



National Capital Region Climate Change Report

Adopted November 12, 2008

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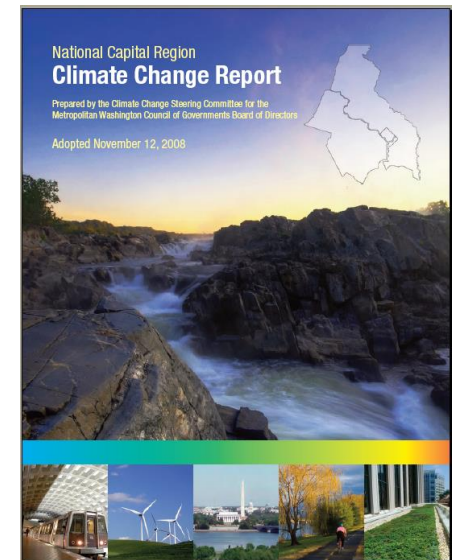
Metropolitan Washington Council of Governments

January 30, 2015



COG's Climate and Energy Program

- **2008 – Climate Change Report**
- **2009 – Established Climate, Energy and Environment Policy Committee (CEEPC)**
- **2010 – Adopted as part of Region Forward**
- **2010 and 2013 – Adopted Climate and Energy Action Plan in January 2010 and May 2013**





National Capital Region Climate Change Report

I. Facing Facts, Taking Stock and Taking Aim

- *Climate Change, Potential Impacts on Region;*
- *Current & Projected Regional Greenhouse Gas Emission Inventory;*
- *Regional Targets*

II. Taking Action

- *Energy Consumption;*
- *Transportation and Land Use;*
- *Economic Development;*
- *Preparing for Impacts, Financing;*
- *Outreach and Education.*

