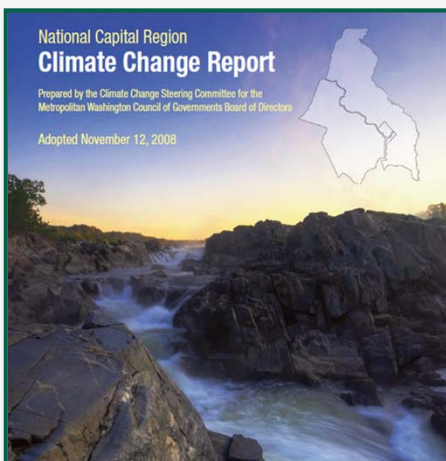


Climate and Energy Regional Action and Progress

MWAQC - July 31, 2014



Climate Goals and Plans



NCR CLIMATE CHANGE REPORT (2008)

Set regional goals to reduce greenhouse gas (GHG) emissions to 10% below business as usual levels by 2012, 20% below 2005 levels by 2020 & 80% below 2005 levels by 2050.

REGION FORWARD (2010)

COG's vision and mission. Draws its climate and energy related goals from the 2008 Climate Change Report.

CLIMATE & ENERGY ACTION PLAN (2013)

Short-term actions to help move the region toward achieving long-term GHG reduction goals.

ACTION PLAN RESOURCE GUIDE (2013)

Descriptions, examples and resources to assist local jurisdictions with implementation of each action in the Action Plan.



Resource Guide Example



DESCRIPTION

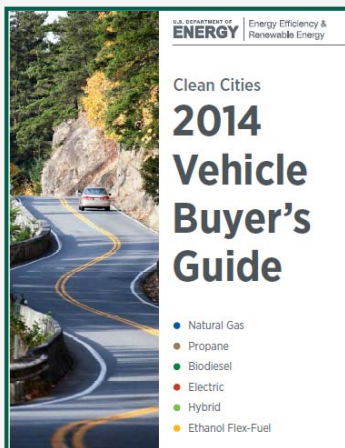
The local government has adopted a green fleet policy that gives preference to alternative fuel and/or advanced fuel vehicles. Alternative and advanced fuel vehicles include biodiesel, electricity (includes hybrids), ethanol, hydrogen, natural gas, and propane. Green fleet policies can also include goals for alternative and/or advanced fuel vehicles or goals for fleet emission reductions; statements about purchasing the most energy efficient vehicle that will meet the operational needs; and maintaining and operating vehicles for optimal energy efficiency and emission reduction (engine tuning, tire inflation, efficient driving practices)

EXAMPLES

- The City Manassas has a goal of 10 percent of fleet to be clean alternative or clean fuel vehicles.
- In 2009, Montgomery County won second place for the [Government Green Fleet Award](#) from the 100 Best Fleets Program.



Resource Guide Example



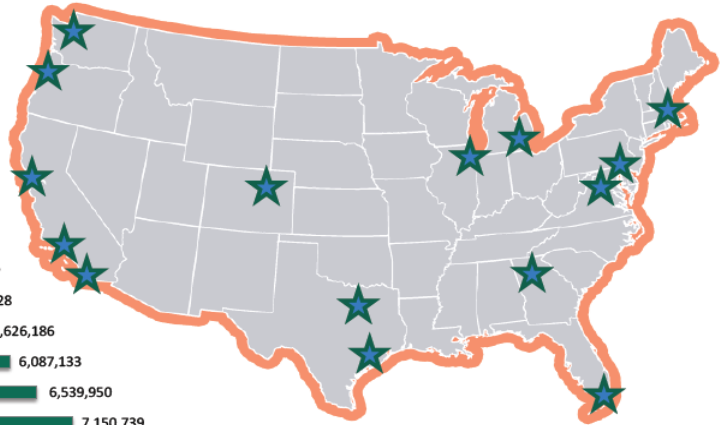
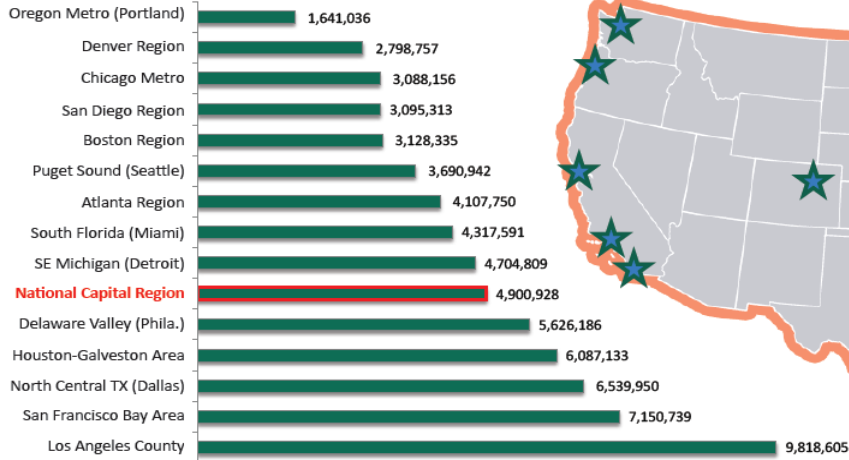
RESOURCES

