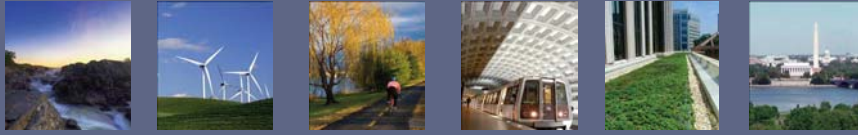


# Presentation

<b>Agenda Item #</b>	2
<b>Meeting Date</b>	September 8, 2008
<b>Prepared By</b>	Jessie Carpenter City Clerk
<b>Approved By</b>	Barbara B. Matthews City Manager

<b>Discussion Item</b>	Metropolitan Washington Council of Governments (COG) Draft National Capital Region Climate Report
<b>Background</b>	<p>The COG Board has approved for comment the National Capital Region Climate Report. The report includes significant greenhouse gas reduction goals for the region as well as 78 recommendations to help area leaders and citizens meet the targets. COG members, stakeholders and the public are invited to review the draft plan and comment on it by September 30, 2008 at 5 p.m.</p> <p>David J. Robertson, Executive Director of COG, and Stuart A. Freudberg, COG Environmental Director, will present the report to the Council on September 8.</p> <p>Information on the draft report and information on COG environmental programs can be viewed online at: <a href="http://www.mwcog.org/environment/">http://www.mwcog.org/environment/</a>.</p>
<b>Policy</b>	The City of Takoma Park is concerned about its impact on the environment and, through its membership in COG and other organizations, seeks to work cooperatively on climate change and other environmental issues.
<b>Fiscal Impact</b>	None – for presentation only.
<b>Attachments</b>	<ul style="list-style-type: none"> <li>• COG Draft National Capital Region Climate Report</li> <li>• Power Point Presentation</li> </ul>
<b>Recommendation</b>	Council to hear the presentation.
<b>Special Consideration</b>	



## Climate Change Steering Committee's *Draft* **Climate Change Report**

Presented to the Takoma Park City Council  
September 8, 2008

Stuart A. Freudberg  
Director, Environmental Programs  
Metropolitan Washington Council of Governments



### COG Board Action April 11, 2007



- **R31-07 creates COG Climate Change Steering Committee to:**
  - ❖ Prepare regional inventory of greenhouse gases
  - ❖ Identify best practices and policies
  - ❖ Examine climate change impacts
  - ❖ Recommend Regional greenhouse gas reduction goal(s)
  - ❖ Recommend governance structure for climate change initiative
  - ❖ Propose advocacy positions
  - ❖ Prepare report to COG Board



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# Climate Change Steering Committee

**Officers:**

**Chair:** Hon. Nancy Floreen, Montgomery County Council  
**Vice-Chair:** Hon. Gerry Connolly, Chairman, Fairfax County Board of Supervisors  
**Vice-Chair:** Hon. Mary Cheh, Council of the District of Columbia

**District of Columbia - Members**

Emeka Moneme, District Dept. of Transportation  
 George Hawkins, District Dept. of the Environment  
 Harriet Tregoning, District Office of Planning

**Maryland - Members**

Tad Aburn, Director, Air and Radiation Management, Maryland Dept. of the Environment  
 Hon. Roger Berliner, Montgomery County Council  
 Hon. Judith Davis, Mayor, Greenbelt  
 Hon. Camille Exum, Prince George's County Council

**Virginia - Members**

Hon. Paul Ferguson, Arlington County Clerk of the Circuit Court  
 Mercury Payton, Manassas Park City Manager  
 Hon. Andrea McGimsey, Loudoun County Board of Supervisors  
 Hon. Redella Pepper, Alexandria City Council  
 Hon. David Snyder, Falls Church City Council

**Other Regional/State Organizations - Members**

John Catoe, General Manager, Washington Metropolitan Area Transit Authority  
 Robert Grow, Director, Government Relations, Greater Washington Board of Trade  
 Nikki Rovner, Deputy Secretary of Natural Resources, Commonwealth of Virginia

**Alternates to Members:**

Zach Dobelbower (alternate to Ms. Tregoning)  
 Mark Rawlings (alternate to Mr. Moneme)  
 Rick Rybeck (alternate to Mr. Moneme)  
 Jack Werner (alternate to Mr. Hawkins)

Elizabeth Entwisle (alternate to Mr. Aburn)  
 Hon. John Foust (alternate to Mr. Connolly)