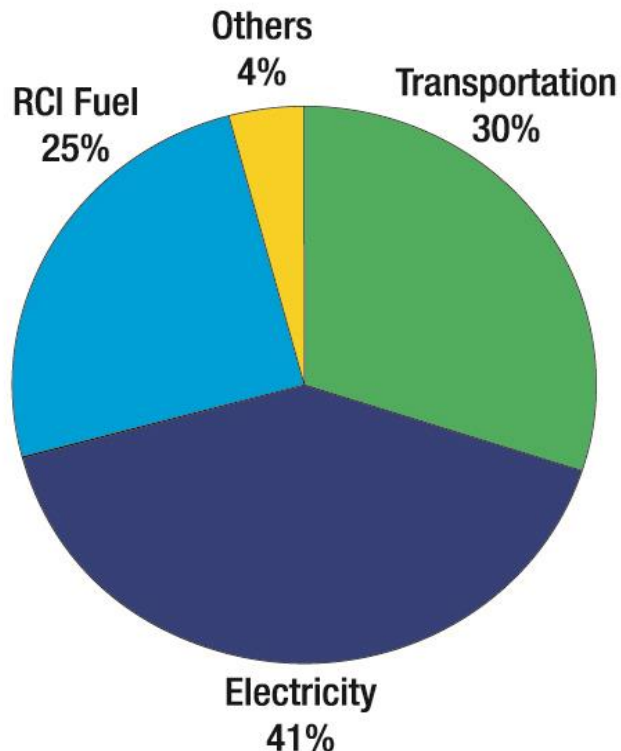
III. Moving Forward

- *COG Climate Change Program*

IV. Reference Information

Greenhouse Gas Emissions Inventory

Metropolitan Washington Greenhouse Gas Emissions: 2005



Total – 74 million metric tons in 2005

Per Capita = ~ 15 metric tons per capita/year



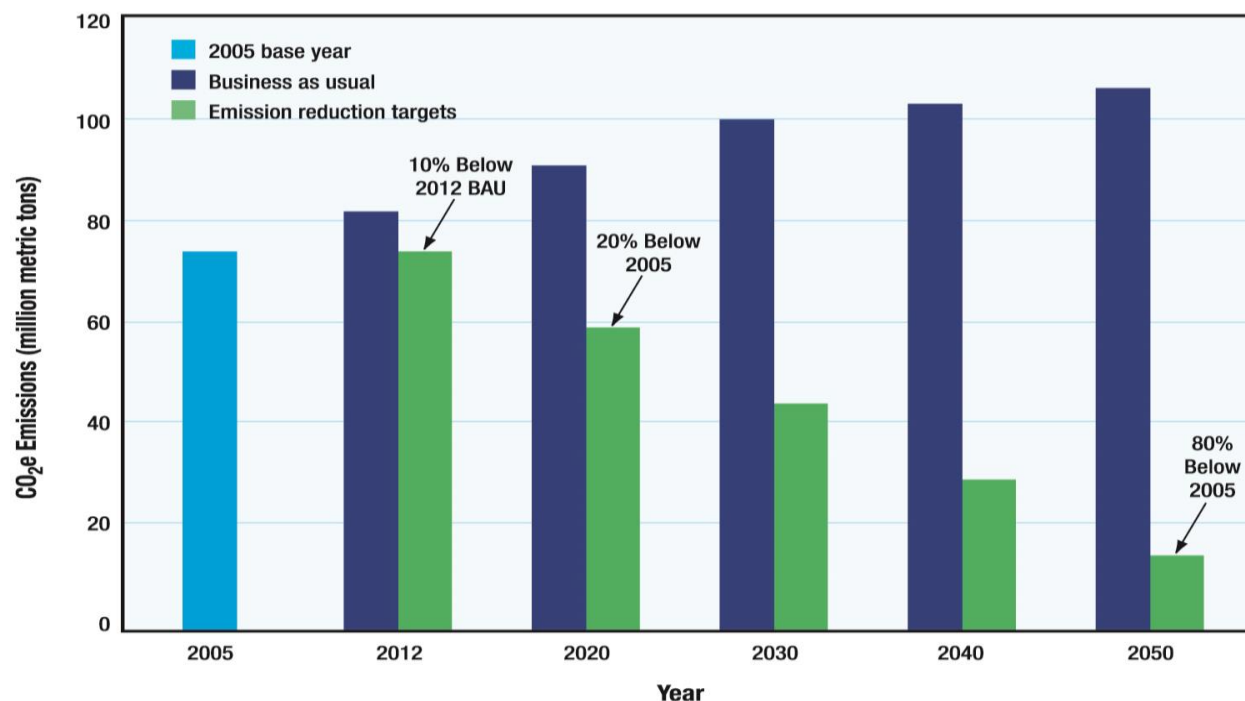
Adopted Regional Reduction Goals

2012: Return to 2005 Levels

2020: 20% Below 2005

2050: 80% Below 2005

Recommended Regional Greenhouse Gas Emission Reduction Targets Compared to Regional Greenhouse Gas Emissions Under BAU: 2005–2050



COG Targets

- 2012: 10% below BAU
- 2020: 20% below 2005 levels
- 2050: 80% below 2005 levels



Recommended Actions

~ 78 Recommendations

- ❖ Regional Reduction Goals
- ❖ Energy
- ❖ Transportation and Land Use
- ❖ Economic Development
- ❖ Adaptation
- ❖ Financing
- ❖ Outreach & Education
- ❖ COG Climate Change Program



2008 Climate Change Report Energy Recommendations

Improve Energy Efficiency

Regional Example: Identify best practices for improving energy efficiency of existing buildings.

Local Government Leading By Example:
Regional Green Building Policy – LEED
Silver for all new local government buildings

Reduce Energy Demand

Regional Example: Explore regional energy audit and retrofit program

Local Government Leading By Example:
Reduce Energy Use by 15% by 2012
Regional Street Light Replacement Program

Develop Clean Energy Alternatives

Regional Example: Support 20% Renewable Portfolio Standard

Local Government Leading by Example:
Adopt 20% Renewable Energy Purchase by 2015



2008 Climate Change Report Transportation Recommendations

Increase Fuel Efficiency

Regional Example: Support California Low Emission Vehicle Standards

Local Government Leading by Example:
Promote transit supportive street designs

Reduce Vehicle Miles Traveled

Regional Example: Shift short trips (less than 3 miles) from car to other modes

Local Government Leading by Example:
Fully fund bicycle/pedestrian paths as outlined in regional plan

Use Alternative Fuels

Regional Example: Promote adoption of regional Green Fleet goal

Local Government Leading by Example:
Accelerate adoption of efficient clean fuel vehicles



2008 Climate Change Report Land Use Recommendations

Smart Growth

Regional Example: Promote walkable communities and affordable housing near transit

Local Government Leading by Example:
Research regional goals for directing development to activity centers

Tree Canopy Preservation

Regional Example: Establish regional goal of no net loss of tree canopy

Local Government Leading by Example:
Consider density and height requirements for buildings to foster tree canopy goal

Comprehensive Planning

Regional Example: Evaluate LEED-ND Standards for guiding new development

Local Government Leading by Example:
ID best practices for including GHG reduction as part of local comprehensive planning



2008 Climate Change Report Additional Recommendations

Financing and Economic Development

Regional Example: Clean Energy Fund; Offset Fund for Tree Planting and Canopy Management

Local Government Leading by Example: Funding for Building Retrofits; Cooperative Purchasing; Energy Performance Contracting

Outreach and Education

Regional Example: Regional Outreach Partnerships: Clean Air Partners and Commuter Connections

Local Government Leading by Example: Climate Action Week; Climate Leaders Awards

Adaptation

Regional Example: Partner with university to develop 2050 regional climate impacts report/adaptation strategy

Local Government Leading by Example: Vulnerability assessments, adaptation planning & emergency preparedness

COG Climate Program

Regional Example: Establish COG Board Climate and Energy Policy Committee

Local Government Leading by Example: Prepare energy or climate plan to achieve 2012 goal

2008 Climate Change Report Energy and Climate Change Advocacy Positions

Federal Legislation

Energy Efficiency Standards: Building codes, Federal operations, Industrial Usage
Federal Support for Local Resiliency Planning and Infrastructure Improvements

State Legislation

Policies to support clean, distributed energy technology markets
Utility sector innovation, new energy regulation frameworks
Support resilience, energy security and preparedness

Regional Climate Program

Greenhouse gas inventory, data & resources to COG member governments
Support energy efficiency & renewable energy deployment at local level
Convene stakeholders and develop regional strategies for energy security and climate resilience



Example Energy and Climate Program Accomplishments

Regional Solar Initiatives

Collaborative Municipal Solar Procurement

Rooftop Solar Challenge: Regional Solar Permitting Standards; Solarize

Electric Vehicle Task Force

Electric Vehicle Readiness Report

Climate Resilience

Using Smart Growth Strategies to Create More Resilient Communities (EPA Award)

Building a Climate Resilient NCR with NASA, GSA, Smithsonian, GCRP, NCPC