

# Appendix C

## KCAPC Selected Priority Policy Options for Further Analysis

Table 1

### 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
<b>Proposed Tier 1 Options and Sub-Options</b>		
AFW-1	Forestry Management for Carbon Sequestration	6.5
AFW-2	Expanded Use of Biomass Feedstocks for Electricity, Heat, and Steam Production	1.1, 8.2
AFW-3	On-Farm Energy Production and Efficiency Improvements	5.1
AFW-4	In-state Liquid/Gaseous Biofuels Production	1.2, 8.7, 10.5
AFW-5	Soil Carbon Management	3.1
AFW-6	Increase Productivity of Abandoned and Reclaimed Lands	4.5
AFW-7	Reforestation, Afforestation, and Restoration of Mined Lands and Other Non-forested Lands	6.10, 6.4
AFW-8	Advanced MSW Reuse, Recycling, and Organic Waste Management Programs	8.1, 9.2
AFW-9	Landfill Methane Energy Programs	9.3

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

<b>Option #</b>	<b>Proposed Option Name</b>	<b>Sub-Option # From Catalog of State Actions</b>
<b>Proposed Tier 1 Options and Sub-Options</b>		
ES-1	Biomass Development and Efficiency Improvements at Existing Power Plants	3.3, 3.2
ES-2	Demand-Side Energy Efficiency and Management Programs [Limit to utility based programs- balanced addressed by RCI-3]	2.8, 2.10
ES-3	Advanced Fossil Fuel Technology (IGCC, CCSR, Advanced Pulverized Coal, CFB, Natural Gas Combined-Cycle) Incentives, Support. or Requirements	3.1
ES-4	CCSR Enabling Policies, R&D, Infrastructure, and Incentives Including Enhanced Oil Recovery Using CO <sub>2</sub>	5.1, 5.2, 5.3, 5.4
ES-5	Pricing Strategies to Promote Efficiency and Renewables, Including Net Metering, Feed-In-Tariff, Interconnection Rules, Inclined Rates, Demand-Side Management, and Examination of the Standard Rate Structure	2.6, 6.2, 2.17, 2.16
ES-6	New Nuclear Energy Capacity	3.6
ES-7	Renewable Energy Incentives and Barrier Removal, Including CHP	2.2, 2.3, 2.4, 2.9, 2.1, 1.8
ES-8	Technology Research and Development (not including CCSR or Wind Potential Study)	1.5, 2.12, 2.15, 2.18
ES-9	Promote Wind Energy in Kentucky	2.14
ES-10	Shale Gas Development, Natural Gas Transportation Infrastructure, and Gas-to-Liquids Incentives, Support or Requirements	4.7, 4.8, and part of 4.5
ES-11	Smart Grid, Including Transmission and Distribution Efficiency	6.8, 6.1, 6.3
ES-12	Coal to Liquids Incentives, Support, or Requirements	4.5

CCSR = carbon capture and storage or reuse; CFB = circulating fluidized bed; CHP = combined heat and power; CO<sub>2</sub> = carbon dioxide; IGCC = integrated gasification combined cycle; R&D = research and development.

**Table 3**

**Residential, Commercial and Industrial Technical Work Group**

**Summary List of Recommended Priority Policy Options for Analysis—Draft**

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
<b>Proposed Tier 1 Options and Sub-Options</b>		
RCI-1	Improve building codes for energy efficiency, coupled with improved energy code training and enforcement (new construction focus)	2.1, 2.2, 2.17
RCI-2	Promote, encourage, and incentivize “beyond-code” efficiency in all building characteristics and systems that impact energy consumption (retrofit focus)	2.6, 2.7, 2.8, 2.13, 2.18, 2.21, 2.22, 3.3, 6.4, 6.5, 6.7, 6.8, 6.9, 9.4
RCI-3	Expand utility DSM programs (beyond EERS) for electricity	1.1, 1.3
RCI-4	Develop and implement comprehensive education, outreach, and marketing, including consumer awareness, school curriculum, truth-in-advertising, technical information and support (e.g., how to do GHG inventories), rationales for action, etc.	4.1, 4.2, 4.3, 4.6, 6.6, 8.5
RCI-5	Financing programs and incentives for energy efficiency and CHP (PBF, revolving loans, etc.)	1.4, 1.9, 1.10, 1.13, 1.15, 6.2, 9.5, 9.6
RCI-6	Financing programs, incentives, policies, and research for conversion to RE or low-carbon energy sources	5.2, 5.6, 5.8, 6.1, 8.1
RCI-7	Government Lead by Example (GLE) in highly efficient state and local government buildings	1.11, 2.3, 2.11, 2.12, 2.20, 5.7, 9.1, 9.2
RCI-8	Training and education for builders, contractors, and building operators	2.9, 2.10
RCI-9	Building commissioning and recommissioning, including energy tracking and benchmarking, and implement a building energy labeling program	2.15, 2.19
RCI-10	Implement advanced metering technologies and associated policies for greater load management, customer control, awareness, price signaling, etc.	2.16, 4.4, 5.3, 6.10

CHP = combined heat and power; DSM = demand-side management; EERS = energy efficiency resource standard; GHG = greenhouse gas; PBF = public benefit fund; RE = renewable energy.

