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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 Fourth Meeting of the Kansas Energy and Environmental Policy (KEEP) Advisory Group
Date: April 30, 2009

At our fourth meeting of the Kansas Energy and Environmental Policy Advisory Group (KEEP) on Thursday, April 30, 2009, we will focus on review and approval of the Straw policy descriptions and policy designs for each of the 49 policy options you approved at your last meeting. We will also review and approve 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 continue work in developing the policy option template for each option. Finally, the general approach to quantification of options will be presented for review and approval. As preparation for our meeting, please review the attached lists of TWG suggested draft Straw policy descriptions and policy designs for each policy option. These and other background documents are 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.
- KEEP approval of 49 policy options for development and further analysis.
- TWG development of Straw policy descriptions and policy designs for the 49 priority 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 process.
- KEEP approval of the 49 Straw proposed draft policy options at our fourth meeting.

- Development of the full draft policy option template for consideration by the KEEP at its fifth and sixth meetings.
- Prepare quantifications of selected policy options for consideration and approval by KEEP at our 5th and 6th 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 fifth 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 Further Development and Analysis	49
• Agriculture, Forestry and Waste	6
• Energy Supply	12
• Residential, Commercial, and Industrial	11
• Transportation and Land Use	11
• Cross Cutting Issues	9
Next Steps	
Approve Straw Proposals for Draft Policy Option Design	KEEP Meeting #4
Present First Round of Quantification 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 Pending Priority Policy Options for Analysis

Policy No.	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2015	2025	Total (2010–2025)			
AFW-1	Expanded Utilization of Biomass Feedstocks for Electricity, Heat, or Steam Production	<i>Not Yet Quantified</i>					Pending
AFW-2	In-State Liquid Biofuels Production	<i>Not Yet Quantified</i>					Pending
AFW-3	Promotion of Agricultural Practices That Achieve GHG Benefits	<i>Not Yet Quantified</i>					Pending
AFW-4	Manure Management and Waste Energy Utilization	<i>Not Yet Quantified</i>					Pending
AFW-5	Forest and Rangeland Carbon Protection and Management	<i>Not Yet Quantified</i>					Pending
AFW-6	Methane and Biogas Energy Programs	<i>Not Yet Quantified</i>					Pending

GHG = greenhouse gas; MMtCO₂e = million metric tons of carbon dioxide equivalent; \$/tCO₂e = dollars per metric ton of carbon dioxide equivalent.

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.

Table 2. KEEP Energy Supply Technical Work Group

Summary List of Pending Priority Policy Options for Analysis

Policy No.	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2015	2025	Total (2010–2025)			
ES-1	Advanced Fossil Fuel Technology Incentives, Support, or Requirements	<i>Not Yet Quantified</i>					Pending
ES-2	Nuclear Capacity	<i>Not Yet Quantified</i>					Pending
ES-3	Transmission System Upgrading	<i>Not Yet Quantified</i>					Pending
ES-4	Renewable Portfolio Standard	<i>Not Yet Quantified</i>					Pending
ES-5	CCSR Incentives, Requirements, and/or Enabling Policies	<i>Not Yet Quantified</i>					Pending
ES-6	Technology-Focused Initiatives, Including Grant Programs	<i>Not Yet Quantified</i>					Pending
ES-7	Research and Development for CCSR	<i>Not Yet Quantified</i>					Pending
ES-8	Technology Research and Development	<i>Not Yet Quantified</i>					Pending
ES-9	Green Power Purchases and Marketing	<i>Not Yet Quantified</i>					Pending
ES-10	Energy Efficiency Resource Standard	<i>Not Yet Quantified</i>					Pending
ES-11	General Education to Public on Energy Supply Options	<i>Not Yet Quantified</i>					Pending
ES-12	Efficiency Improvements and Repowering Existing Plants	<i>Not Yet Quantified</i>					Pending

CCSR = carbon capture and storage or reuse; GHG = greenhouse gas; MMtCO₂e = million metric tons of carbon dioxide equivalent; \$/tCO₂e = dollars per metric ton of carbon dioxide equivalent.

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.

