



CLIMATE AND ENERGY PROGRESS & PLANNING

METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS
MAIA DAVIS
AIR AND CLIMATE PUBLIC ADVISORY COMMITTEE MEETING
OCTOBER 21, 2013

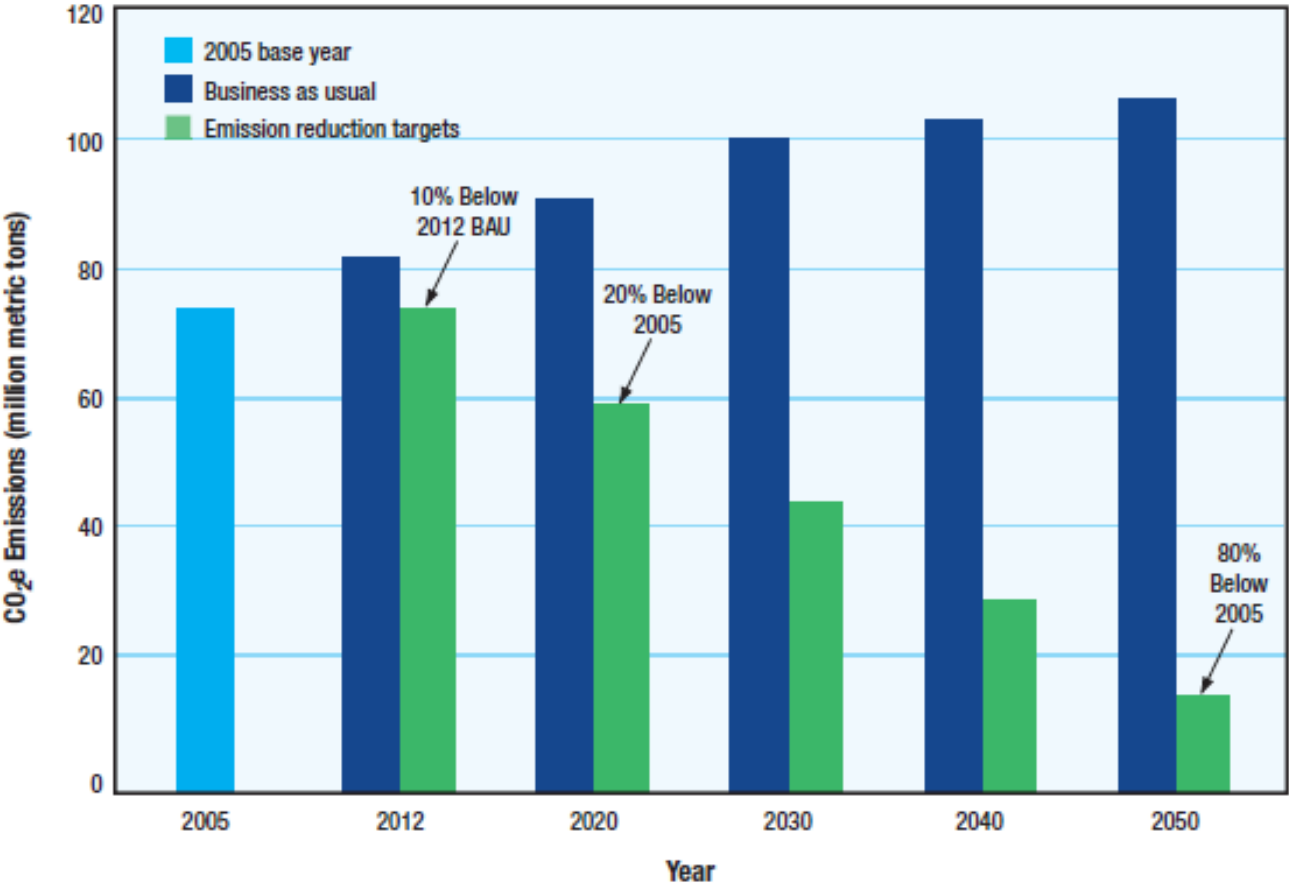
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ACPAC COMMENTS MAY 2013

- Identify how often should greenhouse gas (GHG) inventories be completed
- Assist standardizing GHG inventory methodology and/or develop regional inventory
- Identify the highest priority Climate and Energy Action Plan items
- For progress on actions, consider identifying both # and %, show progress made over the last few years, and weight progress
- Highlight local govt promising/best practices, particularly “smaller” jurisdictions
- Identify a single lead contact for each jurisdiction, not just for collecting data but to open up communication to offer info/resources
- Host webinars
- Develop fact sheets
- Implement an awards program for local jurisdictions

