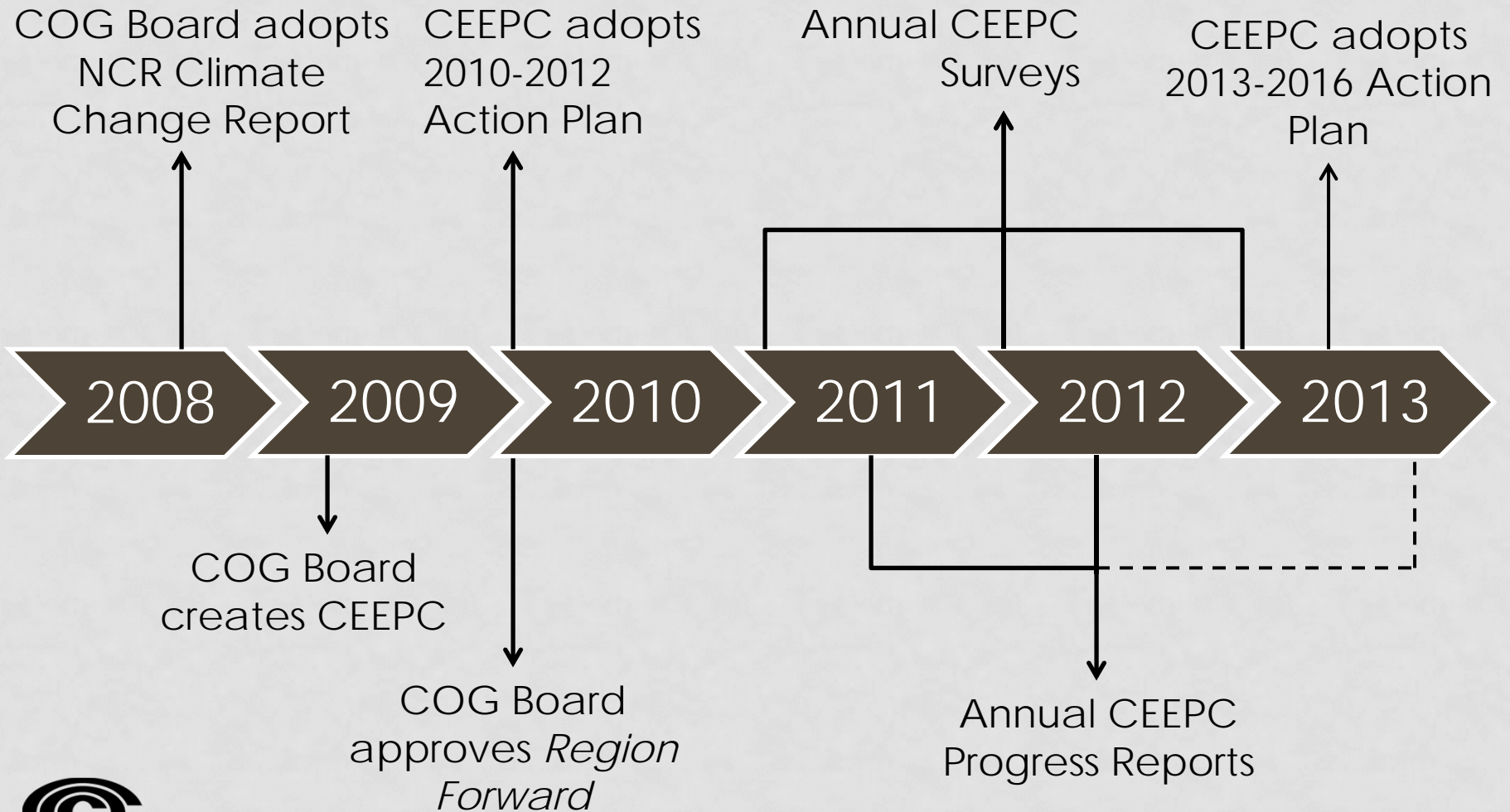




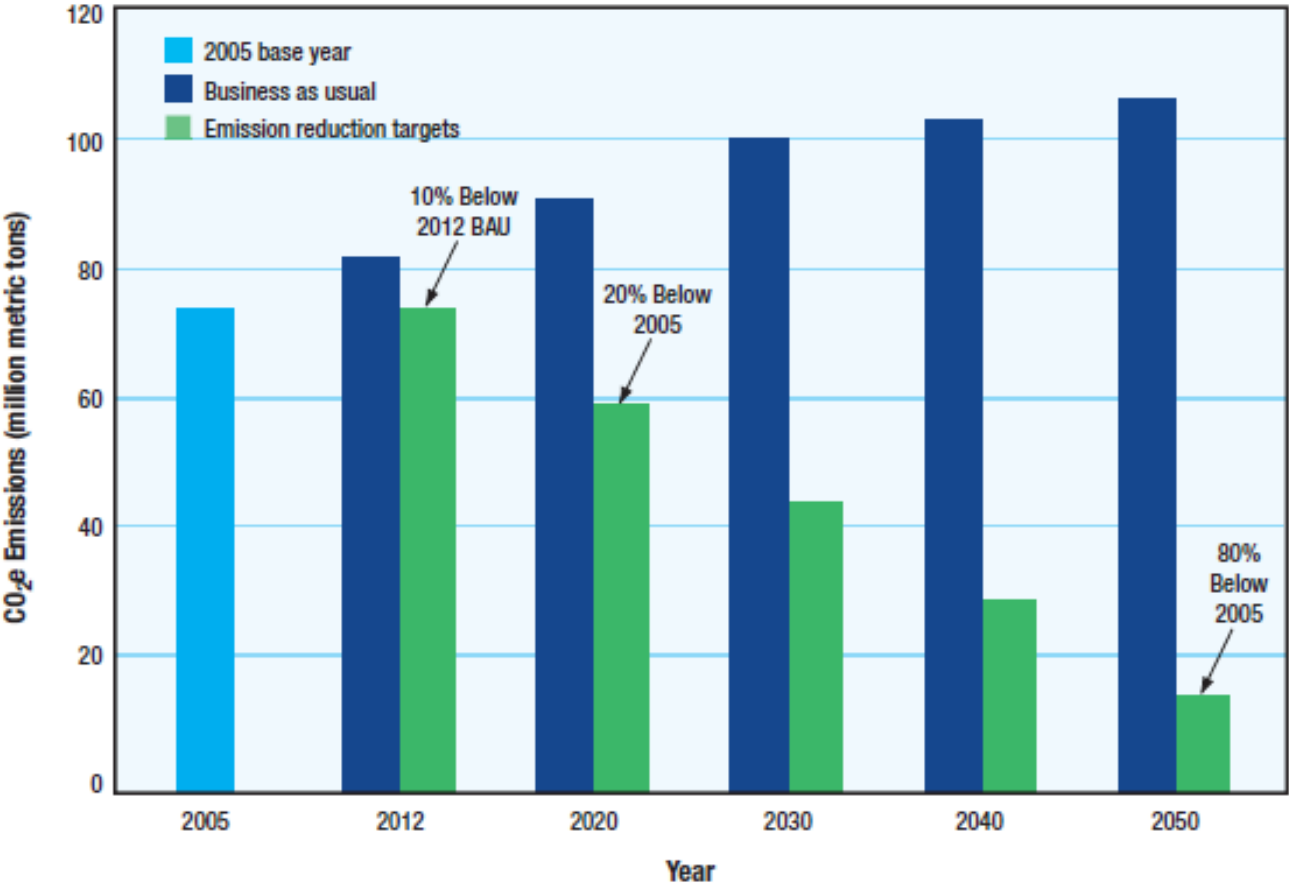
# CLIMATE AND ENERGY PROGRESS REPORT

METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS  
MAIA DAVIS  
CLIMATE, ENERGY AND ENVIRONMENT POLICY COMMITTEE MEETING  
SEPTEMBER 25, 2013