- ICLEI [Green Your Fleet Brochure](#)
- [FuelEconomy.gov](#) provides a tool to research and compare the fuel economy and greenhouse gas ratings and smog ratings of vehicles on the market, information on advanced vehicles and fuel, cost calculators and more.
- Clean Cities [2014 Vehicle Buyer's Guide](#)
- [U.S. DOE Alternative Fuels Data Center](#) provides resources on fuels and vehicles, conserving fuel, station location, and laws and incentives. Use the [Petroleum Reduction Planning Tool](#) to create a comprehensive plan for your fleet.
- The 100 Best Fleets [Government Green Fleet Award](#) is open to all Federal, State, and Local Government Fleets in North America. It is a comprehensive set of criteria specifically tailored around the challenges and requirements of the government fleet manager.
- The [American Council for an Energy-Efficient Economy \(ACEEE\) Green Book](#) provides green ratings for every vehicle on the market.
- Metropolitan Washington [Eco Driving](#) Information and Resources



Progress - Regional Comparison

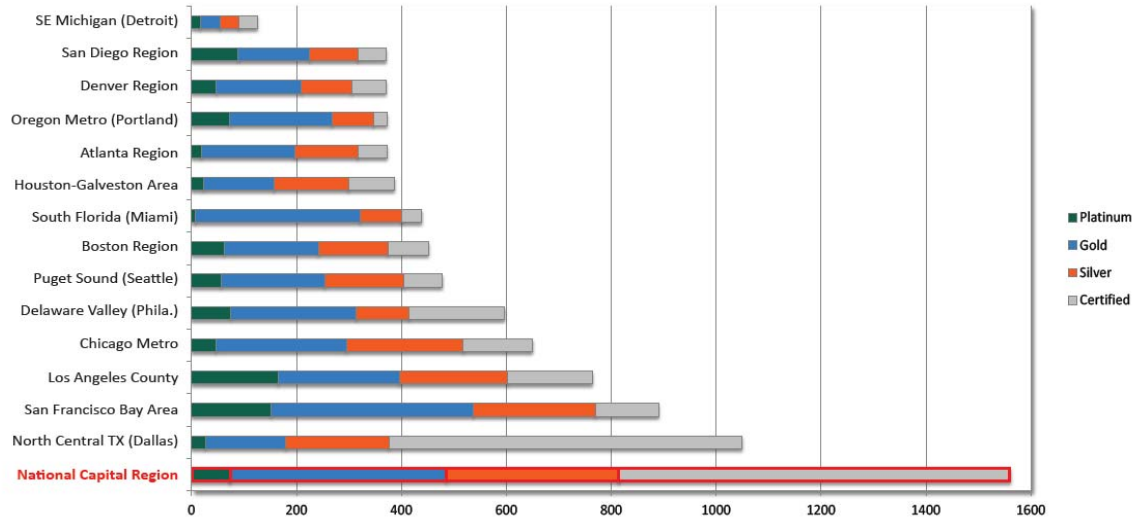
2010 Census Population



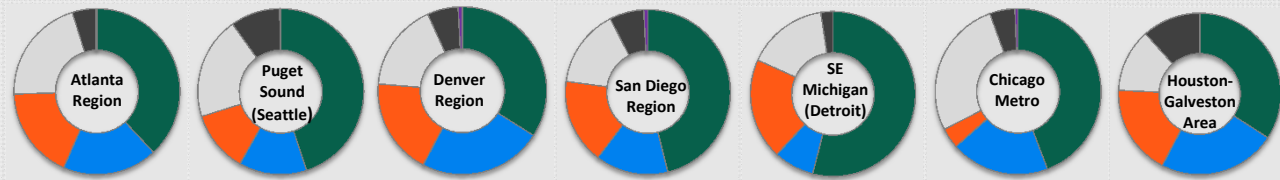
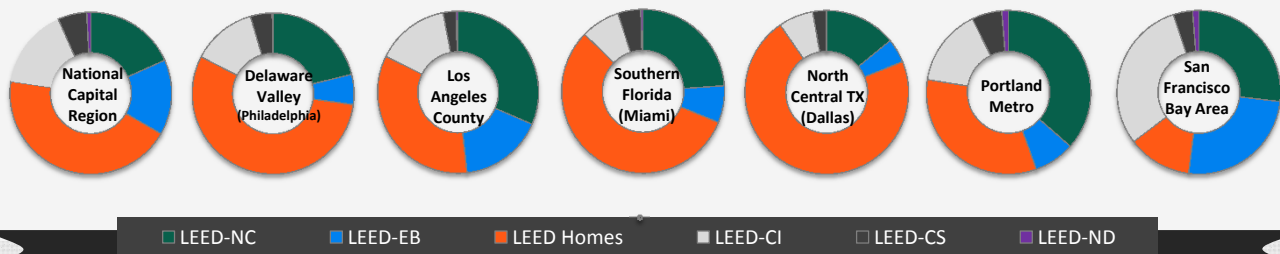