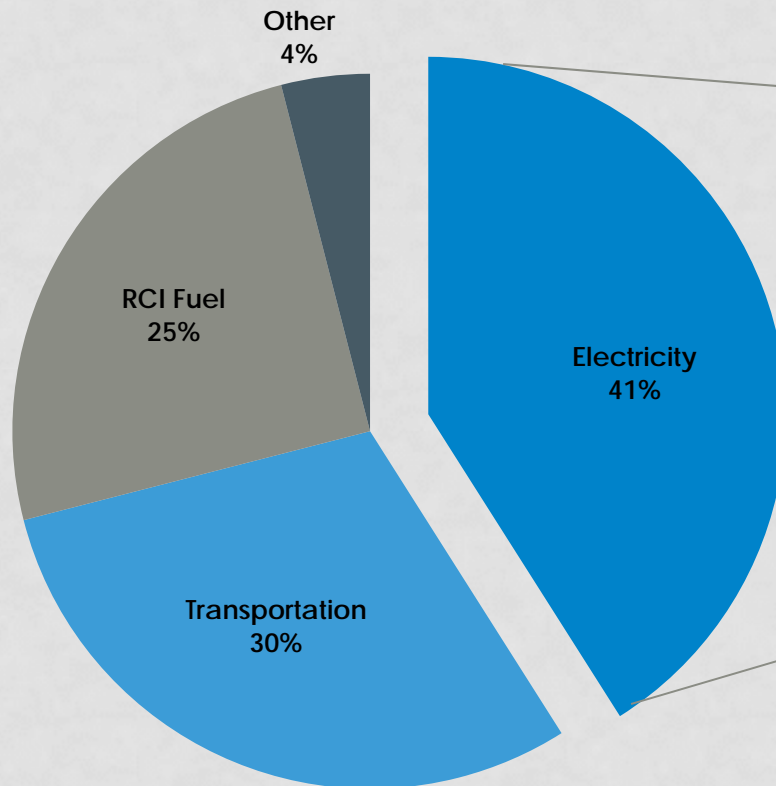


REGIONAL GREENHOUSE GAS EMISSION REDUCTION GOALS

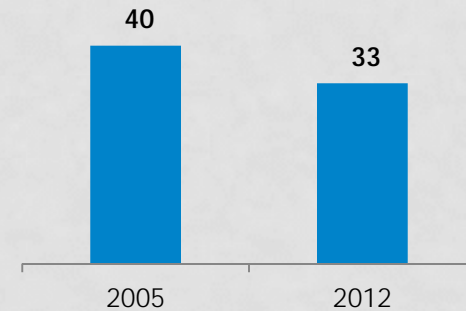


PROGRESS REPORT STATS

2005 GHG Emissions by Sector ¹



Electricity Emissions Reductions 2005-2012 (MMT CO₂) ²



RCI = Residential, Commercial and Industrial natural gas, home heating oil, non-road diesel, and aviation fuel



¹ Source: [2008 National Capital Region Climate Change Report](#)

² Source: COG Annual Energy Utility Surveys

PROGRESS REPORT STATS

Energy Efficiency Renewable Energy

- USGBC named DC, MD and VA in the **top 10 states** for LEED in 2012³
- Over **700** LEED certified buildings from 2002-2012⁴
- Over **800** ENERGY STAR buildings from 2000-2012⁵
- **600%** increase in renewable energy capacity from 2009-2012⁶



Green Roof at Walter Reed Community Center
Photo Credit: Arlington County

³ Source: [Top 10 States for LEED in 2012](#)

⁴ Source: [Public LEED Project Directory](#)

⁵ Source: [Energy Star Certified Buildings and Plants Database](#)

⁶ Source: COG Annual Energy Utility Surveys



PROGRESS REPORT STATS

Electric Vehicles

- **500** estimated electric vehicles are owned in the region⁷
- **15,000 to 30,000** electric vehicles are projected to be in the region by 2015⁸
- **133** publically accessible EV charging stations are located in the region⁹



Electric Vehicle Charging
Photo Credit: Melissa Hinch-Ownsby



⁷ Source: # of registered EVs according to data provided by VA, MD and DC Motor Vehicle Departments as of June 2012

⁸ Source: Plug-in Electric Vehicle Estimator, Electric Power Research Institute, Palo Alto, CA: 2012. Projection is based on past hybrid sales, production estimates, and other studies

⁹ Source: COG [Electric Vehicles in the Metropolitan Washington Region Report](#). Analysis as of April 2012

PROGRESS REPORT STATS

Climate Resiliency

- 2012 brought record heat waves, the Derecho thunderstorm, and Superstorm Sandy.
- Moving forward, the Chesapeake Bay Area is virtually certain to have higher sea levels and will very likely see higher temperatures and precipitation concentrated in heavier events¹⁰



Derecho Storm Damage in Falls Church, VA
Photo Credit: ClintJCL



¹⁰ Source: [Dr. Raymond G. Najjar's Cleaning Up the Bay in a Warmer World presentation at COG's 2012 Climate Impact Symposium](#)

