



Arkansas Governor's Commission on Global Warming

Meeting #5, April 9, 2008

Arkansas Governor's Office
The Center for Climate Strategies

Welcome and Introductions

- Arkansas Governor's Office
- Governor's Commission on Global Warming Members
- Advisory Group Members
- Members of the Public
- Center for Climate Strategies

Agenda

1. Welcome and Introductions
2. Review of Day's Agenda
3. Public Input and Announcements
4. Approval of draft summary of GCGW Meeting #4
5. Date and Time for Next GCGW Meetings
6. Review and Approval of Draft Suggested Priorities for Analysis of State Actions
7. Update on Status Of Arkansas' Draft GHG Inventory and Forecast
8. Next Steps for Commission and Technical Work Groups
9. Agenda for GCGW Meeting #6

Dates for Remaining GCGW Meetings

- Meeting #6
 - May 19 (Monday); 9:30 am – 4:30 pm
- Meeting #7
 - July 31 (Thursday); 9:30 am – 4:30 pm
- Meeting #8 (Final Meeting)
 - September 25 (Thursday); 9:30 am – 4:30 pm
- Consider adding a meeting in June?

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

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Review and Approval of Draft Priorities for Analysis

- 306 possible actions listed in CCS Catalog
- 326 potential actions developed by GCGW (TWGs and GCGW added 20)
- 51 initial draft priorities for analysis recommended by TWGs
- GCGW reviews and approves with modifications, if/as needed
- TWGs formulate straw proposals for policy design, quantification

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Policy Design Proposals

- GCGW identifies about 50 draft potential options for further development
- TWGs screen, prioritize, and propose initial policy option design (“straw proposals”)
 - Timing
 - Goals
 - Coverage
- CCS quantifies and presents for review
- GCGW revisits list of potential priorities, as needed

Policy Option Template

- Policy Description (Concept)
- Policy Design (Goals, Timing, Coverage)
- Implementation Mechanisms
- Related Policies/Programs in Place (in Arkansas - BAU)
- Type(s) of GHG Reductions
- Estimated GHG Reductions and Net Costs or Cost Savings
 - Data sources, quantification methods, and key 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

Agriculture, Forestry & Waste Management (AFW)

1. Expanded use of Agriculture and Forestry biomass feedstocks for electricity, heat or steam production
2. Advanced Recovery and Recycling
3. Forest Management and Establishment for Carbon Sequestration
4. Expanded use of in-state Liquid Biofuels
5. Manure Management
6. Promotion of Farming Practices that Achieve GHG Benefits
7. End of Use Waste Management Practices
8. Improved Water Management
9. Expanded Use of Locally Produced Farm and Forest Products

AFW 2nd Tier Options

- 4.1 Land Use Management that Promotes Permanent Cover
- 1.4 Encourage Cogeneration at Ag-Biomass Energy Sites
- 3.1 Soil Carbon Management
- 5.1 Reductions in On-Farm Energy Use

Transportation & Land Use (TLU)

1. Infrastructure for Plug-In Vehicles
2. Research and Development for Renewable Transportation Fuels
3. Smart Growth Bundle
4. Bicycle and Pedestrian Infrastructure
5. Promote and Facilitate Freight Efficiency Bundle
6. Improve and Expand Transit Service and Infrastructure
7. School and University Transportation Bundle
8. Alternative Fuel Development and Expansion
9. Public Education

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TLU 2nd Tier Options

- 1.2.2 Vehicle Maintenance and Driver Training
- 1.3.1 Procurement of Efficient Fleet Vehicles
- 1.3.2 Feebates (State-Specific or Regional)
- 1.3.4 Tax Credits for Efficient Vehicles
- 1.1.1 New Vehicle Standards: Tailpipe GHG and Fuel Economy
- 1.3.9 Provide a Tax Incentive for Adult Bicycles
- 1.3.10 Support Alternative Travel in the Advertising Mainstream
- 2.1.1 Statewide Growth Management Plan
- 2.1.2 Include GHG Evaluations in State Policies
- 2.1.5 Land Use, Zoning, Tax, and Building Code Reform
- 2.1.13 Smart Growth Planning, Modeling, and Tools
- 2.1.14 Targeted Open-Space Protection
- 2.1.15 Balance Economic Development With Agriculture, Protection of Natural Resources, and Preserving Rural Character
- 2.2.18 Issue Free Bus Passes to Downtown Workers
- 2.3.11 VMT/GHG Offset Requirements for Large Developments
- 2.3.17 Free Downtown Parking for Fuel-Efficient Vehicles
- 3.2.7 Enforce Anti-Idling Ordinances/Encourage Idling Alternatives
- 3.2.9 Freight Villages/Consolidation Centers
- 3.4.1 Procurement of Efficient Fleet Vehicles (Public, Private, or Other)
- 4.1 High-Speed Rail
- 4.2 Integrated Aviation, Rail, Bus Networks (Planning, Governance, and Investment)
- 5.10 "Shore power" at Port Sites