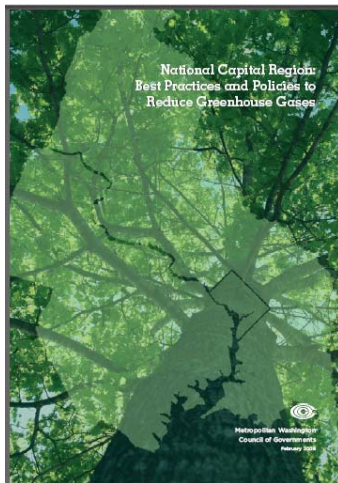
Nat Bottigheimer (alternate to Mr. Catoe)

**COG Staff:**

**Department of Environmental Programs:**  
 Stuart Freudberg, Director  
 Joan Rohlfis, Jeffrey King  
 George Nichols, Leah Boggs  
 Ted Graham, Tanya Spano

Naomi Friedman, Assistant Executive Director

# Best Practices Guide



**HIGHLIGHTS:**

- Over 2/3 of local governments in the region purchase renewable energy
- Over 1/2 of the jurisdictions have adopted energy efficiency measures
- Nearly 90% of the communities in the region have embarked on transit oriented development and over 80% have "walkable community" initiatives
- About 70% of communities have green space protection and green infrastructure programs
- All communities in the region have recycling programs.



## Energy and Climate Change Advocacy Positions

### Federal Energy Legislation

- Promoted strengthening CAFÉ standards
- Supported "green collar" job programs
- Supported Energy efficiency block grants to local governments

### Federal Climate Legislation

- Promoted the role of local governments/regional entities

### Regional Climate Program

- Endorsed Cool Capital Challenge
- Sent letter of concern re proposed coal-fired power plant in Wise County, Virginia

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## Climate Change Report – July 9, 2008

- 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**



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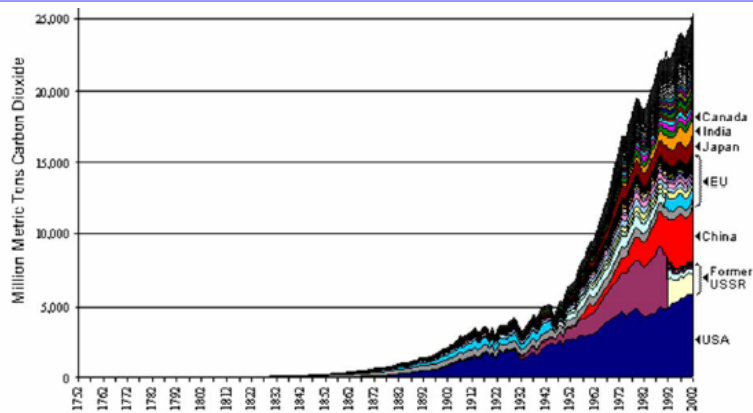


## Facing Facts, Taking Stock and Taking Aim



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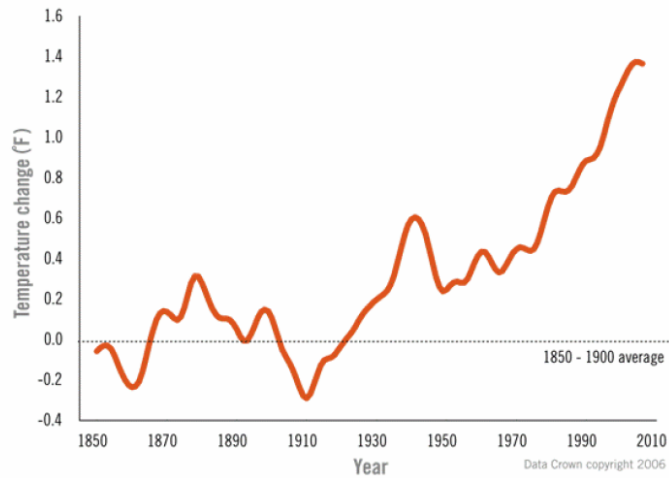
## Global CO<sub>2</sub> Emissions Since 1752



