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Memo

To: Kansas Energy and Environmental Policy Advisor Group
From: The Center for Climate Strategies
CC: Kansas Governor's Office
Technical Work Group Members
Subject: Preparation for the Third Meeting of the Kansas Energy and Environmental Policy Advisor Group
Date: December 9, 2008

At our third meeting of the Kansas Energy and Environmental Policy Advisory Group (KEEP) on Tuesday, December 9, 2008, we will focus on review and approval of the draft "priority for analysis" policy options and updates to the draft Kansas greenhouse gas (GHG) emissions inventory and forecast. Based on this discussion and any adjustments made by the KEEP, the Technical Work Groups (TWGs) will begin work on straw proposals for future development and quantification of draft policy options. We will also discuss a draft Interim Report from the KEEP to Governor Sebelius.

As preparation for our meeting, please review the attached lists of TWG suggested draft policy option "priorities for analysis" and other background documents posted to the project website at: www.ksclimatechange.us.

In terms of overall progress, the KEEP has completed key milestones since its launch, including:

- Identification of a full range of potential Kansas options for mitigation of GHG emissions, including about 346 possible state actions.
- TWG identification, by balloting, of 47 initial priorities for analysis of draft policy options.

The next stages of the KEEP process will include completion of the following milestones:

- Completion of updates to the initial statewide inventory and forecast of GHG emissions and start of the review process.
- Approval of a full range of initial priorities for analysis of draft policy options at our third meeting.
- Formulation of "straw proposals" for the design of these initial draft policy options for consideration by the KEEP at its fourth meeting.

- Review and revision of policy option design, analysis, and draft options as needed during TWG calls and meetings.
- Final approval of remaining KEEP policy option recommendations at our fifth and sixth meetings.
- Final approval of the statewide inventory and forecast of GHG emissions by the final meeting.

Summary of KEEP Progress and Next Steps:

Status of Draft Policy Options	
Original Number of Potential Options Presented to the KEEP from the CCS Catalog of State Actions	300+
Updated Number of Potential Options on the CCS Catalog of States Actions, Including KEEP Additions	346
Current Number of Draft Potential Priority Policy Options for Analysis	47
• Agriculture, Forestry and Waste	6
• Energy Supply	11
• Residential, Commercial, and Industrial	11
• Transportation and Land Use	10
• Cross Cutting Issues	9
Next Steps	
Approve Straw Proposals for Draft Policy Option Design	KEEP Meeting #4
Present First Round of Analysis of Draft Policy Options and Identify Early Consensus Recommendations	KEEP Meeting #5
Approve Final KEEP Policy Option Recommendations	KEEP Meetings #5 and 6

Table 1. KEEP Agriculture, Forestry, and Waste Management Technical Work Group

Summary List of Recommended Priority Policy Options for Analysis

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
Proposed Tier 1 Options and Sub-Options		
AFW-1	Expanded Utilization of Biomass Feedstocks for Electricity, Heat, or Steam Production	1.1 Expanded Utilization of Agriculture Biomass Feedstocks for Electricity, Heat, or Steam Production. 1.2 Improved Commercialization of Biomass Conversion Technologies. (Was AFW-1.7) 1.3 Bioenergy Research. (Was AFW-1.8) 1.4 Expanded Utilization of MSW Waste Biomass Feedstocks for Electricity, Heat, or Steam Production. (Was AFW-9.1) 1.5 Expanded Utilization of Rangeland & Forest Biomass Feedstocks for Electricity, Heat, or Steam Production. (Was AFW-6.1)
AFW-2	In-State Liquid Biofuels Production	2.1 In-State Liquid Biofuels Production (Agriculture Feedstocks). (Was AFW-1.2) 2.2 In-State Liquid Biofuels Production (Forestry Feedstocks). (Was AFW-6.2) 2.3 In-State Liquid Biofuels Production (Waste Feedstocks). (Was AFW-9.2) 2.4 Integrated Bioenergy Production. (Was AFW-1.4)
AFW-3	Promotion of Agricultural Practices That Achieve GHG Benefits	3.1 Soil Carbon Management. 3.2 Nutrient Management. 3.3 Technology Improvements To Increase Efficiency (Crop Production) 3.4 Water Management. 3.5 Promotion of Farming Practices That Achieve GHG Benefits. (Was AFW-5.2) 3.6 Technology Improvements To Increase Water Conservation. (Was AFW-2.3) 3.7 Perennial Crop Production.

