



# Maryland Greenhouse Gas and Carbon Mitigation Working Group

Meeting #7  
February 21, 2008

Maryland Department of the Environment  
Maryland Energy Administration  
The Center for Climate Strategies

# Welcome and Introductions

- Maryland Department of the Environment
- Maryland Energy Administration
- Other Maryland State Agencies
- Maryland Greenhouse Gas and Carbon Mitigation Working Group (MWG)
- Members of the Public
- Center for Climate Strategies

# Agenda

- Introductions and Review of the Day's Agenda
- Update on Recent Developments
  - MCCC process
  - Global Warming Solutions Act
- Review of MWG Process
- Meeting #7 Goals:
  - Review TWG Quantification of Priority Policy Options, revising if needed
  - Approve consensus policy options, if any
- Review any TWG changes to the Draft Maryland GHG Inventory and Forecast
- Date, Time and Agenda for Next Meeting
- Public Input and Announcements

# Recent Developments

- Maryland Commission on Climate Change Process
  - Schedule
- Global Warming Solutions Act

# Stepwise Planning Process

1. Develop inventory and forecast of emissions - Ongoing
2. Identify a full range of possible actions - Sept. 28
3. Identify initial priorities for analysis - Oct. 26
4. Develop straw proposals - Nov. 30
5. Quantify GHG reductions and costs/savings - *Jan. 15*
6. Evaluate externalities, feasibility issues - *Feb. 21*
7. Develop alternatives to address barriers
8. Aggregate results - **March**
9. Iterate to final agreements - **April**
10. Finalize report and recommendations - **April-May**

# Review & Approval of TWGs' Initial Quantification of Priority Policy Options

- 300+ possible actions developed by TWGs and MWG
- 53 initial priorities for analysis approved by MWG
- TWGs formulate straw proposals for policy design, quantification
- MWG reviews quantification and approves with modifications if/as needed

# Policy Option Template

- Policy Description (Concept)
- Policy Design (Goals, Timing, Coverage)
- Implementation Methods
- Related Programs and Policies (BAU)
- *Estimated GHG Reductions and Costs/Savings*
  - *Data Sources, Methods and Assumptions*
  - *Key Uncertainties*
- *Additional (non-GHG) Benefits and Costs, as Needed*
- *Feasibility Issues, if Needed*
- *Status Of Group Approval*
- Level of Group Support
- Barriers to Consensus, if any

# Residential, Commercial Industrial

1. Improved Building Codes for Energy Efficiency
2. Demand-Side Management (DSM)/Energy Efficiency Programs, Funds, or Goals for Electricity (Including Expansion of Existing Programs and Peak Load Reduction)
3. Low-cost Loans for Energy Efficiency improvements
4. Improved Design and Construction in New and Existing State and Local Government Buildings, “Government Lead-by-Example”
5. “Government Lead-by-Example” on appliances and lighting
6. Energy Efficiency and Environmental Impacts Awareness in School Curricula
7. Promotion and Incentives for Improved Design and Construction (e.g., LEED, Green Buildings, or Minimum % Improvement Beyond Code) in the Private Sector

# Residential, Commercial Industrial

8. Support for Energy Efficient Communities Planning, "Smart Growth"
9. More Stringent Appliance/Equipment Efficiency Standards (State-level, or Advocacy for Regional or Federal-level Standards)
10. Rate structures and Technologies to Promote Reduced GHG Emissions (Including Inverted Block Rates)
11. GHG or Carbon Tax
12. White Roofs, Rooftop Gardens, and Landscaping (including Shade Tree Programs) and Solar Electric Panels
13. Energy Efficiency Resource Standard (EERS)

# Transportation & Land Use

1. Increased Fuel Tax
2. Land Use and Location Efficiency
3. Transit
4. Low Greenhouse Gas Fuel Standard
5. Intercity Travel: Aviation, High Speed Rail, Bus
6. Pay-as-you-Drive Insurance
7. VMT Reductions
8. Bike and Pedestrian Infrastructure
9. Pricing Measures
10. Off-Road Engines/Vehicles
11. Assessment of GHG Impacts of Major Projects

# Break



# Energy Supply

1. Promotion of Renewable Energy
2. Technology-Focused Initiatives for Electricity Supply
3. GHG Cap-and-Trade
4. CCSR Incentives, Requirements and/or Enabling Policies
5. Clean Distributed Generation
6. Integrated Resource Planning
7. Renewable and/or Environmental Portfolio Standard
8. Efficiency Improvements and Repowering Existing Plants
9. Carbon (GHG) Tax
10. Generation performance standards and/or mitigation requirements for electricity

# Cross-Cutting Issues

1. GHG Inventory and Forecasting
2. GHG Reporting and Registry
3. Statewide GHG Reduction Goals and Targets [*Complete*]
4. State and Local Government GHG Emissions (Lead-by-Example)
5. Public Education and Outreach
6. Tax and Cap Policies
7. Seek Funding for Implementation of MWG Recommendations
8. Participate in Regional and Multi-State GHG Reduction Efforts
9. Promote Economic Development Opportunities Associated with Reducing GHG Emissions in Maryland
10. Create Capacity to Address Climate Change Issues in an “After Peak Oil” Context
11. Evaluate Climate Change Policy Options to Determine Projected Public Health Risks, Costs, and Benefits

# Ag, Forestry, & Waste

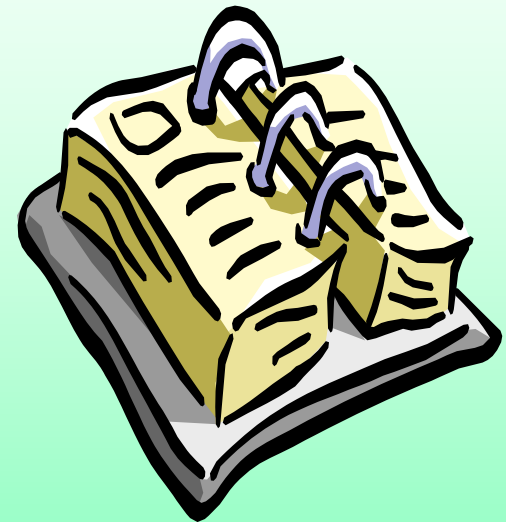
1. Forest Management for Enhanced Carbon Sequestration
2. Managing Urban Trees and Forests for Greenhouse Gas Benefits
3. Afforestation, Reforestation and Restoration of Forests and Wetlands
4. Protection & Conservation of Agricultural Land, Coastal Wetlands and Forested Land
5. “Buy Local” Programs for Sustainable Agriculture, Wood and Wood Products
6. Expanded Use of Forest and Farm Feedstocks and By-Products for Energy Production
7. In-State Liquid Biofuels Production
8. Nutrient Trading with Carbon Benefits
9. Waste Management through Source Reduction & Advanced Recycling

# Next Steps

- TWGs
  - Finalize policy option templates and quantification approaches based on MWG review
  - Re-quantify GHG reductions and cost/savings of priority policy options, as needed
  - Revisions to the draft inventory and forecast
- MWG
  - Review and approve consensus policy options
  - Review and approve final characterization and quantification of priority policy options
  - Review initial aggregation of policy options
  - Review and approve any proposed revisions to the inventory and forecast

# Next MWG Meeting

- Date, Time, Location
  - March 19, 2008
  - Time: TBD
  - Location: MDE
- Agenda:
  - Approve TWGs' characterization and quantification of policy options, as revised
  - Approve consensus policy options, if any
  - Initial aggregation of quantified policy options
  - Review any TWG modifications to the Maryland GHG emissions inventory and forecast, if any



# Public Input, Announcements