How Does COG Stack Up?



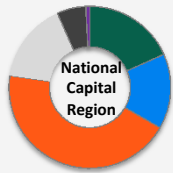
LEED Certification Levels



LEED Rating System

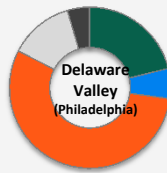


Green Home Certifications



Main LEED for Homes Developments:

- Mosaic Townhomes in Fairfax
- Chancellors Row in DC
- Capital Quarter in DC
- Old Town Commons in Alexandria
- James Bland in Alexandria



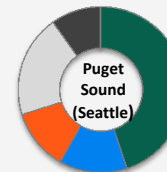
Main LEED for Homes Developments:

- Kendal Retirement Community
- Affordable Housing Redevelopments:
- West Philadelphia Real Estate
 - Sheridan Street Housing
 - Norris Apartments
 - Temple N. 16 St and Temple II



[EarthCraft](#) Certification is more prevalent than LEED for Homes

- EarthCraft was established in 1999 with Greater Atlanta Home Builder Ass.
- > 25,000 certified homes
- Hundreds of EarthCraft builders, home renovators, real estate professionals



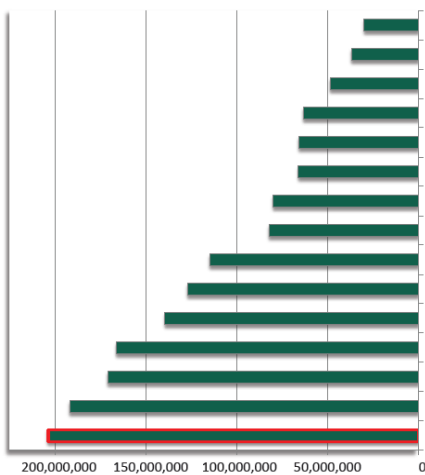
[Built Green](#) Certified Homes is more prevalent than LEED for Homes

- Built Green was established in 1999 with the Master Builders Association of King and Snohomish Counties
- > 15,000 certified homes
- 300 Built Green builders and remodelers