PROGRESS REPORT STATS

Outreach

- **52%** of the region's population lives in a jurisdiction with a community energy challenge¹¹
- **74%** of the region's population lives in a jurisdiction promoting EERE incentives¹²
- **73%** of businesses in the region are located in a jurisdiction that has in place or is in progress on a green business challenge¹³



Energy experts set up blower door test to search for air leaks
Photo Credit: Fairfax County



¹¹ Source: COG Annual Local Government Climate and Energy Surveys

¹² Source: COG Annual Local Government Climate and Energy Surveys and US Census 2012 Population Estimate

¹³ Source: COG Annual Local Government Climate and Energy Surveys and US Census 2007 Survey of Business Owners

PROGRESS REPORT – LOCAL GOVT ACTIONS SUMMARY¹⁴

Local Government	2012 Census Population Estimate ¹	Govt GHG Inventory	Community GHG Inventory	Govt GHG Reduction Plan	Community GHG Reduction Plan	Govt Energy/ Track Benchmark	Energy Efficient Street Light Program	Energy Finance Program	Green Building Program	Renewable Energy on Govt Property	Green Fleet Policy	Alternative Fuel Infrastructure
District of Columbia	632,323	✓✓	✓✓	✓	✓	✓✓	✓	✓	✓✓	✓✓	✓	✓
Suburban Maryland												
Charles County	150,592	-	-	-	-	✓✓	-	-	✓	✓✓	-	-
Frederick County	173,200	✓✓	✓✓	✓✓	✓	✓✓	✓✓	-	✓	✓	✓	-
City of Frederick ²	66,382	-	-	-	-	-	✓	✓✓	-	NR	-	-
Montgomery County	861,466	✓✓	✓✓	✓✓	✓✓	✓✓	✓	✓	✓✓	✓✓	✓✓	✓✓
City of Gaithersburg ²	62,794	✓	-	-	-	✓	✓	✓✓	✓✓	✓✓	-	✓
City of Rockville ²	63,244	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓	✓	✓
City of Takoma Park ²	17,205	✓✓	✓✓	✓✓	✓✓	✓	✓	-	N/A	✓✓	✓✓	-
Prince George's County	760,932	✓✓	✓✓	✓✓	✓✓	✓	✓	✓	✓✓	✓✓	✓	-
City of Bowie ²	56,129	✓✓	✓✓	✓	✓	✓	N/A	✓✓	✓✓	✓✓	✓✓	-
City of College Park ²	31,208	✓✓	✓	-	-	✓	✓✓	N/A	N/A	N/A	N/A	N/A
City of Greenbelt ²	23,541	✓✓	✓	✓	-	✓✓	N/A	N/A	✓	✓✓	✓✓	✓
Town of Bladensburg ²	9,328	-	-	-	-	✓	-	N/A	-	✓✓	✓	NR
Northern Virginia												
Arlington County	221,045	✓✓	✓✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
Fairfax County	1,118,602	✓✓	✓✓	✓✓	✓	✓	✓	-	✓✓	✓✓	✓✓	✓
Loudoun County	336,898	✓✓	✓✓	✓✓	✓✓	✓✓	-	-	✓✓	✓✓	-	✓✓
Prince William County	430,289	✓✓	-	✓	-	✓✓	-	-	-	✓✓	✓	✓
City of Alexandria	146,294	✓✓	✓✓	✓✓	✓✓	✓✓	✓	✓✓	✓✓	✓✓	✓	-
City of Fairfax	23,461	✓	✓	✓	-	✓	✓	✓	✓✓	-	✓	-
City of Falls Church	13,229	✓✓	✓✓	✓	✓	✓	✓	-	-	✓✓	✓✓	✓
City of Manassas	40,605	-	-	-	-	✓	✓	N/A	-	✓✓	✓✓	✓✓
City of Manassas Park	15,798	-	-	-	-	✓	-	-	-	-	-	-
Percent Jurisdictions Implemented		68%	55%	41%	27%	45%	18%	27%	50%	73%	36%	18%
Percent Jurisdictions In Progress		9%	14%	27%	27%	50%	50%	18%	14%	9%	36%	32%
Implemented + In Progress		77%	68%	68%	55%	95%	68%	45%	64%	82%	73%	50%

¹⁴ Source: COG Annual Local Government Climate and Energy Surveys

2013-2016 ACTION PLAN PRIORITIES

1. Develop consistent annual regional GHG inventory
 - Including annual regional transportation sector emissions inventory
2. Regional Solar Initiative
3. Sustainable Purchasing Initiative
4. Energy security and community resiliency



Photo Credit: Argonne National Laboratory



FY 2014 PLANS

- Develop Climate and Energy Award Program
- EPA Green Power Communities Webinar
- Adaptation Planning Webinars/Workshops
- Regional Climate Impacts Fact Sheet
- Green/Energy-Aligned Lease Fact Sheet



Washington Harbour Flooding
Photo Credit: Paulo Ordoveza

