

COG Board of Director's Climate Change Steering Committee
Draft **Climate Change Report**

Presented to MWAQC
July 30, 2008

Honorable Nancy Floreen
Chair, Climate Change Steering Committee





COG Board Action April 11, 2007



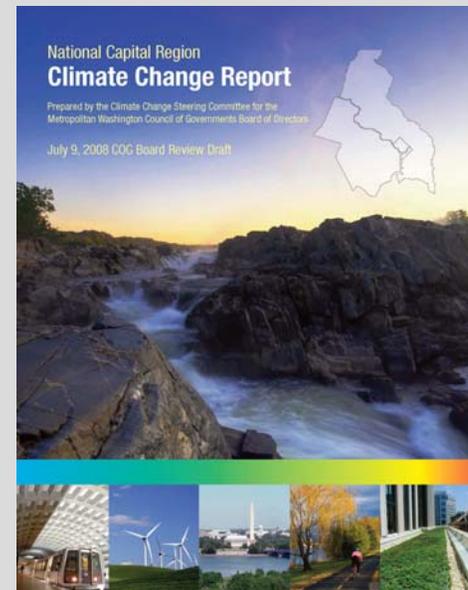
- **R31-07 creates COG Climate Change Steering Committee to:**
 - ❖ Prepare regional inventory of greenhouse gases
 - ❖ Identify best practices and policies
 - ❖ Examine climate change impacts
 - ❖ Recommend Regional greenhouse gas reduction goal(s)
 - ❖ Recommend governance structure for climate change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