AFW-4	Manure Management and Waste Energy Utilization	<p>4.1 Manure Management and Utilization. (Was AFW-2.1)</p> <p>4.2 Manure Digesters / Other Waste Energy Utilization. (Was AFW-1.3)</p>
AFW-5	Forest and Rangeland Carbon Protection and Management	<p>5.1 Land-Use Management That Promotes Permanent Cover – State Action. (Was AFW-4.1)</p> <p>5.2 Land-Use Management That Promotes Permanent Cover – State Input on Federal Policy. (Was AFW-4.2)</p> <p>5.3 Rangeland and Forest Management for Carbon Sequestration. (Was AFW-7.4)</p> <p>5.4 Preserve Open Space / Agricultural Land. (Was AFW-4.3)</p> <p>5.5 Rangeland and Forest Protection – Reduced Clearing and Conversion to Non-Forest Cover. (Was AFW-7.1)</p>
AFW-6	Methane and Biogas Energy Programs	<p>6.1 Landfill Methane Energy Programs. (Was AFW-10.3)</p> <p>6.2 Methane and Biogas Energy Programs. (Was AFW-10.2)</p> <p>6.3 Promotion of Bioreactor Technology (Advanced Municipal Solid Waste Management Practices). (Was AFW-9.4)</p> <p>6.4 Flare Landfill Methane at Non-NSPS (Smaller) Sites. (Was AFW-10.1)</p>
Proposed Tier 2 Sub-Options		
	Energy Efficiency Improvements at Wastewater Treatment Plants	Energy Efficiency Improvements at Wastewater Treatment Plants. (Was AFW-11.2)
	Water Conservation Programs	Lower Waste Processing Needs (Lower Water Consumption, Waste Production). (Was AFW-11.3)
	Prioritize Environmental Remediation Actions for GHG Benefit.	Prioritize Environmental Remediation Actions for GHG Benefit. (Was AFW-4.4)

GHG = greenhouse gas; MSW = municipal solid waste.

Table 2. KEEP Energy Supply Technical Work Group**Summary List of Recommended Priority Policy Options for Analysis**

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
Proposed Tier 1 Options and Sub-Options		
ES-1	Advanced Fossil Fuel Technology Incentives, Support, or Requirements	1.1 Advanced Fossil Fuel Technology (e.g., IGCC, CCSR, Advanced Pulverized Coal, CFB) Incentives, Support, or Requirements (was ES-4.1)
ES-2	Nuclear Capacity	2.2 New Nuclear Capacity (was ES-4.2) 2.3 Relicensing/Up-rating Existing Nuclear Power (was ES-4.3)
ES-3	Transmission System Upgrading	3.1 Transmission System Upgrading (was ES-7.1)
ES-4	Renewable Portfolio Standard (RPS)	4.1 Renewable Portfolio Standard (RPS) (was ES-2.1)
ES-5	CCSR Incentives, Requirements and/or Enabling Policies	5.1 CCSR Incentives, Requirements and/or Enabling Policies (Administration, Regulation, Liability, Incentives) (was ES-6.1)
ES-6	Technology-Focused Initiatives, Including Grant Programs	6.1 Technology-Focused Initiatives (Biomass Co-Firing, Energy Storage for Renewable Energy Generation, Fuel Cells, etc.), Including Grant Programs (was ES-2.7)
ES-7	R&D for CCSR	7.1 R&D for CCSR (was ES-6.2)
ES-8	Technology Research and Development	8.1 Technology Research and Development (was ES-1.6)
ES-9	Green Power Purchases and Marketing	9.1 Green Power Purchases and Marketing (was ES-2.4)
ES-10	Energy Efficiency Resource Portfolio Standard	10.1 Energy Efficiency Resource Portfolio Standard (was ES-3.1)
ES-11	General Education to Public on Energy Supply Options	11.1 General Education to Public on Energy Supply Options (was ES-8.1)
Proposed Tier 2 Sub-Options		
	GHG Cap and Trade (was ES-1.1)	

