



# Arkansas Governor's Commission on Global Warming

Agriculture, Forestry and Waste  
Management Technical Work Group  
Meeting #8, May 27, 2008

Office of the Governor  
Center for Climate Strategies

# Welcome and Introductions

- Technical Work Group (TWG) Members
- Advisory Body Members
- Governor's Office
- Members of the Public
- Center for Climate Strategies

# Agenda

1. Introductions
2. Review and Approval of Prior Call Summary
3. GCGW Process Progress
4. Outcomes GCGW Meeting #6 (May 19, 2008)
5. Discuss Potential Policy Option Goals for Outstanding Options
6. Discuss Next Steps in Developing Straw Proposals
7. Review of Next Steps for TWG
8. Agenda, Date and Time for Next Meetings
9. Public Comments 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

# Outcomes from GCGW Meeting #6

Clarify AFW goal statements that the percentage increases or decreases are relative to a BAU

- AFW-1
  - Change AR Soil and Water Conservation Commission to AR Natural Resources Commission.
- AFW-2
  - No additions.
- AFW-3
  - Clarify Baseline.
- AFW-4
  - Change from methane to energy to incorporate other forms of energy, including hydrogen.
  - Add definition of marginal land.
  - Include language to clarify the intent is not to increase food prices.
  - TWG to decide how to handle the affect on price of food.
  - Ensure that the text under the Related Policies/Programs in Place section is taken from the Act.
- AFW-5
  - Delete reference to Act 87 (outdated Act).
  - Coordinate this policy option with TLU-2 and TLU-8 regarding life-cycle GHG analysis.
  - Delete "in-state" from the title given that using fuels in border states may result in GHG benefits.
  - Replace ethanol and biodiesel with "biofuels," and replace " fossil diesel" with "conventional petroleum-based fuels."

# Outcomes from GCGW Meeting #6 (cont.)

- AFW-6
  - Determine baseline. Adjust percentages based on this baseline: if the baseline is high, set high goals
  - Include emissions from transportation and refrigeration
  - Include composite lumber and its recycled content, explicitly stating the benefits of using recycled products.
- AFW-7
  - replace "the number of urban trees" with "urban canopy".
  - work with the Arkansas Forestry Commission to determine whether the 50% target on private land is feasible
  - consider adding to this option a goal of sustaining groundcover, such as tall prairie grasses.
- AFW-8
  - The AR DEQ will provide data to aid goal setting such as the amount of solid waste generated, recycled, and landfilled.
- AFW-9
  - Review U.S. EPA AR projects identified as potential candidates for capturing methane from landfills; other jurisdictions may provide insights into what is possible, such as buying electricity from landfill gasification systems

# Development of Straw Proposals for Priority Policy Options

AFW-1	Manure Management
AFW-2	Promotion of Farming Practices that Achieve GHG Benefits
AFW-3	Improved Water Management and Use
AFW-4	Expanded Use of Agriculture and Forestry Biomass Feedstocks for Electricity, Heat or Steam Production
AFW-5	Expanded Use of In-State Liquid Biofuels
AFW-6	Expanded Use of Locally Produced Farm and Forest Products
AFW-7	Forest Management and Establishment for Carbon Sequestration
AFW-8	Advanced Recovery and Recycling
AFW-9	End of Use Waste Management Practices

# Policy Option Goals

## **AFW 7 - Forest Management and Establishment for Carbon Sequestration**

- Implement urban tree-planting and -retention programs to increase urban canopy by X% by 2015 and by X% by 2025.
- Implement sustainable forest management practices to achieve carbon benefits on 50% of privately owned land by 2025.
- Implement sustainable forest management practices to achieve carbon benefits on 50% of state-owned resource lands by 2025.
- Restore/establish X,000 acres of forest by 2015 and X,000 acres by 2025.
- Sustain existing forests to ensure no net loss of existing forests.
- consider adding to this option a goal of sustaining groundcover, such as tall prairie grasses.

## **AFW 8 – Advanced Recovery and Recycling**

- Increase the municipal solid waste stream diverted to recycled materials markets by X% by 2015 and X% by 2025.

## **AFW 9 - End of Use Waste Management Practices**

- Develop additional landfill gas-to-energy and anaerobic digester projects to increase the number of uncontrolled MSW landfills recovering methane as an energy source, such that X% of the landfill gas being generated at uncontrolled landfill sites is controlled by 2025.

# Next Steps for AFW TWG

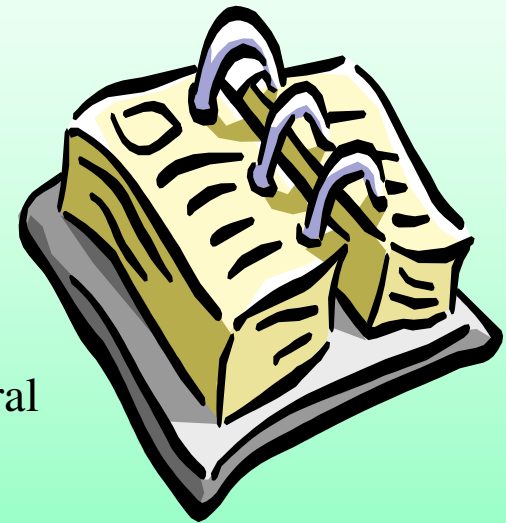
- Develop consensus recommendations for design characteristics of remaining AFW priority policy options
- Develop straw proposals for the design of policy options including identifying policies/programs in place and implementation mechanisms (see next slide).
- Begin quantification of GHG reductions and costs/savings
- Develop recommendations for improving draft Arkansas GHG Inventory and Forecast
  - On-going - GCGW Meetings #6 - #8

# Development of Priority Policy Options

- Design Template / Matrix
  - Policy description
  - Policy design (goals, timing, parties involved)
  - Potential implementation mechanisms
  - Related policies/programs in place (in Arkansas)
  - Type(s) of GHG reductions
  - Estimated GHG reductions and costs or cost savings
  - Key uncertainties
  - Types of additional (non-GHG) benefits and or costs
  - Feasibility issues, if needed
  - Status of group approval (reserved for GCGW)
  - Level of group support (reserved for GCGW)
  - Barriers to consensus (reserved for GCGW)

# Next AFW TWG Meeting

- Agenda:
  - Develop straw proposals for policy description, design, and related policies/programs in place
  - Begin review of draft inventory and forecast for Arkansas
- Dates/Times for Next TWG Calls
  - AFW TWG Call #8 – May 27, 1:00-2:30pm, Central Time.
  - AFW TWG Call #9 – June 3, 1:00-2:30pm
  - AFW TWG Call #10 – July 1, 1:00-2:30pm
  - AFW TWG Call #11 – July 15, 1:00-2:30pm
  - AFW TWG Call #12 – August 12, 1:00-2:30pm
  - AFW TWG Call #13 – September 9, 1:00-2:30pm



# Public Input, Announcements