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**Cross-Cutting Issues (CC)
Technical Work Group**

Summary List of Pending Priority Policy Options for Analysis

	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value 2009–2025 (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2015	2025	Total 2009–2025			
CC-1	Greenhouse Gas Inventories and Forecasts	<i>Not Quantified</i>					Pending
CC-2	State Greenhouse Gas Reporting and Registry	<i>Not Quantified</i>					Pending
CC-3	Statewide Greenhouse Gas Reduction Goals or Targets	<i>Not Quantified</i>					Pending
CC-4	The State's Own Greenhouse Gas Emissions (Lead-by-Example)	<i>Not Quantified</i>					Pending
CC-5	Comprehensive Local Government Climate Action Plans	<i>Not Quantified</i>					Pending
CC-6	State Climate Public Education and Outreach	<i>Not Quantified</i>					Pending
CC-7	Optimizing Best-Scale of Reduction Policies	<i>Not Quantified</i>					Pending
CC-8	Creative Financial Mechanisms	<i>Not Quantified</i>					Pending
CC-9	Adaptation and Vulnerability	<i>Not Quantified</i>					Pending
CC-10	Climate-Change Related Economic Development	<i>Not Quantified</i>					Pending
CC-11	Regulatory Realignment in Government to Encourage Constructive Climate Action	<i>Not Quantified</i>					Pending

Note: The numbering used to denote the above pending priority policy options is for reference purposes only; it does not reflect prioritization among these important draft policy options.

CC-1. Greenhouse Gas Inventories and Forecasts

Policy Description

Greenhouse gas (GHG) emission inventories and forecasts are essential for understanding the magnitude of all emission sources and sinks (both man-made and natural), the relative contribution of various types of emission sources and sinks to total emissions, and the factors that affect trends over time. Inventories and forecasts help to inform state leaders and the public on statewide trends, opportunities for mitigating emissions or enhancing sinks, and verifying GHG reductions associated with implementation of the Governor's Commission on Global Warming's (GCGW's) recommendations to the Governor.

Policy Design

To be determined (TBD)

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-2. State Greenhouse Gas Reporting and Registry

Policy Description

Greenhouse gas (GHG) reporting reflects the measurement and reporting of GHG emissions to support tracking and management of emissions. GHG reporting can help sources identify emission reduction opportunities and reduce risks associated with possible future GHG mandates by moving “up the learning curve.” Tracking and reporting of GHG emissions can also help in the construction of periodic state GHG inventories. GHG reporting is a precursor for sources to participate in GHG reduction programs, opportunities for recognition, and a GHG emission reduction registry, as well as to secure “baseline protection” (i.e., credit for early reductions).

A GHG registry enables recording of GHG emission reductions in a central repository with “transaction ledger” capacity to support tracking, management, and “ownership” of emission reductions; establish baseline protection; enable recognition of environmental leadership; and/or provide a mechanism for regional, multistate, and cross-border cooperation. Properly designed registry structures also provide a foundation for possible future trading programs.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-3. Statewide Greenhouse Gas Reduction Goals or Targets

Policy Description

The GCGW is to recommend actions that can be taken in Arkansas to reduce the state's contribution and vulnerability to climate change. Consistent with this charge, the establishment of a statewide goal or target can provide vision and direction, a framework within which implementation of GCGW policy recommendations can proceed effectively, and a basis of comparison for regular periodic assessments of progress. GHG reduction goals or targets recommended by the GCGW should be consistent with the parallel goal of an efficient, robust Arkansas economy. In pursuit of similar climate progress, at least 18 other states have established GHG reduction goals or targets.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-4. The State's Own Greenhouse Gas Emissions (Lead-by-Example)

Policy Description

State and local government entities are responsible for providing a multitude of public services that are delivered through very diverse operations and result in wide-ranging GHG emission activities. Because of this role, they have the opportunity to model a diverse array of GHG emission reduction activities for a wide variety of clients. State and local government entities should take the lead in demonstrating that reductions in GHG emissions can be achieved by analyzing current operations, identifying significant GHG sources, and implementing changes in technology, procedures, behavior, operations, and services provided.

State government can also encourage and/or provide incentives to reduce GHG emissions by others in a variety of ways. One of the most important is to link GHG reductions to energy expenditures, and demonstrate that reduction in one leads to reduction in the other.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-5. Comprehensive Local Government Climate Action Plans

Policy Description

Several local governments in Arkansas have already taken the initiative to address climate change in their communities. Eureka Springs, Fayetteville, Little Rock, and North Little Rock have signed the U.S. Mayors Climate Protection Agreement.¹ The GCGW strongly encourages all local communities in Arkansas to develop plans to mitigate GHG emissions. Additionally, the GCGW sees a strong role for the state government, local government, and non-governmental organizations (NGOs) in promoting GHG reduction initiatives by local governments and in serving as a clearinghouse for local government initiatives.

The state government, local government associations, and others could help spread the successful actions and efforts of some local jurisdictions broadly to others through several means, such as workshops and conferences, a Web site clearinghouse, education and outreach to public and municipal officials, recognizing local government GHG emission reduction achievements, etc.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

¹ See <http://www.seattle.gov/mayor/climate/>.