	Carbon/GHG Tax (was ES-1.2)
	Generation Performance Standards and/or Mitigation Requirements for Electricity (was ES-1.3)
	Integrated Resource Planning (IRP) (was ES-1.4)
	Grid-Based Renewable Energy Regulations, Incentives and/or Barrier Removal (was ES-2.2)
	Distributed Renewable Energy Incentives and/or Barrier Removal (was ES-2.3)
	Pricing Strategies to Promote Renewable Energy (e.g., Net Metering) (was ES-2.5)
	Research and Development for Renewable Technologies (was ES-2.8)
	Utility Energy Efficiency Incentives or Other Barrier Removal (was ES-3.2)
	Consumer Energy Efficiency Incentives or Other Barrier Removal (was ES-3.3)
	Combined Heat and Power (CHP) Incentives and/or Barrier Removal (was ES-3.4)
	Co-Location or Integration of Energy-Producing Facilities (was ES-3.6)
	Efficiency Improvements and Repowering Existing Plants (was ES-4.4)
	Technology-Focused Initiatives (was ES-4.5)
	Use CO ₂ for Enhanced Oil Recovery (was ES-6.3)
	Reduction of Transmission and Distribution Line Losses (was ES-7.2)
	Smart Grid Systems (was ES-7.8)
	Work Force Development Education to Support Energy Supply Options and Economic Development (was ES-8.2)

IGCC = Integrated Gasification and Combined Cycle; CCSR = Carbon Capture and Storage or Reuse; CFB = Circulating Fluidized Bed; GHG = Greenhouse Gas

Table 3. Residential, Commercial and Industrial (RCI) Sector Technical Work Group

Summary List of Recommended Priority Policy Options for Analysis

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
Proposed Tier 1 Options and Sub-Options		
RCI-1	Utility Demand-Side Management Programs	1.1 Utility Demand-Side Management Programs for Electricity 1.2 Utility Demand-Side Management for Natural Gas, Propane, and Fuel Oil
RCI-2	Improve Building Codes for Energy Efficiency and Support Training for Their Successful Implementation	2.1 Improved Building Codes for Energy Efficiency 2.2 Training of Building Code and Other Officials in Energy Code Enforcement 2.3 Training and Education for Builders and Contractors (e.g., Heating, Ventilation, and Air Conditioning [HVAC] Sizing, Duct Sealing) (was RCI-2.9) 2.4 Energy Management Training/Training of Building Operators (was RCI-2.10) 2.5 Require or Encourage High-Efficiency Equipment in New Construction and Retrofits (was RCI-3.3)
RCI-3	Consumer Education	3.1 Consumer Education Programs (was RCI-4.1) 3.2 Energy Efficiency School Program (was RCI-4.2)
RCI-4	Reduced-Cost or Free Residential Energy Audits	4.1 Reduced-Cost or Free Residential Energy Audits (was RCI-1.6)
RCI-5	Promote and Develop Incentives for Energy-Efficient Private-Sector Building Design and Construction	5.1 Promotion of and Incentives for Improved Design and Construction (e.g., LEED, Green Buildings) in the Private Sector (was RCI-2.6) 5.2 Feebate Program To Encourage Energy Efficiency in Building Design (was RCI-2.7)
RCI-6	Develop Incentives to Promote Implementation of Customer-Sited Renewable Energy Systems Through Effective Net Metering and Other Means	6.1 Net Metering for Distributed Generation (was RCI-5.2) 6.2 Incentives to Promote Implementation of Renewable Energy Systems (was RCI-6.1)

RCI-7	Develop Financial and Funding Mechanisms to Support Energy Efficiency Improvements in the RCI Sectors	<p>7.1 Energy Efficiency Funds (e.g., Public Benefits Funds) Administered by State Agency, Utility, or Third Party (e.g., Energy Trust) (was RCI-1.4)</p> <p>7.2 Low-Cost Loans for Energy Efficiency Improvements (was RCI-1.9)</p> <p>7.3 Develop Investment Tax Credits for Energy Efficiency Improvements in Industrial or Commercial Facilities (was RCI-1.13)</p> <p>7.4 Incentives and Resources to Promote Combined Heat and Power (was RCI-6.2)</p>
RCI-8	Incentives for Retrofit of Existing Residential Buildings	8.1 Incentives for Retrofit of Existing Residential Buildings (was RCI-2.8)
RCI-9	Provide Reduced-Cost Energy Audits and Integrated Lean Manufacturing and Energy Technical Assistance for Industrial and Commercial Sectors	<p>9.1 Reduced-Cost Energy Audits or Technical Assistance for Commercial Businesses (was RCI-1.7)</p> <p>9.2 Reduced-Cost Energy Audits or Technical Assistance for Industry Sectors (was RCI-1.8)</p> <p>9.3 Encourage Integrated Lean Manufacturing and Energy Use Reduction Technical Assistance to Kansas Industrial and Commercial Facilities (was RCI-1.12)</p>
RCI-10	Require or Encourage New State Government Buildings to Have a Small Greenhouse Gas Emissions Footprint, and Encourage Existing Government Buildings to Improve Energy Efficiency	<p>10.1 Reduce Energy Use by 10% or More in State-Owned Buildings (was RCI-1.11)</p> <p>10.2 Improved Design and Construction, "Government Lead by Example" (was RCI-2.3)</p> <p>10.3 Require or Encourage New Government Buildings in Kansas to Meet LEED Gold Certification Requirements or Equivalent (was RCI-2.11)</p> <p>10.4 State Building Carbon-Neutral Requirement (was RCI-2.16)</p>
RCI-11	Green Power Purchasing by Customers	11.1 Green Power Purchasing by Customers (was RCI-5.1)