Source: Carbon Dioxide Information Analysis Center, U.S. Dept. of Energy

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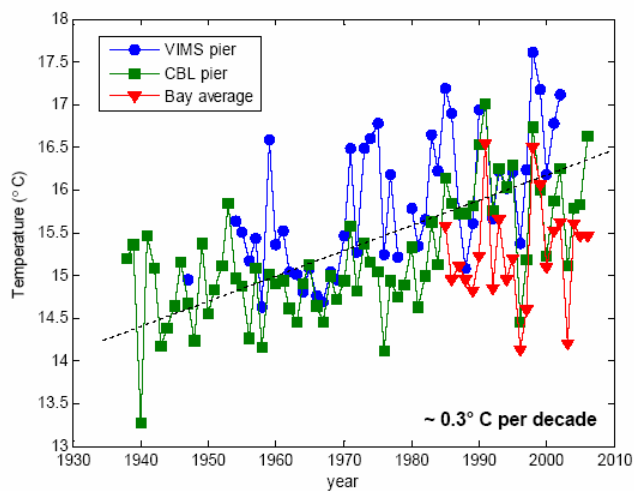
## Increasing Global Surface Temperature



Source: Pew Center on Global Climate Change

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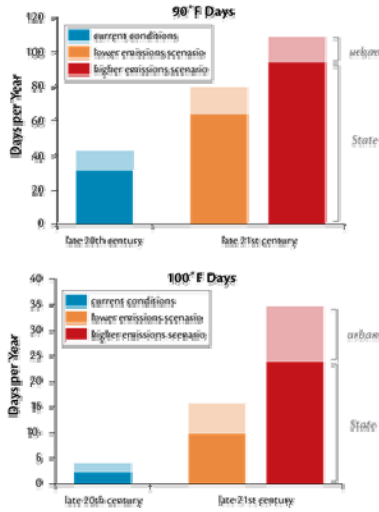
## Measured Temperature Changes in Chesapeake Bay Surface Waters



Source: Virginia Institute of Marine Science

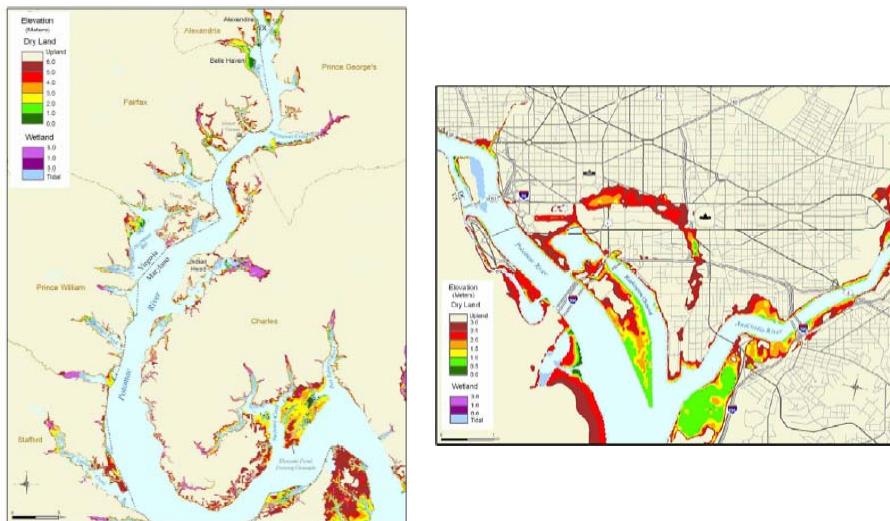
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# Milder Winters, Much Hotter Summers



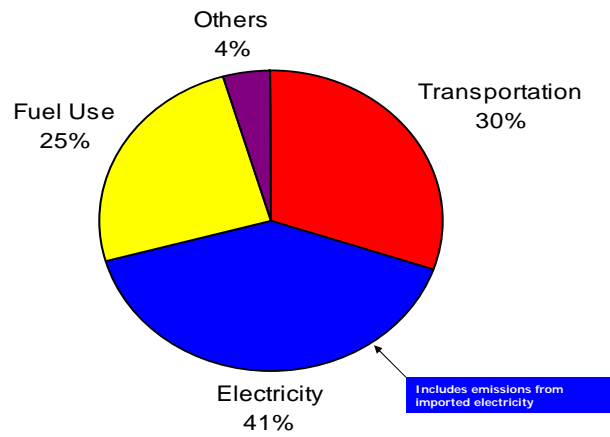
Source: Dr. Donald Boesch, University of Maryland