# OVERVIEW

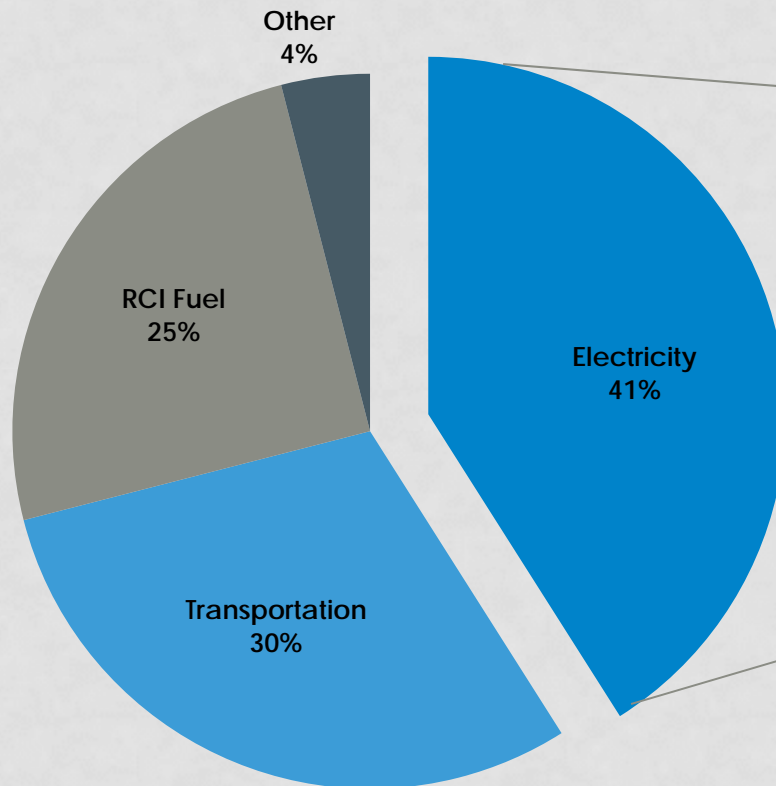


# REGIONAL GREENHOUSE GAS EMISSION REDUCTION GOALS

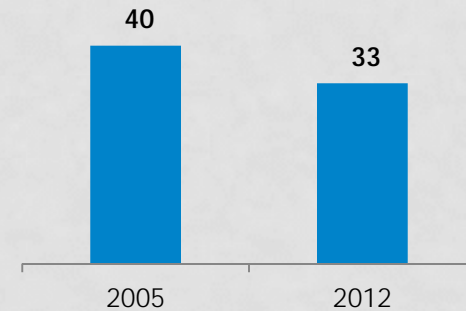


# GREENHOUSE GAS EMISSIONS

2005 GHG Emissions by Sector



Electricity Emissions Reductions 2005-2012 (MMT CO<sub>2</sub>)



# GREENHOUSE GAS EMISSIONS

## COG Initiatives

- Utility Data Request/Analysis to inform regional and local GHG inventories
- Training on Community GHG Inventories

## FY 2014 Plans

- Annual regional GHG inventory
- Annual regional transportation sector inventory





# ENERGY EFFICIENCY

## Regional Highlights

- **95%** of local jurisdictions are in the process of tracking and/or benchmarking government building energy performance<sup>2</sup>
- Over **800** ENERGY STAR labeled buildings in the region, totaling more than 187 million square feet of floor space<sup>3</sup>



Environmental Performance Label at Central Library  
Photo Credit: Arlington County Environmental Services



<sup>2</sup> Source: COG Annual Local Government Climate and Energy Surveys

<sup>3</sup> Source: [Energy Star Certified Buildings and Plants Database](#)