Proposed Tier 2 Sub-Options	
	Non-Utility Demand-Side Management Programs for Electricity (was RCI-1.3)
	Regional Market Transformation Alliance (was RCI-1.5)
	Create Incentives and Targets for Retrofit of Existing Commercial or Industrial Buildings (was RCI-2.12)
	Develop a Modified Cap-and-Trade Program for Commercial Buildings in Kansas (was RCI-2.13)
	Explore Advanced Metering Technologies That Can Monitor Energy Usage and Allow Homeowners and Managers to Adjust Energy Use Remotely (was RCI-2.14)

	Municipal Energy Management (was RCI-2.17)
	Support for Federal-Level Appliance and Electronic Equipment Efficiency Standards (was RCI-3.2)
	In-Home Energy/Power Displays (was RCI-4.4)
	Create a High-Tech Research and Development Center That Focuses on Renewable Energy and Energy Efficiency (was RCI-4.5)
	Time-of-Use Rates (was RCI-5.3)
	Tiered (Increasing-Block) Rates for Electricity and Natural Gas Use (was RCI-5.4)
	Incentives for Passive Solar Heating (was RCI-6.4)
	Solar Hot Water Heating (was RCI-6.7)
	Support for Switching to Less Carbon-Intensive Fuels (Coal and Oil to Natural Gas or Biomass) (was RCI-8.1)
	Industry-Specific Emissions Cap-and-Trade Program (was RCI-8.2)
	Provide Tools and Information for Residents, Businesses, and Communities To Perform GHG Inventories (was RCI-8.5)
	Energy Efficiency Reinvestment Funds (was RCI-9.3)

GHG = greenhouse gas; LEED = Leadership in Energy and Environmental Design.

Table 4. KEEP Transportation and Land Use Technical Work Group

Summary List of Recommended Priority Policy Options for Analysis

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
Proposed Tier 1 Options and Sub-Options		
TLU-1	Enforce Speed Limits	1.1 Enforce (Passenger Vehicle) Speed Limits (was TLU-1.2.1) 1.2 Enforce (Heavy-Duty Vehicle) Speed Limits (was TLU-3.2.2)
TLU-2	Support Stronger CAFE Standards and GHG Emission Regulations	2.1 Support Stronger Federal and Multi-state CAFE Standards and GHG Emission Regulations (was TLU-1.1.5)
TLU-3	Low-GHG Fuel Standard	3.1 Low-GHG Fuel Standard (e.g., renewable) (was TLU-1.4.1) 3.2 Low-GHG for State Fleets (e.g., CNG, Biodiesel) (was TLU-1.4.2)
TLU-4	Improve and Expand Transit	4.1 Improve Transit Service (Frequency, Convenience, and Quality) (was TLU-2.2.2) 4.2 Expand Transit Infrastructure (Light Rail, Bus, Bus Rapid Transit) (was TLU-2.2.4) 4.3 Transit Prioritization (Signal Prioritization, HOV Lanes) (was TLU-2.2.5) 4.4 Transit Pricing Incentives (was TLU-2.3.4) 4.5 Create Regional Multimodal Transportation Centers (was TLU-2.2.7)
TLU-5	Van Pooling and Car Pooling	5.1 Van Pooling and Car Pooling (was TLU-2.2.10)
TLU-6	Improve and Increase Rail Freight Movements	6.1 Shift Freight Movements From Truck to Rail (was TLU-3.3.4) 6.2 Increase Short-Line Rail Capacity and Address Rail Freight System Bottlenecks (was TLU-3.3.3) 6.3 Promote Strategies to Ease the Movement of Freight in More GHG-Efficient Ways (was TLU-3.3.5)

