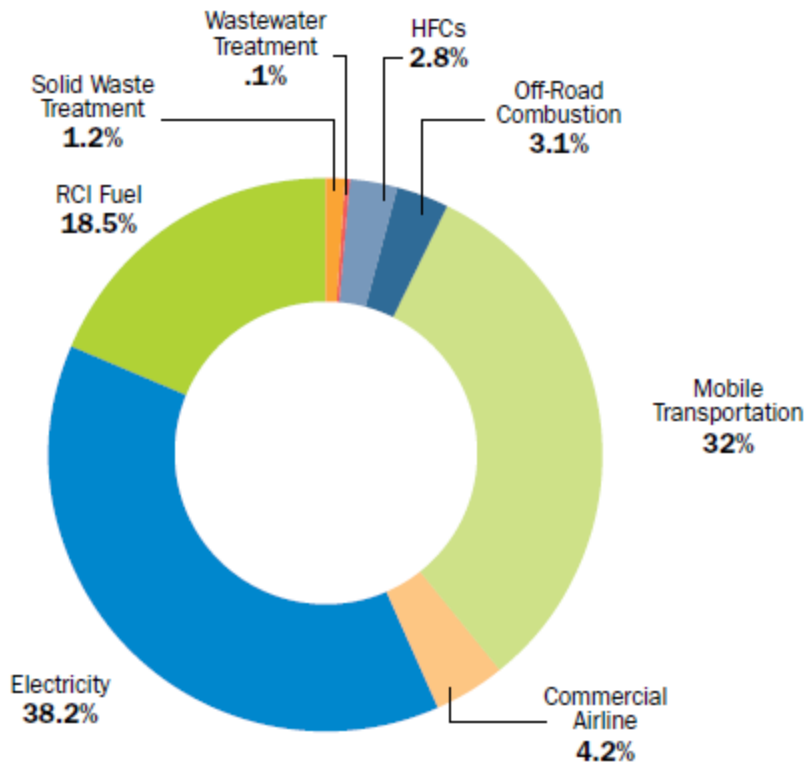
Every month, over 1,000 officials and subject matter experts come to COG to learn about the latest trends and data, share best practices, and develop solutions to the region's major challenges.