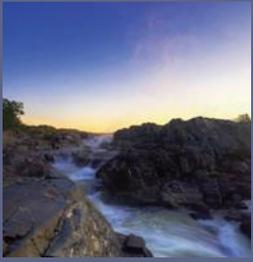




Climate Change Report

- 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**

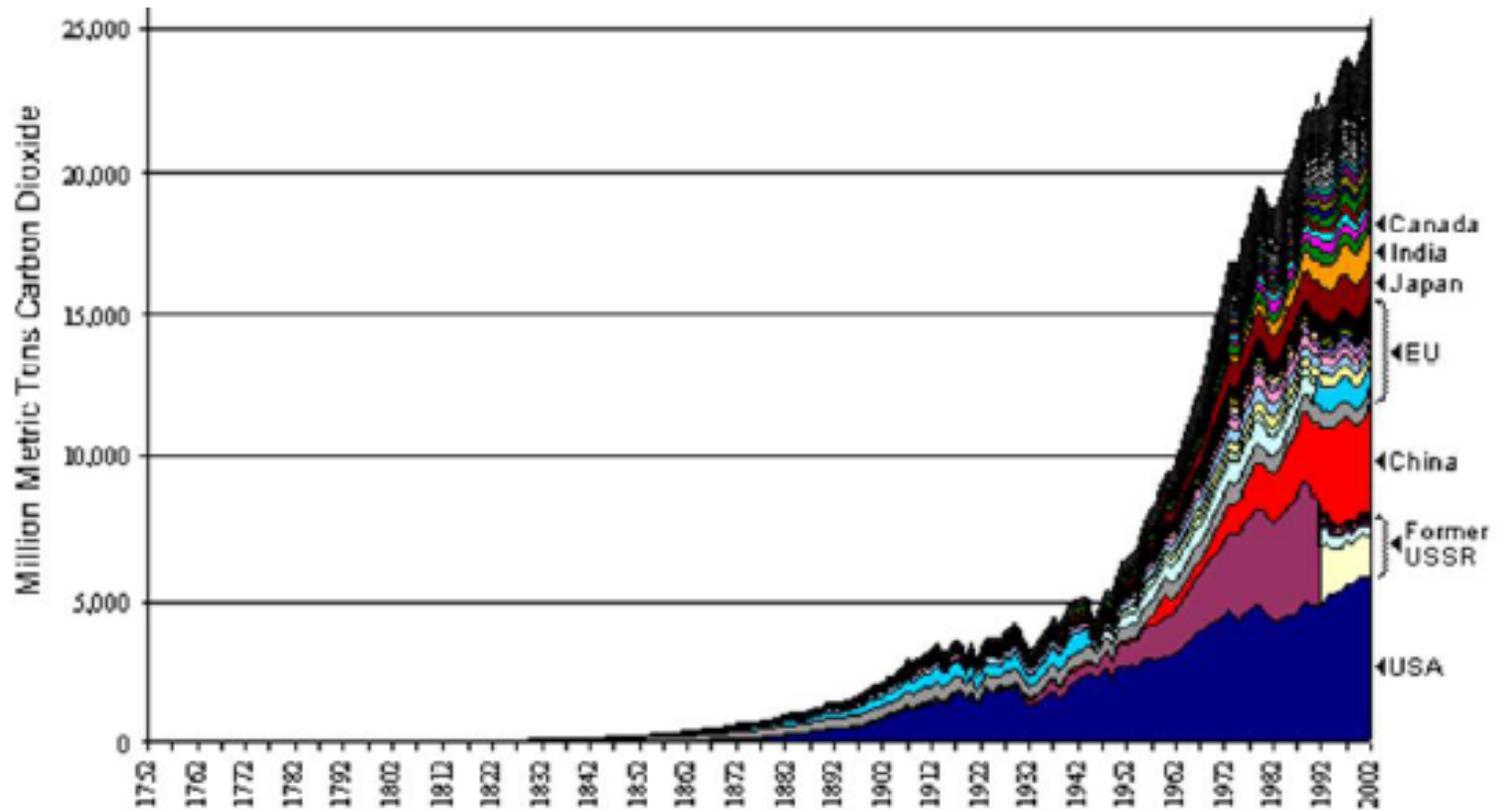




Facing Facts, Taking Stock and Taking Aim