TLU-7	Smart Growth	<p>7.1 Transit-Oriented Development (was TLU-2.1.12)</p> <p>7.2 Provide Technical and Financial Support to Local Agencies (was TLU-2.1.4)</p> <p>7.3 Smart Growth Planning, Modeling, and Tools (was TLU-2.1.5)</p> <p>7.4 Targeted Open-Space Protection (was TLU-2.1.14)</p> <p>7.5 Balance Economic Development With Agriculture, Protection of Natural Resources, and Preservation of Rural Character (was TLU-2.1.15)</p>
TLU-8	Telecommuting	<p>8.1 Telecommute, Live Near Your Work, and Compressed Work Week (was TLU-2.2.13)</p> <p>8.2 Require Government Agencies To Use Telecommuting (was TLU-2.2.14)</p> <p>8.3 Telecommuting Centers, Support, and Incentives (was TLU-2.2.15)</p>
TLU-9	Efficient Vehicle Incentives	<p>9.1 Tax Credits for Efficient Vehicles (was TLU-1.3.4)</p> <p>9.2 Feebates (State-Specific or Regional) (was TLU-1.3.2)</p> <p>9.3 Vehicle Scrappage (was TLU-1.3.5)</p> <p>9.4 Procurement of Efficient Fleet Vehicles (Public, Private, or Other) (was TLU-3.4.1)</p> <p>9.5 Incentives To Retire or Improve Older, Less Efficient Vehicles (was TLU-3.4.2)</p>
TLU-10	Improved Passenger Rail Service	10.1 Improved Passenger Rail Service (was TLU-4.5)
Proposed Tier 2 Sub-Options		
	Low-Emission Vehicles	<p>New Vehicle Standards: Tailpipe GHG and Fuel Economy (was TLU-1.1.1)</p> <p>ZEV/LEV II Implementation (was TLU-1.1.2)</p>
	Increase Bike and Pedestrian Infrastructure	<p>Bike and Pedestrian Infrastructure (was TLU-2.2.8)</p> <p>Bicycle Transportation (e.g., Rails to Trails) (was TLU-2.2.19)</p>
	Park-and-Ride Lots	Park-and-Ride Lots (was TLU-2.2.11)
	Car Sharing	Car Sharing (was TLU-2.2.12)
	Hybrid Buses	Hybrid Buses (was TLU-2.2.18)
	Reserve Parking Spaces for High-Occupancy Vehicles and Car-Share Programs	Reserve Parking Spaces for High-Occupancy Vehicles and Car-Share Programs (was TLU-2.3.6)

	Vehicle Maintenance and Driver Training	Vehicle Maintenance and Driver Training (was TLU-1.2.2)
	Statewide Growth Management Plan	Statewide Growth Management Plan (was TLU-2.1.1)
	GHG Evaluations/Reductions in Planning/Policies	Include GHG Evaluations in State Policies (was TLU-2.1.2) Shape Investment to Maximize GHG Reductions (was TLU-2.1.3)
	Land Use, Zoning, Tax, and Building Code Reform	Land Use, Zoning, Tax, and Building Code Reform (was TLU-2.1.6)
	Free Downtown Parking to Car Poolers	Free Downtown Parking to Car Poolers (was TLU-2.3.5)
	Benefits for Low-GHG Vehicles	Benefits for Low-GHG Vehicles (Preferential Parking, Use of HOV Lanes) (was TLU-2.3.7)
	Research the Impact of GHG Emission Reduction Strategies on Transportation Revenue Sources	Research the Impact of GHG Emission Reduction Strategies on Transportation Revenue Sources (was TLU-2.3.18)
	Use Market Approaches or LEED for Neighborhood Development	Use Market Approaches or LEED for Neighborhood Development (was TLU-2.3.22)
	High-Speed Rail	High-Speed Rail (was TLU-4.1)
	Improved Transportation System Management*	Improved Transportation System Management (e.g., Traffic Signal Synchronization and Intelligent Transportation Systems) (was TLU-1.2.3)
	Anti-Idling Measures*	Enforce Anti-Idling (was TLU-3.2.7) Passenger Vehicle Idling Restrictions (was TLU-1.2.6)

* Originally classified as a low-priority item, this proposed option received special request from one or more Technical Work Group members to include on the medium priority list for consideration by the KEEP Advisory Group.