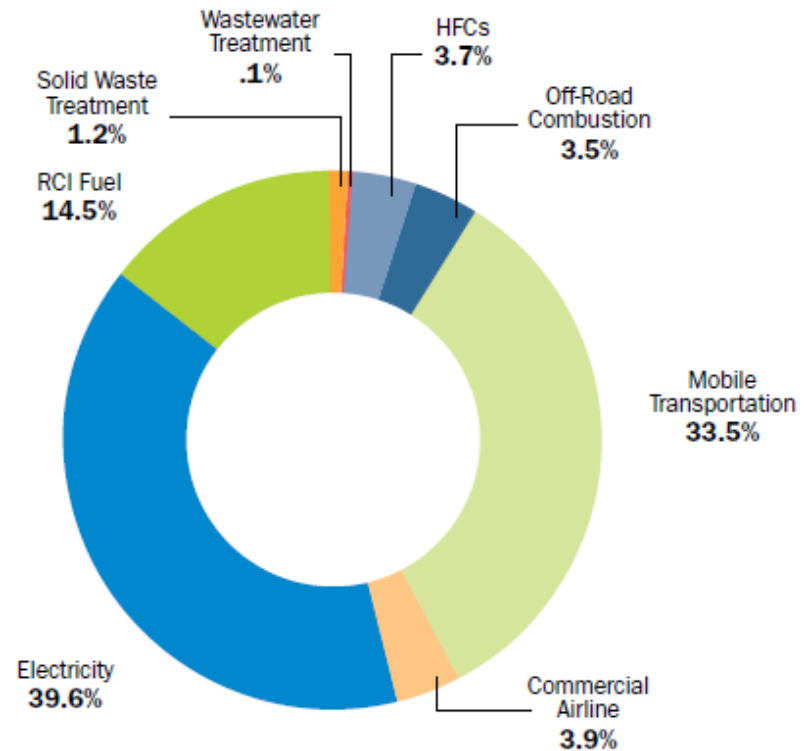
GHG Emissions

Region has achieved the 2012 GHG emission reduction goal

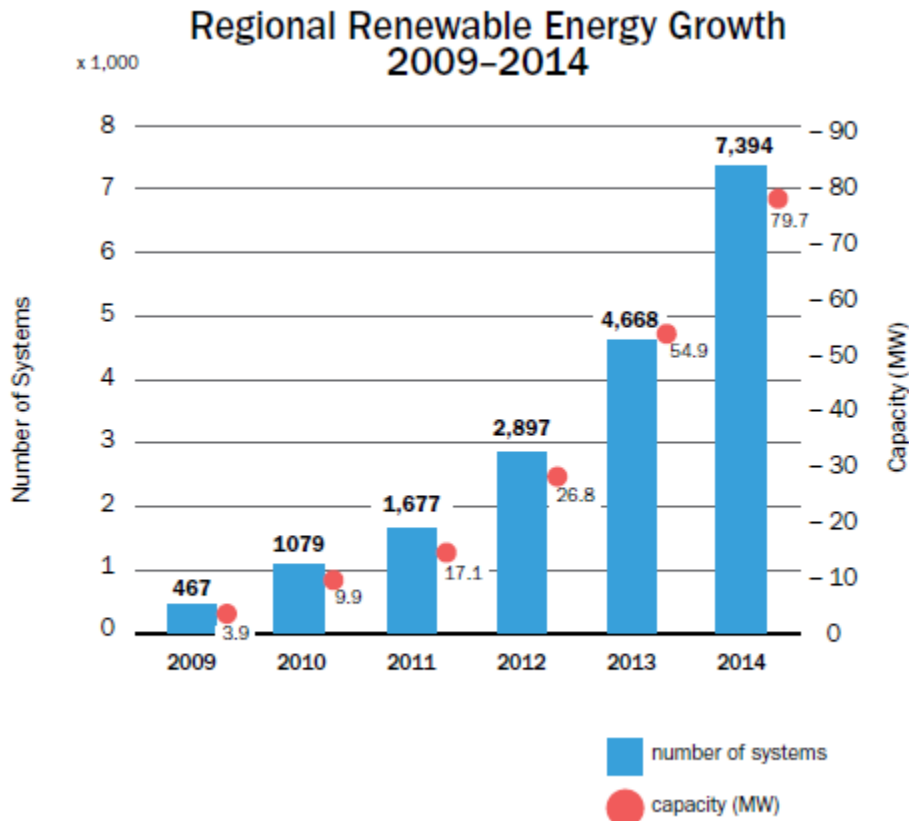
2005 Regional GHG Emissions by Activity



2012 Regional GHG Emissions by Activity



Renewable Energy



Region has surpassed CEEPC's 5,000 renewable energy systems goal

- There are more than 7,300 grid-connected solar PV and wind systems in the region.

Net Zero Home



Net Zero School



Net Zero Campus

Alice Ferguson Foundation



Photo by Alice Ferguson Foundation

Net Zero Base

Fort Detrick



Photo by US Army

Zero Energy & Waste

Metro



Zero Energy & Waste

Sustainable DC



Photo by District Department of Energy and Environment

Zero Waste Goal

American University



Photo by American University

Zero Emission Vehicles



Photo by Transportation Climate Initiative

Clean Tech



Photo by Bethesda Green

Conclusions

Achievements

- Met 2012 GHG Emission Reduction Goal
- Surpassed 5,000 renewable energy systems goal
- Washington DC and the MSA recognized by ENERGY STAR for highest number of energy efficiency buildings in 2015
- Metropolitan Washington ranked in top five regions for clean tech activities and #1 for LEED by the US Clean Tech Leadership Index

Opportunities for Advancement

- Only 0.65% of energy generation in the region is renewable, CEEPC's goal is 10%.
- Net zero water goals and projects?
- US Clean Tech Leadership Index identifies areas for further advancement as:
 - Electric vehicles ownership and infrastructure
 - Clean tech investment, innovation and workforce
- Incorporate MSWG recommendations into new Action Plan
- Other ideas?

Portraits of Progress

2015 Climate & Energy Progress Report

For more information please contact:
Maia Davis, COG Department of Environmental Programs
202-962-3227
mdavis@mwcog.org

www.mwcog.org
www.twitter.com/regionforward
www.facebook.com/mwcog

