



Maryland Greenhouse Gas and Carbon Mitigation Working Group

Meeting #6
January 15, 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
 - Federal Mandatory GHG Reporting
 - Federal Purchase of Conventional Fuels
 - MCCC process; Interim Report
- Review of MWG Process
- Meeting #6 Goal: Review initial TWG Quantification of Priority Policy Options; Revise as Needed.
- Review of any changes to the Draft GHG Inventory and Forecast
- Date, Time and Agenda for Next Meeting
- Public Input and Announcements

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Recent Developments

1. Mandatory GHG Reporting included in Omnibus Federal Appropriations Bill
 - EPA to publish a rule within 18 months requiring mandatory reporting of GHG emissions above appropriate thresholds in all economic sectors.
2. Lifecycle GHG Provisions re Federal Fuel Purchases included in Energy Bill
 - No unconventional fuels unless $\text{GHG} \leq$ conventional fuels.
3. MCCC Process
 - Interim Report
 - Schedule

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
6. Evaluate externalities, feasibility issues - Jan. 15
7. Develop alternatives to address barriers
8. Aggregate results - TBD
9. Iterate to final agreements - TBD
10. Finalize and report recommendations - TBD

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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

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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

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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

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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

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Break



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Residential, Commercial Industrial

1. Improved Building and Trade Codes for Energy Efficiency
2. Demand-Side Management (DSM)/Energy Efficiency Programs, Funds, or Goals for Electricity and Natural Gas (Including Expansion of Existing Programs and Peak Load Reduction)
3. Low-cost Loans for Energy Efficiency
4. Improved Design, Construction, Appliances, and Lighting in New and Existing State and Local Government Buildings: “Government Lead-by-Example”
5. Energy Efficiency and Environmental Impacts Awareness and Instruction

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Residential, Commercial Industrial

6. Promotion and Incentives for Improved Design and Construction (e.g., LEED, Green Buildings, or Minimum % Improvement Beyond Code) in the Private Sector
7. More Stringent Appliance/Equipment Efficiency Standards (State-level, or Advocacy for Regional or Federal-level Standards)
8. Rate structures and Technologies to Promote Reduced GHG Emissions (Including Peak Pricing and Inverted Block Rates)
9. GHG or Carbon Tax
10. Energy Efficiency Resource Standard (EERS)
11. Phase Out Incandescent Light Bulbs in State

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Transportation & Land Use

1. Carbon 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. Evaluate the GHG Emission Impacts of Major Projects

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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

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Next Steps

- TWGs
 - Refine priority policy options and quantification approaches based on MWG review
 - Revise quantification GHG reductions and cost/savings of priority policy options
 - Revisions to the draft inventory and forecast
- MWG
 - Review and approve consensus policy options
 - Review and approve quantification of priority policy options
 - Review aggregation of policy options
 - Review and approve proposed revisions to the inventory and forecast

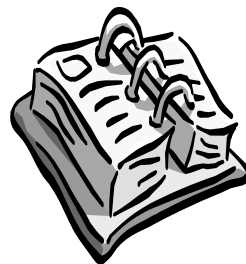
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Next MWG Meeting

- Date, Time, Location
 - February 19, 2008
 - Time: TBD
 - Location: MDE
- Agenda:
 - Review and approve TWGs' revised quantification and aggregation of priority policy options, modifying as needed
 - Review TWGs' suggested updates to the Maryland GHG emissions inventory and forecast, as needed



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Public Input, Announcements

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