**Table 4****Transportation and Land Use Technical Work Group****Summary List of Recommended Priority Policy Options for Analysis**

<b>Option #</b>	<b>Proposed Option Name</b>	<b>Sub-Option # From Catalog of State Actions</b>
<b>Proposed Tier 1 Options and Sub-Options</b>		
TLU-1	Bike and Pedestrian Comprehensive Plan and Infrastructure Development	5.7 includes 5.20
TLU-2	Brownfield Redevelopment, Downtown Revitalization and Location Efficient Strategies	4.3 includes 4.1, 4.4, 4.5, 4.9, 4.10
TLU-3	Transit and Transportation System Management	5.1 includes 5.17, 5.18, 8.3, and 5.2 includes 5.5 and 6.22
TLU-4	Expand Transit Infrastructure (Rail, Bus, Bus Rapid Transit)	5.4
TLU-5	Education and Outreach for Vehicle Maintenance, Idle Reduction, and Co-Driving, and Promote Alternative Modes of Travel	5.23 includes 1.7, 2.9, 10.3, 6.23
TLU-6	Land Use, Zoning, Tax, and Building Code Reform, and Connectivity	4.6 includes 5.19
TLU-7	Parking Management and Ride Sharing	5.11 includes 5.10, 6.6 (6.6 includes 6.5 and 6.8)
TLU-8	Initiatives to Promote Strategies to Move Freight in More GHG-Efficient Ways	9.1 includes 9.3, 9.4, 9.5, 8.10, 12.15, 12.4 (12.4 is a bundle that includes 12.8, 12.9, 12.10)
TLU-9	Promote Consumption of Locally Produced Goods and Services	9.6
TLU-10	Promote Use of Alternative Fuels	3.4, 3.5, 3.6, 12.3
TLU-11	Promote Use of Clean Vehicles	3.8, 3.9

**Table 5**

**Cross-Cutting Issues Technical Work Group**

**Summary List of Recommended Priority Policy Options for Analysis—Draft**

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
<b>Proposed Tier 1 Options and Sub-Options</b>		
CCI-1	Greenhouse Gas (GHG) Emission Inventories, Forecasts, Reporting, and Registry	1.1 GHG emissions inventory (formerly 1.1 consolidated into 1.3) 1.2 GHG emissions forecasting (formerly 1.2 consolidated into 1.3) 1.3 GHG emissions reporting (formerly 2.1 consolidated into 1.3) 1.4 GHG registry (formerly 3.1 consolidated into 1.3)
CCI-2	Public Education and Outreach	2.1 Comprehensive education and outreach process (formerly 4.1–4.6 and 4.10 consolidated into 4.12) 2.2 Fund climate change and solution research (formerly 4.8)
CCI-3	Adaptation and Vulnerability	3.1 Develop a state climate change vulnerability assessment and adaptation plan (formerly 5.1 and 5.2 consolidated into 5.3)
CCI-4	Statewide GHG Emission Reduction, Energy Intensity, and Energy Efficiency Goals and Targets	4.1 Conduct a broad stakeholder and public process to develop state GHG emission reduction, energy intensity, and energy efficiency goals (formerly 6.1 and 6.2 consolidated into 6.3)
CCI-5	State and Local Government GHG Emission Reduction, Energy Intensity, and Energy Efficiency Activities (Lead by Example)	5.1 Establish goals and targets and develop incentives for energy-saving actions for state-owned or -operated facilities and fleets (formerly 7.1, 7.10, and 7.11 consolidated into 7.14) 5.2 Assign or create a multi-agency body to coordinate ongoing state climate efforts (formerly 7.2, 7.3, and 7.13 consolidated into 7.15) 5.3 Require state programs funded with state bonding to meet state energy efficiency and GHG targets (formerly 7.5 and 7.6 consolidated into 7.16)
CCI-6	Local GHG Emission Reduction, Energy Intensity, and Energy Efficiency Actions	6.1 Develop a climate action tool kit for local government, institutions, and individuals (formerly 8.1, 8.2, 8.4, and 8.5 consolidated into 8.7)

Option #	Proposed Option Name	Sub-Option # From Catalog of State Actions
<b>Proposed Tier 1 Options and Sub-Options</b>		
CCI-7	Financial Policies	<p>7.1 Recognizing that some policy decisions to reduce GHG emissions will have costs, develop long-term funding to implement KCAPC-adopted actions (re-drafted former 9.1)</p> <p>7.2 Establish a framework and funds to be used by public-private partnerships to improve energy efficiency and intensity (formerly 8.6)</p>
CCI-8	Conduct an Impact Analysis of Federal GHG Constraints on Kentucky	<p>8.1 Conduct a state vulnerability and opportunity assessment and adaptation plan for federal carbon constraints, including a study of the implications of market-based systems on KY (formerly 4.9, 12.1, and 12.2 consolidated into 12.3)</p> <p>8.2 Form a regional climate action group or consortium with surrounding coal states to help meet climate regulations (formerly 7.7, 7.8, and 7.9 consolidated into 7.17)</p>