



# Maryland Climate Change Commission Mitigation Working Group

## **Residential, Commercial & Industrial Technical Work Group**

Meeting #8

December 19, 2007

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

# Today's Agenda

- Call to order and roll call
- Review and approval of prior call summary
- Review of stepwise process
- Agenda, date and time for next meeting
- Review MWG meeting input on straw proposals
- Discuss methods for analyzing the draft policy options approved by the MWG
- Planning and next steps in process
- Public Input and announcements

# Stepwise Planning Process

1. Develop inventory and forecast of emissions
2. Identify a full range of possible actions
3. Identify initial priorities for analysis
4. Develop straw proposals
5. Quantify GHG reductions and costs/savings
6. Evaluate externalities, feasibility issues
7. Develop alternatives to address barriers
8. Aggregate results
9. Iterate to final agreements
10. Finalize and report recommendations

# TWG Roles

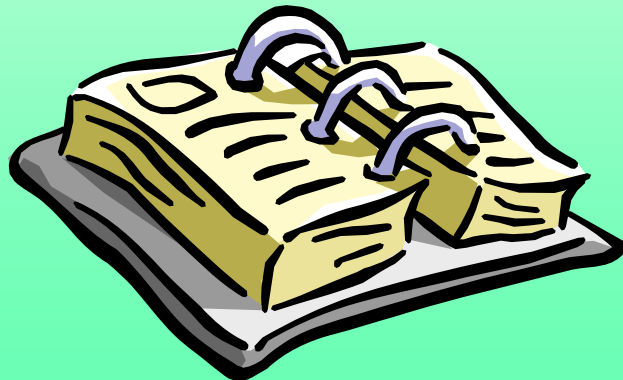
- Assist MWG
  - Identify potential state actions
  - Identify potential priorities for analysis
  - Identify Fast Track Options
  - Suggest straw policy designs
  - Assist with analysis and review of options
  - Assist with development of policy alternatives
  - Assist with input to and review of MWG reports
  - Review and assist with the state GHG inventory and forecast

# Key Dates

<u>Date</u>	<u>Meeting</u>
October 26, 2007	4 <sup>th</sup> MWG Meeting
November 2007	Interim Report
November 30, 2007	5 <sup>th</sup> MWG Meeting
January 16, 2007	6 <sup>th</sup> MWG Meeting
February 19, 2007	7 <sup>th</sup> MWG Meeting
March 19, 2007	8 <sup>th</sup> MWG Meeting
April 20, 2007	Final Report
Between MWG Meetings	Technical Working Group (TWG) Calls and/or Meetings

# Next TWG Meetings

- 9<sup>th</sup> Meeting of the TWG
  - Proposed Date and Time:  
**Thurs., Jan. 3, 2008,  
2:00 PM–4:00 PM**
  - Agenda:  
Review and suggest  
modifications to the draft  
inventory and forecast
- 10<sup>th</sup> Meeting of the TWG
  - Proposed Date and Time:  
**Fri., Jan. 11, 2008,  
10:00 AM–12:00 PM**
  - Agenda:
    - Review initial results of  
quantification of costs and  
benefits
    - Continue developing the  
implementation  
mechanisms section of the  
straw proposal



# Proposed TWG Meetings

MWG Meeting #	MWG Meeting Date	TWG Meeting #	Proposed TWG Meeting Dates
5	Nov. 30, 2007	8	Dec. 19, 2007 (Wed)
		9	Jan. 3, 2008 (Thurs)
		10	Jan. 11, 2008 (Fri)
6	Jan. 16, 2007	11	Jan. 22, 2008 (Tues)
		12	Feb. 6, 2008 (Tues)
7	Feb. 19, 2007	13	Mar. 4, 2008 (Tues) – if needed
8	Mar. 19, 2007		
Final Report	Apr. 20, 2007		

# TWG Next Steps

- Today:
  - Discuss quantification methods, data sources, and key uncertainties
- Next meetings:
  - Develop recommendations for modifying South Carolina emissions inventory and projections (I&F)
  - Review initial results of quantification of costs and benefits
  - Begin developing the implementation mechanisms section of the straw proposal

# Changes from MWG Meeting #5

Option No.	Draft Policy Option Name	MWG Changes
RCI-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)	Accepted TWG suggestion to have RCI-2 complement the EERS (RCI-11). The peak pricing element is moved to RCI-8.
RCI-9	GHG or Carbon Tax	TWG should coordinate with ES
RCI-10	White Roofs, Rooftop Gardens, Landscaping (including Shade Tree Programs), and solar electric panels.	Covered under RCI-4 and RCI-6
RCI-11	Energy Efficiency Resource Standard (EERS)	Accepted TWG suggestion to have RCI-11 complement RCI-2

# Priority Policy Options

Option No.	Draft Policy Option Name
RCI-1	Improved Building Codes for Energy Efficiency
RCI-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)
RCI-3	Low-cost loans for energy efficiency
RCI-4	Improved design, construction, appliances, and lighting in new and existing state and local government buildings, "Government Lead-by-example"
RCI-5	Energy Efficiency and Environmental Impacts Awareness and Instruction in School Curricula
RCI-6	Promotion and Incentives for Improved Design and Construction (e.g. LEED, green buildings, or minimum % improvement better than code) in the Private Sector
RCI-7	More Stringent Appliance/Equipment Efficiency Standards ( <i>state-level, or advocate for regional or federal-level standards</i> )
RCI-8	Rate structures and Technologies to Promote Reduced GHG Emissions (including inverted block rates)
RCI-9	GHG or Carbon Tax
RCI-11	Energy Efficiency Resource Standard (EERS)
RCI-12	Phase out incandescent light bulbs in state

# Policy Proposal Template

- Policy description
- Policy design
- Potential implementation mechanisms
- Related policies/programs in place
- Type(s) of GHG reductions
- Estimated GHG savings and cost per MtCO<sub>2</sub>e
- Key uncertainties
- Types of additional (non-GHG) benefits and or costs
- Description of feasibility issues, if needed
- Status of group approval
- Level of group support
- Barriers to consensus

# Proposed Quantification Methods

*See separate policy option document.*

# MD GHG Reduction Goals

- **2015**
  - 10% below 2006 levels by 2012
  - 15% below 2006 levels by 2015 (consumption based)
- **2020**
  - 25-50% below 2006 levels (min. to aspiration)
- **2050**
  - 90% below 2006 levels (80% from 1990)
- **2100** - Zero emissions = carbon neutral.
- Review every 4 years

# Public Input, Announcements