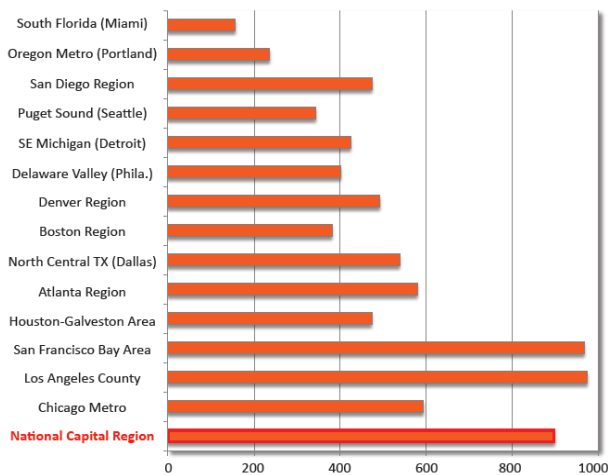


ENERGY STAR Rated Buildings

Square Feet of Total ENERGY STAR Rated Space



Number of ENERGY STAR Rated Buildings



EPA Green Power Partners



Region	Number of Partners	Green Power (kWh)	Top Green Power Partners
South Florida (Miami)	3	17,490,486	Intercontinental Hotel
Southern Michigan (Detroit)	5	18,187,280	General Dynamics Land Systems Central Office
San Diego Region	6	50,342,606	City of San Diego
Atlanta Region	8	121,267,914	Coca-Cola
Houston-Galveston Area	10	653,099,719	City of Houston
Los Angeles County	15	74,328,741	Los Angeles World Airports
Puget Sound (Seattle)	19	2,090,093,464	Microsoft
Denver Region	25	228,268,191	White Waves Food Company
North Central Texas (Dallas)	30	652,943,953	City of Dallas, Dallas-Fort Worth Airport
Oregon Metro (Portland)	34	191,016,670	Port of Portland, City of Portland
Delaware Valley (Philadelphia)	38	862,964,426	TD Bank, University of Pennsylvania
Chicago Metro	42	1,186,652,530	Metro Pier and Exposition Auth, Chicago Public Schools
San Francisco Bay Area	80	5,491,057,765	Intel, Google, Apple, Cisco
National Capital Region	103	3,389,656,517	Federal Agencies, District of Columbia