# Sea-level Rise Vulnerability in DC Area



Source: Dr. Donald Boesch, University of Maryland

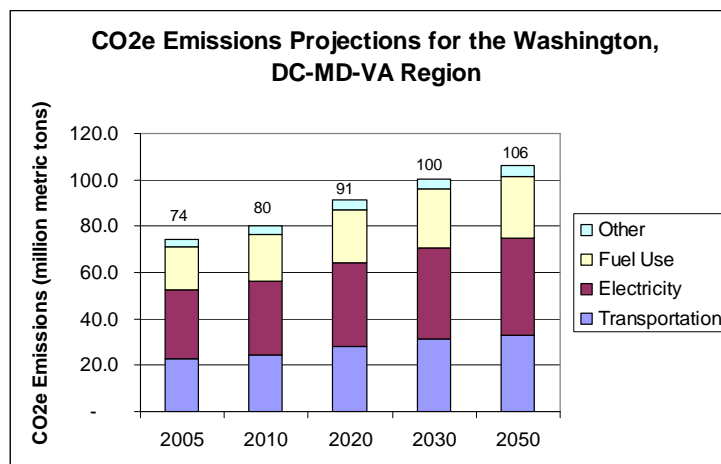
## Major Sources of Washington Region's Greenhouse Gas Emissions



Source: Metropolitan Washington Council of Governments

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## Projections of Regional Greenhouse Gas Emissions: 2005-2050



Source: Metropolitan Washington Council of Governments

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## Recommendations for Taking Action:

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

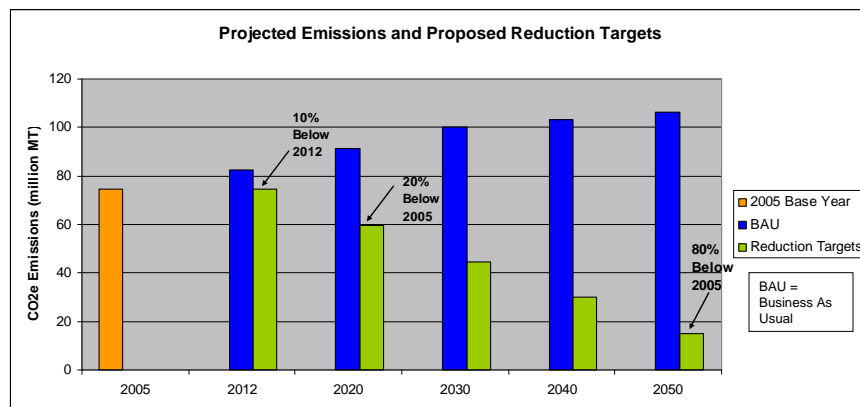
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## Proposed Regional Reduction Goals

**2012: 10% Below Business as Usual**

**2020: 20% Below 2005**

**2050: 80% Below 2005**



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# 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

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# 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

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# 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

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# Additional Recommendations

## Financing and Economic Development

- Clean Energy Fund
- Offset Fund for Tree Planting and Canopy Management
- Funding for Building Retrofits
- Cooperative Purchasing
- Energy Performance Contracting

## Outreach and Education

- Regional Outreach Partnerships: Clean Air Partners and Commuter Connections
- Climate Action Week
- Climate Leaders Awards

## Adaptation

- Partner with university to develop 2050 regional climate impacts report/adaptation strategy

## COG Climate Program

- Establish COG Board *Climate and Energy Policy Committee*
- Prepare plan to achieve 2012 goal by June, 2009.

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## Implementation Steps

- External Review by COG Members, Stakeholders and Public
- Development of Detailed Climate Action Work Program
  - ❖ Regional Plan for achieving 2012 goal
  - ❖ Analysis of Immediate Priority Recommendations
  - ❖ Reduction Tracking System
  - ❖ Advocacy Positions
  - ❖ Identification of Funding and/or Partnerships for selected initiatives including outreach and education
- Coordination with Greater Washington 2050

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## Schedule for Review and Final COG Board Action

- **Now through September 30:**
  - Comment Period for COG members, stakeholders and general public
- **November 2008:** COG Board acts on final report

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## For further information...

- To obtain an electronic copy of the report:
  - [https://www.mwcog.org/environment/climate/Documents/Climate\\_Change\\_Report\\_Public\\_Review\\_Draft%207\\_9\\_08.pdf](https://www.mwcog.org/environment/climate/Documents/Climate_Change_Report_Public_Review_Draft%207_9_08.pdf)
- To comment on the report:
  - <http://www.mwcog.org/environment/climate/public/>
- Questions?
  - Stuart A. Freudberg, COG Environmental Director
    - [sfreudberg@mwcog.org](mailto:sfreudberg@mwcog.org), 202/962-3340