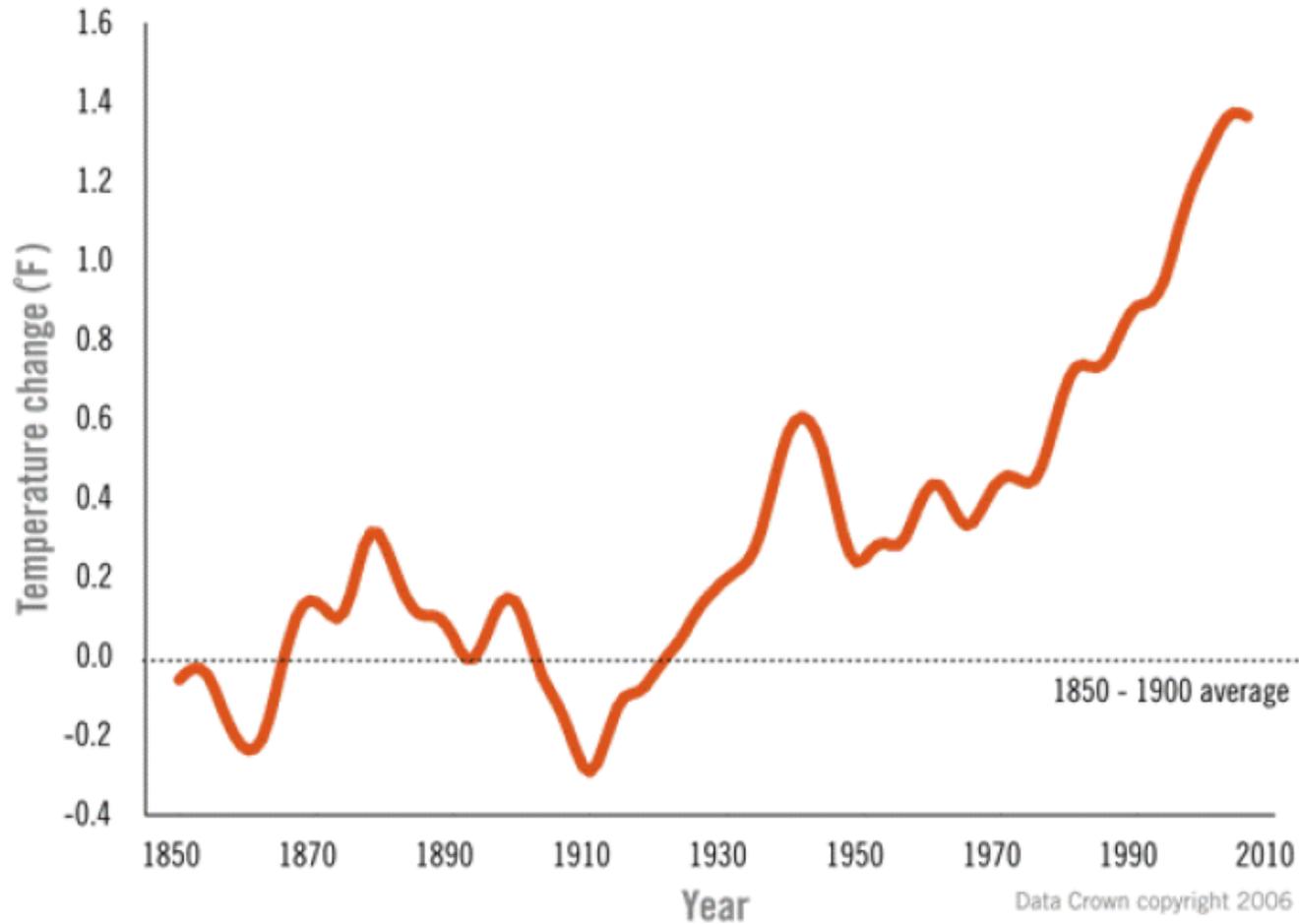


Global CO₂ Emissions Since 1752

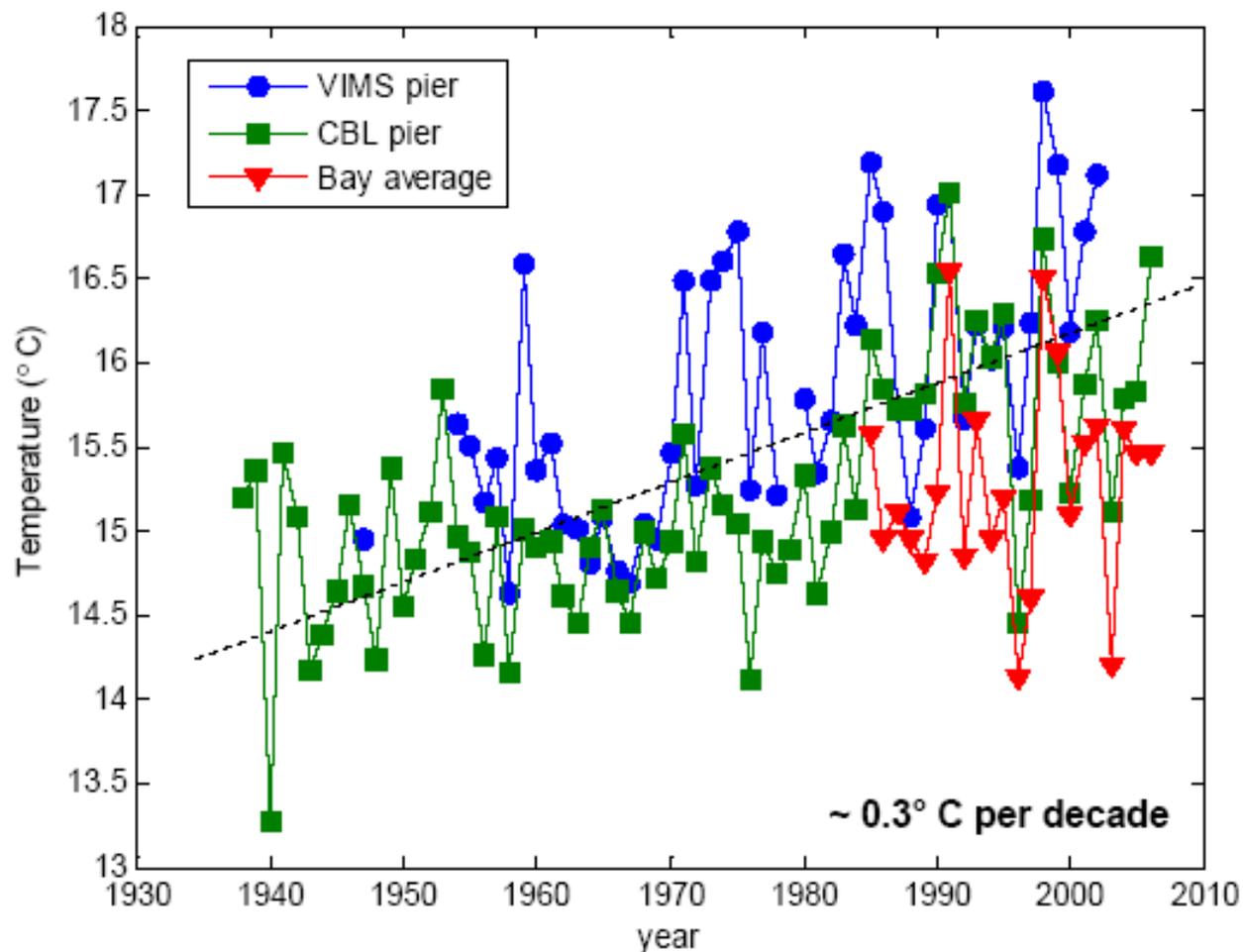


Source: Carbon Dioxide Information Analysis Center, U.S. Dept. of Energy