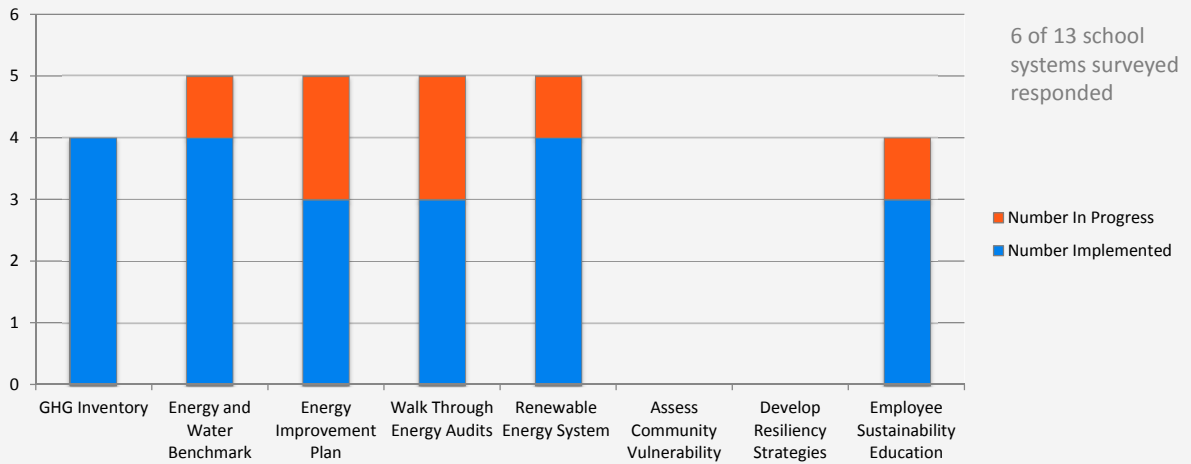
Local Jurisdiction Actions

Local Government	Energy Improvement Plan - Govt Operations	Walk-Through Energy Audits	EPA Green Power Partner	EPA Green Power Community	Complete Streets Policy	Assess Community Vulnerability	Develop Community Resiliency Strategies	Promote EERE Incentives	Employee Sustainability Education
District of Columbia	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	
Suburban Maryland									
Charles County	✓✓	-	NR	NR	✓	-	-	✓	
Frederick County	NR	NR	NR	NR	-	NR	NR	NR	
City of Frederick	-	-	-	-	✓	-	-	✓	
Montgomery County	✓	✓✓	✓✓	NR	NR	✓	✓✓	✓	
City of Gaithersburg	-	✓✓	✓✓	-	N/A	-	-	✓✓	
City of Rockville	✓✓	✓✓	✓✓	✓✓	✓✓	-	-	✓✓	
City of Takoma Park	✓	✓✓	-	-	-	-	-	✓	
Prince George's County	✓✓	✓✓	N/A	N/A	✓✓	-	✓✓	✓✓	
City of Bowie	✓✓	-	-	-	-	✓✓	✓	✓	
City of College Park	✓	✓✓	✓✓	✓✓	-	-	-	✓	
City of Greenbelt	✓	✓	✓✓	✓	N/A	N/A	N/A	✓	
Town of Bladensburg	NR	NR	NR	NR	NR	-	-	N/A	
Northern Virginia									
Arlington County	✓	✓✓	✓✓	-	✓✓	✓	✓	✓✓	
Fairfax County	✓✓	✓✓	✓✓ (fast track)	-	✓✓	✓✓	✓	✓✓	
Loudoun County	-	✓	-	-	-	-	-	✓✓	
Prince William County	✓	✓	-	-	N/A	-	-	✓	
City of Alexandria	✓✓	✓✓	✓✓	-	✓✓	✓	-	✓✓	
City of Fairfax	✓	✓✓	-	-	-	-	-	✓	
City of Falls Church	NR	NR	✓✓	✓✓	✓	NR	NR	NR	
City of Manassas	✓	✓✓	-	-	✓✓	-	-	✓	
City of Manassas Park	-	✓	NR	NR	-	-	-	-	
% Implemented	27%	55%	45%	18%	32%	9%	0%	32%	
% In Progress	41%	18%	5%	5%	14%	32%	32%	41%	
Implemented + In Progress	68%	73%	50%	23%	45%	41%	32%	73%	
CEEPIC Action Plan Goal	75%	75%	75%	25%	75%	40%	40%	50%	

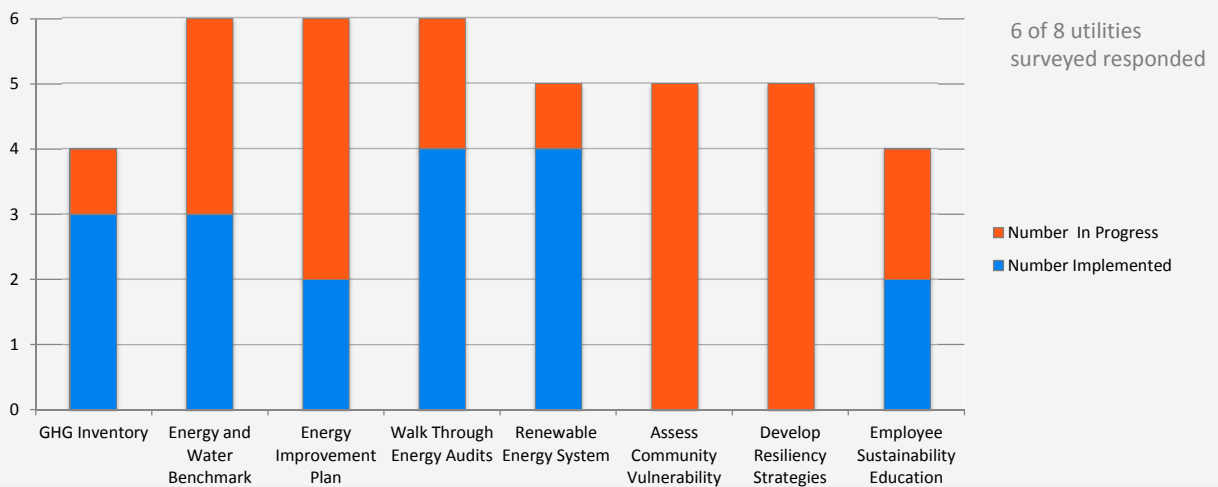
✓✓ = Implemented ✓ = In Progress - = Not Started N/A = Not Applicable NR = No Response