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

Summary List of Pending Priority Policy Options for Analysis

Policy No.	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2015	2025	Total (2010–2025)			
RCI-1	Utility Demand-Side Management Programs	<i>Not Yet Quantified</i>					Pending
RCI-2	Improve Building Codes for Energy Efficiency and Support Training for Their Successful Implementation	<i>Not Yet Quantified</i>					Pending
RCI-3	Consumer Education	<i>Not Yet Quantified</i>					Pending
RCI-4	Reduced-Cost or Free Residential Energy Audits	<i>Not Yet Quantified</i>					Pending
RCI-5	Promote and Develop Incentives for Energy-Efficient Private-Sector Building Design and Construction	<i>Not Yet Quantified</i>					Pending
RCI-6	Develop Incentives to Promote Implementation of Customer-Sited Renewable Energy Systems Through Effective Net Metering and Other Means	<i>Not Yet Quantified</i>					Pending
RCI-7	Develop Financial and Funding Mechanisms to Support Energy Efficiency Improvements in the RCI Sectors	<i>Not Yet Quantified</i>					Pending
RCI-8	Incentives and Targets for Retrofit of Existing Residential, Commercial and Industrial Buildings	<i>Not Yet Quantified</i>					Pending
RCI-9	Provide Reduced-Cost Energy Audits and Integrated Lean Manufacturing and Energy Technical Assistance for Industrial and Commercial Sectors	<i>Not Yet Quantified</i>					Pending
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	<i>Not Yet Quantified</i>					Pending
RCI-11	Green Power Purchasing by Customers	<i>Not Yet Quantified</i>					Pending

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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.

Table 4. KEEP Transportation and Land Use Technical Work Group

Summary List of Pending Priority Policy Options for Analysis

Policy No.	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2015	2025	Total (2010–2025)			
TLU-1	Enforce Speed Limits	<i>Not Yet Quantified</i>					Pending
TLU-2	Support Stronger CAFE Standards and GHG Emission Regulations	<i>Not Yet Quantified</i>					Pending
TLU-3	Low-GHG Fuel Standard	<i>Not Yet Quantified</i>					Pending
TLU-4	Improve and Expand Transit	<i>Not Yet Quantified</i>					Pending
TLU-5	Van Pooling and Car Pooling	<i>Not Yet Quantified</i>					Pending
TLU-6	Improve and Increase Rail Freight Movements	<i>Not Yet Quantified</i>					Pending
TLU-7	Smart Growth	<i>Not Yet Quantified</i>					Pending
TLU-8	Telecommuting	<i>Not Yet Quantified</i>					Pending
TLU-9	Efficient Vehicle Incentives	<i>Not Yet Quantified</i>					Pending
TLU-10	Improved Passenger Rail Service	<i>Not Yet Quantified</i>					Pending
TLU-11	Improved Transportation System Management	<i>Not Yet Quantified</i>					Pending

CAFE = corporate average fuel economy; GHG = greenhouse gas; MMtCO₂e = million metric tons of carbon dioxide equivalent; \$/tCO₂e = dollars per metric ton of carbon dioxide equivalent.

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.

Table 5. KEEP Cross-Cutting Issues Technical Work Group

Summary List of Pending Priority Policy Options for Analysis

Policy No.	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2015	2025	Total (2010–2025)			
CCI-1	GHG Inventories, Forecasting, Reporting, and Registry	<i>Not Yet Quantified</i>					Pending
CCI-2	Statewide GHG Reduction Goals and Targets	<i>Not Yet Quantified</i>					Pending
CCI-3	State, Regional, and Local Governments and Academic Institutions GHG Emissions (Lead by Example)	<i>Not Yet Quantified</i>					Pending
CCI-4	Public Education and Outreach	<i>Not Yet Quantified</i>					Pending
CCI-5	Participate in Regional and Multi-State GHG Reduction Efforts, Including Market-Based GHG Reduction Policies	<i>Not Yet Quantified</i>					Pending
CCI-6	Seek Funding for Implementation of KEEP Recommendations	<i>Not Yet Quantified</i>					Pending
CCI-7	Adaptation and Vulnerability	<i>Not Yet Quantified</i>					Pending
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	<i>Not Yet Quantified</i>					Pending
CCI-9	Dedicate Greater Public Investment in Climate Data and Analysis	<i>Not Yet Quantified</i>					Pending

GHG = greenhouse gas; MMtCO₂e = million metric tons of carbon dioxide equivalent; \$/tCO₂e = dollars per metric ton of carbon dioxide equivalent.

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.