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Break



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Residential, Commercial, Industrial (RCI)

1. Improved Building Codes
2. Utility and Non-utility DSM for Electricity and Natural Gas
3. Reduced Energy Use in State-owned Buildings: Government "Lead by Example"
4. Promotion and Incentives for Improved Building Design and Construction
5. Consumer Education for Consumers and Industry Trades, Professions
6. Incentives to Promote Energy-efficiency
7. Green Power Purchasing for Consumers
8. Non-Residential Energy Efficiency
9. Energy-efficiency Funds
10. Support for Energy-efficient communities, including "Smart Growth"
11. Energy-savings Sales Tax

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RCI 2nd Tier Options

- 6.10 Property tax initiative
- 1.5 Regional Market Transformation Alliance
- 2.4 Increased Use of Blended Cement (substituting fly ash or other pozzolans for clinker)
- 3.1 Expansion of State-level Appliance Efficiency Standards
- 3.3 Require high-efficiency appliances in new construction and retrofits
- 4.4 In-home energy displays
- 5.4 Tiered (increasing block) rates for electricity and natural gas use
- 8.1 Support for switching to less carbon-intensive fuels (coal and oil to natural gas or biomass)
- 9.1 Government agency requirements and goals
- 9.5 Statewide effort to retrofit existing buildings (residential, commercial, public, and industrial) for energy efficiency
- 9.8 Industrial audits

Energy Supply (ES)

- 1. Green Power Purchases and Marketing
- 2. Technology Research & Development
- 3. Renewable and/or Environmental Portfolio Standard (RPS/EPS)
- 4. Grid-based Renewable Energy Incentives and/or Barrier Removal
- 5. Approaches Benefiting from Regional Application
- 6. Combined Heat and Power
- 7. Geological Underground Sequestration for New Plants
- 8. Transmission System Upgrades
- 9. Nuclear Power
- 10. Carbon Tax
- 11. Efficiency Improvements and Repowering of Existing Plants

ES 2nd Tier Options

- 1.4 Integrated resource planning (IRP)
- 1.7 Cost recovery for GHG reduction investments
- 2.6 Pricing strategies to promote renewable energy and/or CHP (e.g., net metering)
- 6.4 Environmental (GHG emissions) disclosure
- 1.3 Generation performance standards and/or mitigation requirements for electricity
- 2.9 Public Benefits Charge
- 4.4 Coal Production: GHG emission reduction incentives, support, or requirements
- 4.6 Low-GHG Hydrogen production incentives and support
- 4.7 Oil and gas tax as a funding mechanism for GHG reduction options or R&D
- 6.5 Landfill Gas Recovery
- 6.6 Waste to Energy
- 6.7 N₂O Reduction Co-benefit

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Cross Cutting (CC) Issues

1. Greenhouse Gas Inventories and Forecasts
2. State Greenhouse Gas Reporting and Registry
3. Statewide Greenhouse Gas Reduction Goals or Targets
4. The State's Own Greenhouse Gas Emissions (Lead-by-Example)
5. Comprehensive Local Government Climate Action Plans
6. State Climate Public Education and Outreach
7. Optimizing Best-Scale of Reduction Policies
8. Creative Financial Mechanisms
9. Adaptation and Vulnerability
10. Climate-Change Related Economic Development
11. Regulatory Realignment in Government to Encourage Constructive Climate Action

CC 2nd Tier Options

- None

AR Inventory & Forecast Update

- Expect to complete update to initial draft incorporating state data by April 15
- TWGs will review, suggest revisions if/as needed and provide assistance
- GCGW will review and consider revisions at Meetings 6 & 7

Next Steps

- TWGs
 - Develop straw proposals for policy design, and related policies/programs in place
 - Review and continue updates to the draft inventory and forecast
- GCGW
 - Review and approve straw proposals for policy design, and related policies/programs in place
 - Review and approve proposed revisions to the inventory and forecast with modifications if/as needed

Next Commission Meeting

- Agenda:
 - Review and approve straw proposals for policy design and related policies/programs in place, with modifications as needed
 - Review TWG suggested updates to Arkansas' draft GHG inventory and forecast
 - Discuss and prepare for quantification of options
- May 19, Little Rock



Announcements