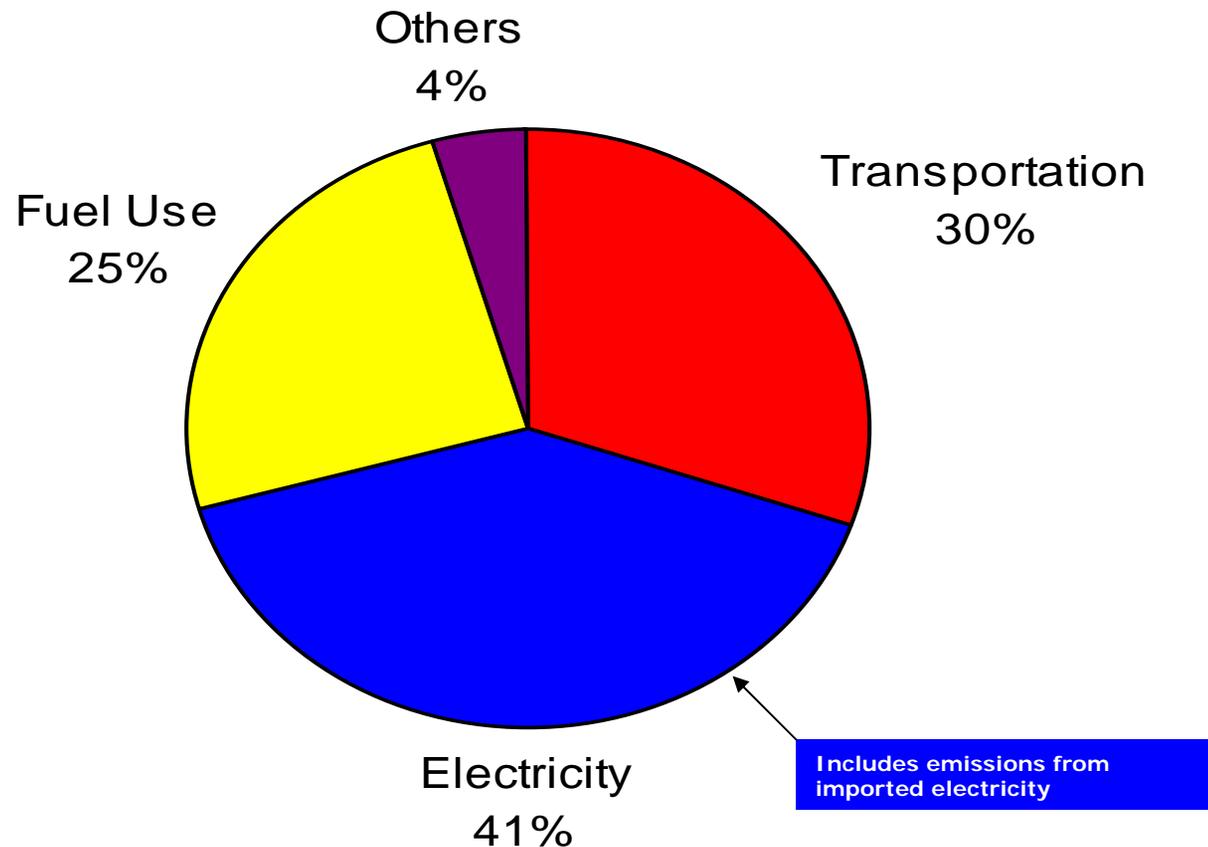
Increasing Global Surface Temperature



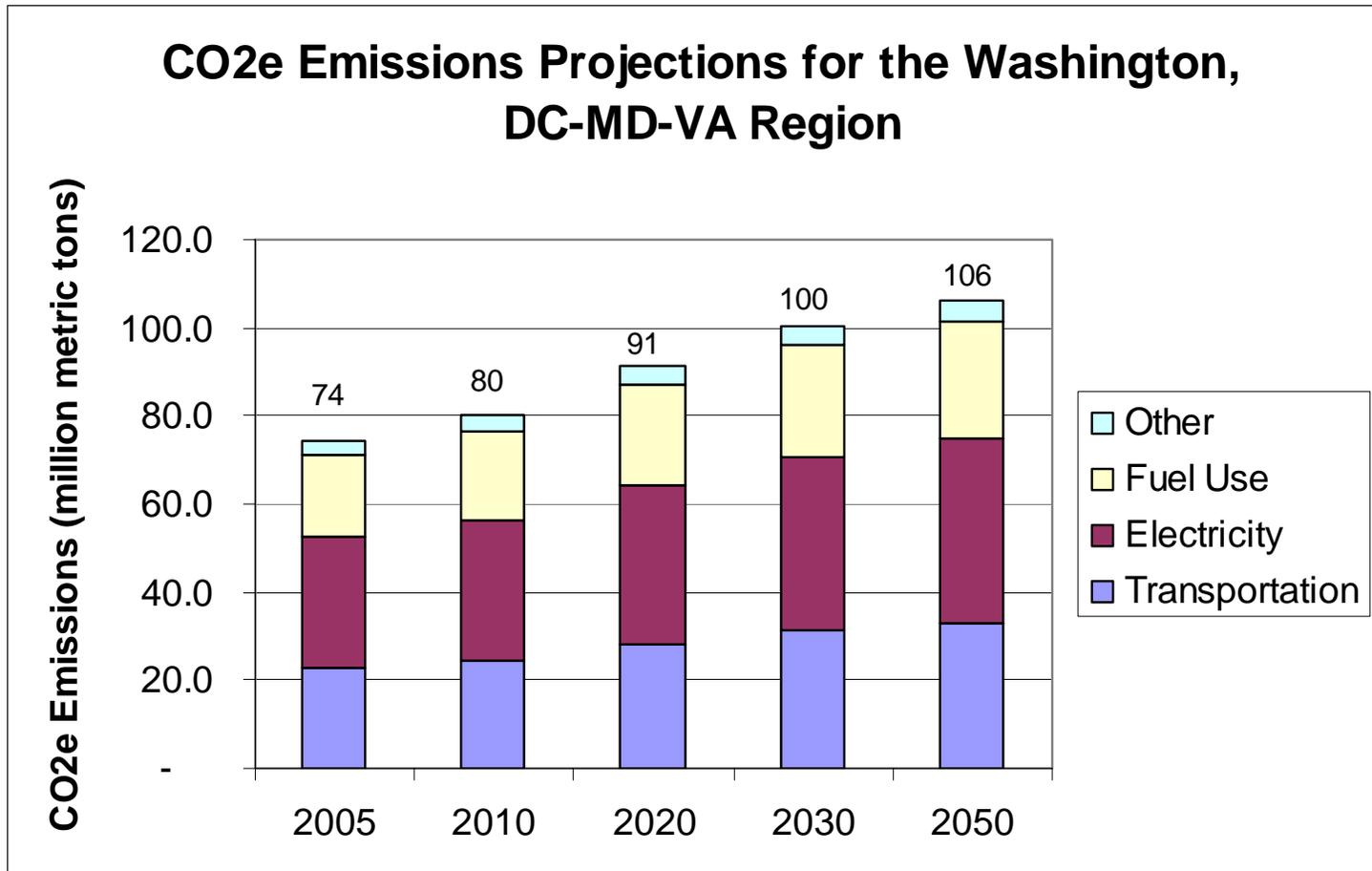
Measured Temperature Changes in Chesapeake Bay Surface Waters



Major Sources of Washington Region's Greenhouse Gas Emissions



Projections of Regional Greenhouse Gas Emissions: 2005-2050



Source: Metropolitan Washington Council of Governments



Recommendations for Taking Action:

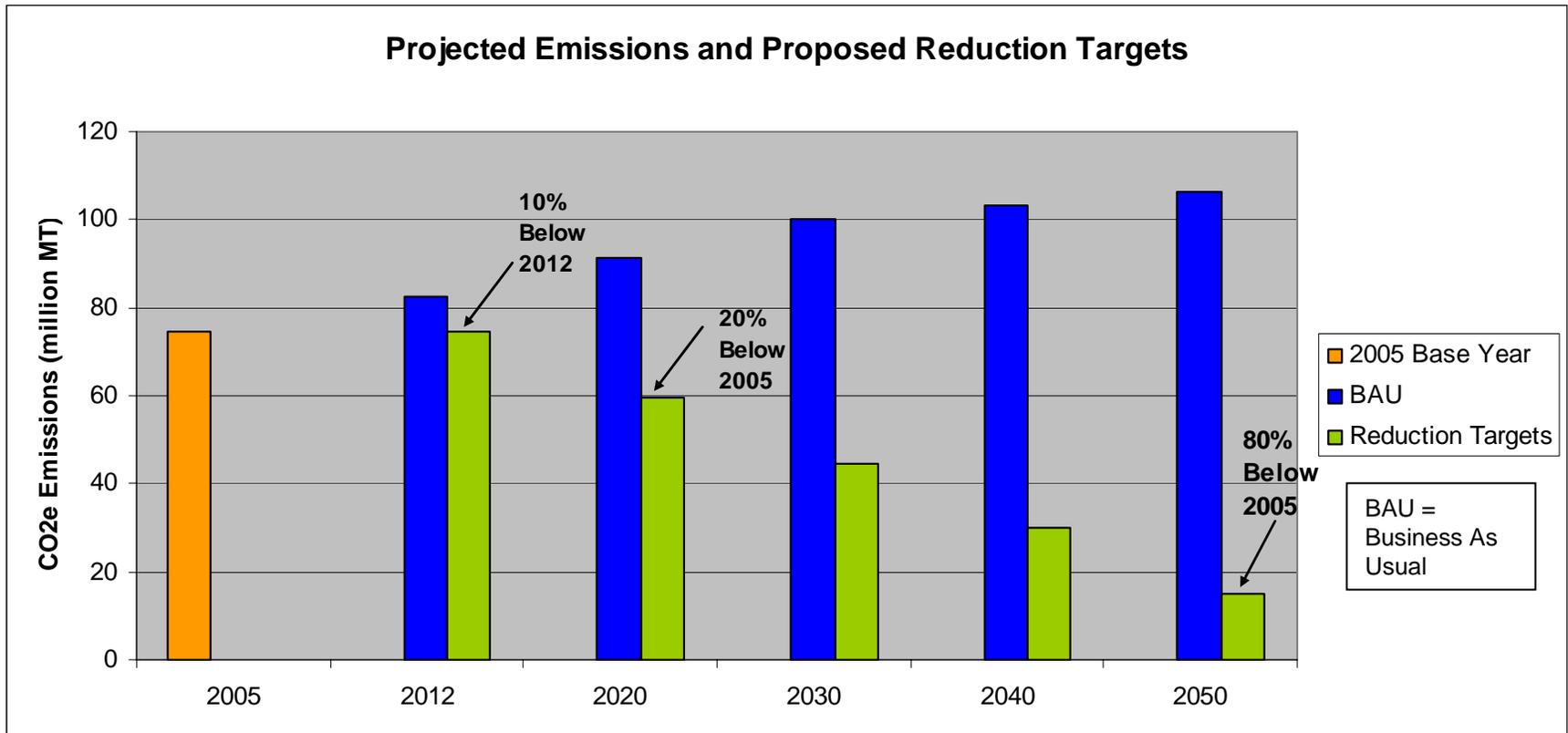
- ❖ Regional Reduction Goals
- ❖ Energy
- ❖ Transportation and Land Use
- ❖ Economic Development
- ❖ Adaptation
- ❖ Financing
- ❖ Outreach & Education
- ❖ COG Climate Change Program

Proposed Regional Reduction Goals

2012: 10% Below Business as Usual

2020: 20% Below 2005

2050: 80% Below 2005





Energy

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



Transportation

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



Land Use

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



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

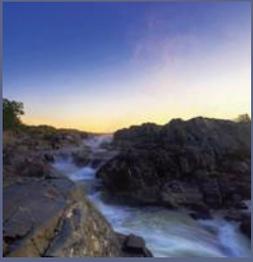
COG Climate Program

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



Implementation Steps

- External Review by COG Members and Stakeholders
- 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



Draft Report Review Schedule

- The COG Board approved circulating report for comment by COG members and other stakeholders
 - Comment period through **September 30, 2008**
 - Submit comments at this site:
<http://www.mwcog.org/environment/climate/public/>
- **October 2008:** Climate Change Steering Committee prepares revised draft
- **November 2008:** COG Board considers final report