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-6. State Climate Public Education and Outreach

Policy Description

A well-articulated, meaningful, broadly implemented and sustained educational process is the means to achieve effective and durable actions to mitigate and adapt to climate change. Much of the response to climate change requires a disciplined alteration in lifestyle that shares many things in common with a healthy lifestyle. Furthermore, people have to be motivated to attempt and succeed with basic changes in lifestyles. Individual responsibility, community action, conservation, and prevention are the principles upon which change of this magnitude is accomplished. It is no less than a shift in culture. The effort will benefit all aspects of society.

The educational process must define the basic aspects of climate change, including the evidence for cause-and-effect issues; it must specify the significance of climate change for the target audience and each individual; it must clarify and emphasize the role of the target audience and each of its members for a plan of action to mitigate and adapt to climate change; and it must relate the necessary changes in all aspects of people's lives and their basic beliefs and values—e.g., health, environment, and economic viability.

Public education and outreach programs must build upon existing efforts and institutions, avoid unnecessary duplication, and promote best practices. The sustained success of policy actions proposed by the GCGW, as well as those that might evolve in the future, depends upon lifestyle changes resulting from education, experience, and practice.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-7. Optimizing Best-Scale of Reduction Policies

Policy Description

TBD

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-8. Creative Financial Mechanisms

Policy Description

Allocation of some resources under existing state programs and initiatives can be targeted to achieving state climate goals. However it is likely that additional resources may also be needed to implement the recommendations in the state plan. Therefore, the state and others will need to consider seeking and stimulating additional funding and investment in climate solutions identified in the state plan. Initiatives could include, but not limited to, establishing, promoting, and utilizing creative financing mechanisms for projects and products that reduce GHGs. Examples could include establishment of a “State Revolving Loan Fund” to finance products and services with low-carbon intensity, promote the use of “Green products” procurement preferences, and establish and promote greener buying cooperatives.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-9. Adaptation and Vulnerability

Policy Description

Due to the buildup of GHGs in the atmosphere that has already occurred, Arkansas will experience some effects of climate change for years to come, even if immediate actions are taken to reduce GHG emissions. Climate impacts will most likely affect Arkansas's people, land, economy, and quality of life in many ways. Thus, it is essential that the state develop a plan to adapt to the projected impacts of climate change while mitigation efforts to lower atmospheric concentrations are underway.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-10. Climate-Change Related Economic Development

Policy Description

Successful state GHG reduction efforts are highly dependent on active participation of the business community, particularly in the energy, agriculture, transportation, development and manufacturing sectors. The intent of this policy is to encourage and facilitate the involvement of funding and investment sources, business interests, and entrepreneurs in pursuing business opportunities associated with GHG reductions and global warming solutions as quickly and as significantly as possible. The creation of a clearinghouse-like entity may make it possible to match technology developers and other climate solution entrepreneurs with necessary financing more effectively and expeditiously. As a result, a state's ability to identify and secure early business opportunities associated with climate change may be enhanced, increasing its global competitive advantage and job creation within the state.

Potential funding sources include philanthropic organizations, high net worth individuals, or others interested in supporting innovative, environmentally effective market solutions. Recognizing that fortunes are likely to be made in the "new energy economy," for-profit investors, pension funds, mutual funds, and/or venture capitalists may be looking to fund similar business opportunities. Although technology entrepreneurs are often cited as offering potential global warming solutions, equally progressive solutions may lie in the fields of law, accounting, marketing, production, and even government relations and lobbying. The objective of this policy option is to leverage a state's specific talents for global warming solutions into securing the business opportunities and market advantages that well-supported "early bird" efforts are likely to reap in a carbon-constrained world.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

Key Assumptions: [TBD, as approved by the TWG]

Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

Pending – [until GCGW moves to final agreement at meeting #7 or #8]

Level of Group Support

TBD – [blank until GCGW meeting #7 or #8]

Barriers to Consensus

TBD – [blank until final vote by the GCGW]

CC-11. Regulatory Realignment in Government to Encourage Constructive Climate Action

Policy Description

State government agencies can lead-by-example in efforts to control GHG emissions by ensuring that their policies and regulations are climate-friendly. Each state agency should conduct a review of its policies and regulations to identify opportunities for realigning them to remove impediments to climate-friendly options. In addition, agencies should identify opportunities to utilize incentives to minimize the carbon footprint of state government as well as entities affected by state government regulations and policies (e.g., local governments and the private sector). Examples may include, but are not limited to, coordination and alignment between state agencies' policies and programs, reduced costs and/or timeframes for greener permits, "performance-based" regulations, and reducing or eliminating "throughput incentives" so that regulated utilities are compensated for demand-side reductions, not just supply-side activities.

Policy Design

TBD

Goals: TBD – [as approved by the TWG]

Timing: TBD – [as approved by the TWG]

Parties Involved: TBD – [as approved by the TWG]

Other: TBD – [as needed and approved by the TWG]

Implementation Mechanisms

TBD – [as approved by the TWG]

Related Policies/Programs in Place

TBD – [as needed and approved by the TWG]

Type(s) of GHG Reductions

TBD – [as needed and approved by the TWG]

Estimated GHG Reductions and Costs or Cost Savings

TBD – [as approved by the TWG]

Data Sources: [TBD, as approved by the TWG]

Quantification Methods: [e.g., Full life cycle analysis with supply/demand equilibrium adjustments on TWG approval]

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Key Uncertainties

TBD – [as needed and approved by the TWG]

Additional Benefits and Costs

TBD – [as needed and approved by the TWG]

Feasibility Issues

TBD – [as needed and approved by the TWG]

Status of Group Approval

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Level of Group Support

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Barriers to Consensus

TBD – [blank until final vote by the GCGW]