CAFE = corporate average fuel economy; CNG = compressed natural gas; GHG = greenhouse gas; HOV = high-occupancy vehicle; LEED = Leadership in Energy and Environmental Design; LEV = low-emission vehicle; ZEV = zero-emission vehicle.

Table 5. KEEP Cross-Cutting Issues Technical Work Group

Summary List of Recommended Priority Policy Options for Analysis

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
Proposed Tier 1 Options and Sub-Options		
CCI-1	GHG Inventories, Forecasting, Reporting, and Registry (Combined CCI-1, CCI-2, and CCI-3)	1.1 Establish and fund a state GHG emission inventory function. 1.2 Establish and maintain a state GHG emission forecasting function. 1.3 Establish or adopt a GHG emissions inventory function. (Was CCI-2.1) 1.4 Provide assistance in reporting GHG emissions. (Was CCI-2.2) 1.5 Participate in the development of a multistate GHG emissions registry and/or similar federal initiatives. (Was CCI-3.1) 1.6 Provide assistance in registering GHG emissions. (Was CCI-3.2)
CCI-2	Statewide GHG Reduction Goals and Targets (Was CCI-4)	2.1 Establish goals and targets for statewide GHG emission reductions (Was CCI-4.1) 2.2 Institute an accountability program to measure and report progress in reducing GHG emissions. (Was CCI-4.2)
CCI-3	State, Regional, and Local Governments and Academic Institutions GHG Emissions (Lead by Example) (Combined CCI-5 and CCI-6)	3.1 Lead by example by establishing targets for reductions in state GHG emissions. (Was CCI-5.1) 3.2 Apply pollution prevention principles to GHG emission reductions. (Was CCI-5.8) 3.3 Promote development of comprehensive climate action plans by regional and local governments. (Was CCI-5.10) 3.4 Promote development of comprehensive climate action plans by academic institutions. (Was CCI-5.11)

<p>CCI-4</p>	<p>Public Education and Outreach (Was CCI-7.1–CCI-7.6) (The proposed design of this policy option is structured according to specific target audiences. The Cross-Cutting Issues Technical Work Group will seek the KEEP's advice as to whether this is the best design for this policy option.)</p>	<p>4.1 State Government Education and Outreach Actions. 4.2 Target Audience: Policymakers. 4.3 Target Audience: Future Generations. 4.4 Target Audience: Community Leaders and Community-Based Organizations. 4.5 Target Audience: General Public. 4.6 Target Audience: Industrial and Economic Sectors.</p>
<p>CCI-5</p>	<p>Participate in Regional and Multistate GHG Reduction Efforts, Including Market-Based GHG Reduction Policies (Combined CCI-8, CCI-15 and CCI-11)</p>	<p>5.1 Establish an emissions cap-and-trade program. (Was CCI-8.1) 5.2 Establish carbon tax incentives and disincentives. (Was CCI-8.2) 5.3 Explore other regional opportunities, both public and private. (Was CCI-8.3) 5.4 Purchase carbon credits associated with the state's own activities. (Was CCI-15.1) 5.5 Function as a purveyor of credits to others, or act as a certification entity of other carbon exchanges. (Was CCI-15.2) 5.6 Consider establishing a "Market Advisory Group" consisting of experts to provide guidance to the state on the design of market-based compliance programs to manage GHG emissions. Look at the California system as a potential model. (Was CCI-15.3) 5.7 Identify opportunities for the state to join other state or regional GHG reduction efforts. (Was CCI-11.1) 5.8 Implement regional climate reduction initiatives. (Was CCI-11.2)</p>
<p>CCI-6</p>	<p>Seek Funding for Implementation of KEEP Recommendations (Was CCI-9)</p>	<p>6.1 Evaluate and recommend funding for and investment in climate solutions recommended by KEEP in the final Climate Action Plan. (Was CCI-9.1) 6.2 Develop or utilize accountability mechanisms to measure the progress of funding investments. (Was CCI-9.2)</p>