# ENERGY EFFICIENCY

## COG Initiatives

- COG actively promotes use of EPA ENERGY STAR Portfolio Manager
- Hosted 2 hands-on trainings of Portfolio Manager (2010 and 2012)

## FY 2014 Plans

- Benchmarking workshop
- Set up Portfolio Manager Regional Master Sharing Account





# GREEN BUILDING

## Regional Highlights

- USGBC named DC, MD and VA in the **top 10 states** for LEED in 2012<sup>4</sup>
- In the National Capital Region alone, there are over **700** LEED projects certified, totaling more than 177 million gross square feet<sup>5</sup>



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



<sup>4</sup> Source: [Top 10 States for LEED in 2012](#)

<sup>5</sup> Source: [Public LEED Project Directory](#)



# GREEN BUILDING

## COG Initiatives

- 2010: COG awarded \$96,000 to fund 62 local govt members to attend the International Code Council (ICC) final action hearing and vote on adoption of 30 percent more stringent building codes

## FY 2014 Plans

- COG look into funding opportunities to send representatives to the October ICC public comment hearing to vote on final changes to the 2015 International Energy Conservation Codes (IECC)



# RENEWABLE ENERGY

## Regional Highlights

- **2,897** grid connected renewable energy systems operating in the region with a total capacity of **26,811 kW**<sup>6</sup>
- **73%** of jurisdictions have renewable energy system(s) on local government property<sup>7</sup>



Photo Credit: Argonne National Laboratory



<sup>6</sup> Source: COG Annual Energy Utility Surveys

<sup>7</sup> Source: COG Annual Local Government Climate and Energy Surveys

# RENEWABLE ENERGY

## COG Initiatives

- 2011: Solar America Communities Workshop
- 2011 – present: Round 1 of regional solar cooperative procurement

## FY 2014 Plans

- Round 2 of regional solar cooperative procurement
- Rooftop Solar Challenge





# ELECTRIC VEHICLES

## Regional Highlights

- **500** estimated electric vehicles are owned in the region<sup>8</sup>
- **15,000 to 30,000** electric vehicles are projected to be in the region by 2015<sup>9</sup>
- **133** publically accessible EV charging stations are located in the region<sup>10</sup>



Electric Vehicle Charging  
Photo Credit: Melissa Hinch-Ownsby



<sup>8</sup> Source: # of registered EVs according to data provided by VA, MD and DC Motor Vehicle Departments as of June 2012

<sup>9</sup> 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

<sup>10</sup> Source: COG Electric Vehicles in the Metropolitan Washington Region Report. Analysis as of April 2012



# ELECTRIC VEHICLES

## COG Initiatives

- 2010: established Electric Vehicle Workgroup
- 2012: [\*Electric Vehicles in Metropolitan Washington Report\*](#)

## FY 2014 Plans

- Looking into regional electric vehicle cooperative procurement for local government fleets



# CLIMATE RESILIENCY

## Regional Highlights

- 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 events<sup>11</sup>



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



<sup>11</sup> Source: [Dr. Raymond G. Najjar's Cleaning Up the Bay in a Warmer World presentation at COG's 2012 Climate Impact Symposium](#)

# CLIMATE RESILIENCY

## COG Initiatives

- 2010 – 2012: Awarded U.S. EPA Smart Growth Implementation Assistance and trained hundreds of regional leaders
- 2013: [Summary of Potential Climate Change Impacts, Vulnerabilities, and Adaptation Strategies in the Metropolitan Washington Region Report](#)

## FY 2014 Plans

- Regional Climate Impacts Fact Sheet
- Advisory role in national and local climate resiliency initiatives





# MORE WORK TO DO!

## Set priorities for the 2013 – 2016 Action Plan

1. Develop consistent annual regional greenhouse gas inventory
  - Develop annual regional transportation sector emissions inventory
2. Encourage local jurisdiction participation in the Rooftop Solar Challenge
3. Green purchasing