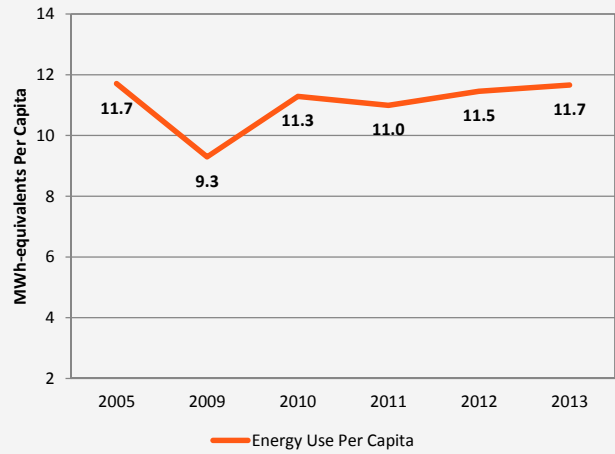
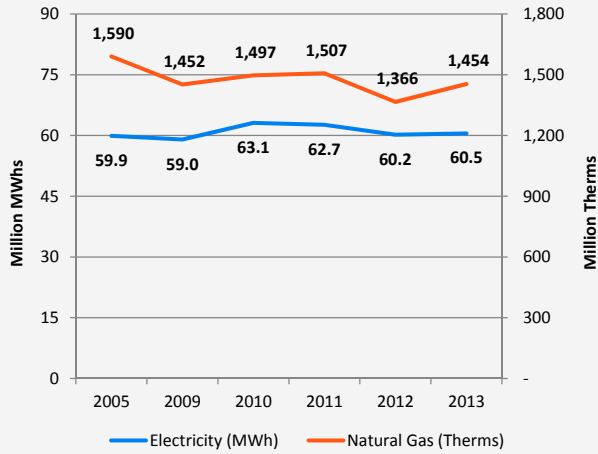
School System Actions



Water Utility Actions

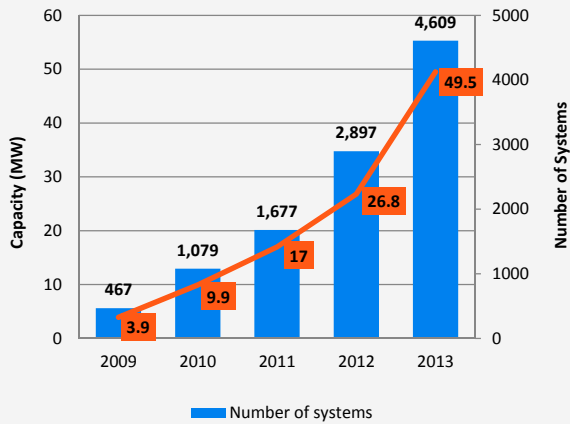


Regional Energy Use Trends

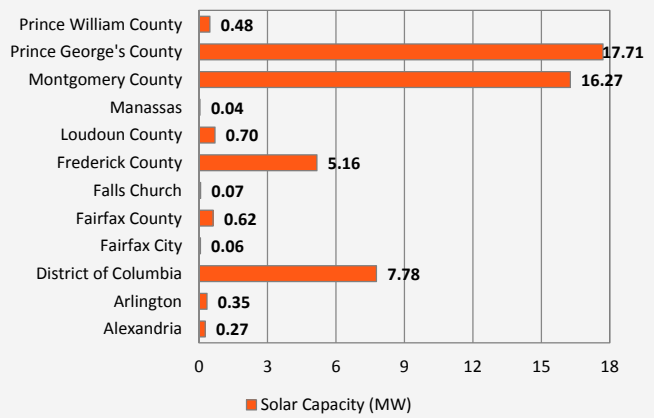


Renewable Energy Trends

Grid-Connected Renewables



Local Renewable Deployment



Thank you
mdavis@mwcog.org