CCI-7	Adaptation and Vulnerability (Was CCI-10)	<p>7.1 Undertake a comprehensive planning effort to assess and address the state, local, and regional vulnerability to climate change and adaptation opportunities. (Was CCI-10.1)</p> <p>7.2 Identify several major sectors of the Kansas economy that are particularly vulnerable to climate impacts, and develop and incorporate adaptation measures into existing emergency plans and other policies. Examples might be the Insurance Commission, Division of Emergency Management, Department of Agriculture, Department of Transportation, Kansas National Guard, and possibly transportation infrastructure. (Was CCI-10.2)</p>
CCI-8	Encourage the Creation of a Business-Oriented Organization to Facilitate Investment in Climate-Related Business Opportunities and to Share Information and Strategies, Recognize Successes, and Support Aggressive GHG Reduction Goals (Combined CCI-12 and CCI-13)	8.1 Promote the development of green jobs in Kansas. (Was CCI-12.2)
CCI-9	Dedicate Greater Public Investment in Climate Data and Analysis (Was CCI-14)	9.1 Consider formation of a state climate data and analysis center to develop and provide objective, state-specific information regarding climate data. (Was CCI-14.1)
Proposed Tier 2 Sub-Options		

	<p>State, Regional, and Local Government and Academic Institutions GHG Emissions (Lead by Example) (Combined CCI-5 and CCI-6)</p>	<p>3.5 Identify or create an entity to coordinate and oversee ongoing state climate efforts. (Was 5.2)</p> <p>3.6 Disaggregate the state's own GHG emissions to the agency level, and require annual agency-specific reports on GHG reduction progress. (Was 5.3)</p> <p>3.7 Institute an accountability program to measure and report progress in reducing GHG emissions. (Was 5.4)</p> <p>3.8 Promote climate-neutral bonding and other funding mechanisms. (Was 5.5)</p> <p>3.9 Require evaluation of GHG emissions in environmental impact statements and similar environmental studies. (Was 5.6)</p> <p>3.10 Review sources of renewable energy. (Was 5.7)</p> <p>3.11 Promote carpooling, flex time, and telecommuting by state employees, and promote outreach and education about climate change. (Was 5.9)</p>
	<p>Encourage the Creation of a Business-Oriented Organization to Facilitate Investment in Climate-Related Business Opportunities and to Share Information and Strategies, Recognize Successes, and Support Aggressive GHG Reduction Goals (Combined CCI-12 and CCI-13)</p>	<p>8.2 Identify or create a business-oriented entity to enhance or expand business development opportunities in to reduce GHG emissions. (Combined CCI-12.1 and 13.1)</p>
	<p>Enhance and Encourage Economic Growth and Job Creation Opportunities Through Climate Change Mitigation</p>	<p>10.4 Promote climate-related businesses</p> <p>10.5 Create Green Business Clearinghouse</p>

Sample Draft Policy Option Template AFW-x Policies to Promote Ethanol Production

Policy Description

Trees, crops and other plants convert atmospheric carbon to carbohydrate or fiber stocks that can be converted to liquid fuels, such as ethanol. The use of these renewable, biological fuels can offset fossil fuel use and reduce associated net carbon dioxide emissions. Production incentives for the conversion of crops, forest sources, animal waste and other sources to ethanol through existing or new technologies can increase the level of ethanol use in future markets.

Policy Design

Goals: Several projects are being proposed in Arkansas that would result in the production of x million gallons of ethanol annually in Arkansas by 200x. Production incentives could increase this amount by x% beyond expected levels in 20xx, and x% by 20xx.

- **Timing:** Startup in 20xx and ramp up to higher levels in 20xx and 20xx, consistent with goals.
- **Parties Involved:** Suppliers of feedstocks, ethanol producers, and distributors. Associated agencies would include: xxx...
- **Other:** As needed, identify incentives that encourage the growing and supply of feedstocks and the utilization of ethanol in transportation markets across the state.

Implementation Mechanisms

TBD

Related Policies/Programs in Place

TBD

Types(s) of GHG Reductions

Net reduction in CO₂ emissions.

Estimated GHG Reductions and Costs (or Cost Savings)

TBD

- **Data Sources:** TBD
- **Quantification Methods:** Full life-cycle analysis with supply/demand equilibrium adjustments.
- **Key Assumptions:** TBD

Key Uncertainties

TBD

Additional Benefits and Costs

TBD

Feasibility Issues

TBD

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]