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## Memo

**To:** Colorado Climate Action Panel Members

**From:** The Center for Climate Strategies

**CC:** Rocky Mountain Climate Organization  
Executive Office of the Governor, Colorado Department of Public Health and Environment, Policy Work Group Members

**Subject:** Preparation for the Fifth Meeting of the Colorado Climate Action Panel

**Date:** August 1, 2007

At the fifth meeting of the Colorado Climate Action Panel (CAP) on August 1, 2007, the CAP will review and begin approval of 56 draft climate change policy options developed since the launch of the CAP process in November 2006. The CAP will review, discuss and modify options as needed to reach final approval. Those options not fully agreed to at this meeting will be referred to the Policy Work Groups (PWGs) for further development and presentation at the final CAP meeting.

A summary of the 56 pending draft policy options is attached, and a detailed description of each and related background is posted to the CAP website at: <http://www.coloradoclimate.org>. Please review these documents prior to the meeting.

A summary of draft policy options is attached below:

Table #	Policy Work Group	# Policy Options
1	Residential, Commercial, and Industrial Pending Options List	10
2	Energy Supply Pending Options List	15
3	Transportation and Land Use Pending Options List	12
4	Agriculture and Forestry Pending Options List	10
5	Cross Cutting Issues Pending Options List	9
6	Water Adaptation Pending Options List	15
<b>Total</b>		<b>71</b>

**Table 1.**  
**Residential, Commercial, and Industrial Policy Work Group**  
**Summary List of Pending Policy Options**

	Policy Option	GHG Reductions (MMtCO <sub>2</sub> e)			Net Present Value 2007–2020 (Million \$)	Cost-Effectiveness (\$/tCO <sub>2</sub> e)	Status of Option
		2012	2020	Total 2007–2020			
RCI-1	Expanded Demand Side Management	2.2	8.3	50.1	-1617	-32	Pending
RCI-2	Energy Efficiency in Buildings Owned by State and Local Governments	0.2	0.5	3.7	-138	-37	Pending
RCI-3	Enforcement of Building Codes	N/A	N/A	N/A	N/A	N/A	Pending
RCI-4	Planning and Design	1.0	2.4	20.4	12	1	Pending
RCI-5	Inverted Block Rates to Fund Energy Efficiency	4.9	17.1	102.5	-2916	-28	Pending
RCI-6	Retrofitting Existing Buildings for Energy Efficiency	0.5	1.8	11.7	-467	-40	Pending
RCI-7	Pricing and Purchasing	1.8	2.3	23.3	-256	-11	Pending
RCI-8	Renewable Energy Systems on New and Existing Buildings	N/A	N/A	N/A	N/A	N/A	Pending
RCI-9	Energy Delivery (CHP)	0.9	2.7	18.2	67	4	Pending
RCI-10	Targeting Small and Medium Enterprises	N/A	N/A	N/A	N/A	N/A	Pending
	<b>Sector Total After Adjusting for Overlaps</b>	6.6	21.9	138.9	-3,427.0	-24.85	
	<b>Reductions From Recent Actions (table to be added below)</b>	-	-	-	-	-	
	<b>Sector Total Plus Recent Actions</b>	6.6	21.9	137.9	-3,427.0	-24.85	

**Table 2.**  
**Energy Supply Policy Work Group**  
**Summary List of Pending Policy Options**

	Policy Option	GHG Reductions (MMtCO <sub>2</sub> e)			Net Present Value 2007–2020 (Million \$)	Cost-Effective-ness (\$/tCO <sub>2</sub> e)	Status of Option
		2012	2020	Total 2007–2020			
ES-1	Renewable Energy Incentives Including Waste to Energy	<i>Component of ES-2</i>					Pending
ES-2	Mandated Portfolio Standards	3	8	58	784	14	Pending
ES-2a	Clean Energy Portfolio Standard	<i>Non-specific policy not quantified</i>					Pending
ES-3	Transmission Infrastructure for Renewables	<i>Non-quantitative policy proposal</i>					Pending
ES-4	Cost for CO <sub>2</sub> Emissions (Cap and Trade or Tax)	<i>Non-specific policy not quantified</i>					Pending
ES-5	Public Benefit Charge Funds	<i>Quantitative analysis pending (similar to ES-2)</i>					Pending
ES-6	Incentives for CHP, DG, Smart Grid	0.4	1	7	111	15	Pending
ES-7	Carbon Capture & Transport Infrastructure	<i>Non-quantitative proposal not quantified</i>					Pending
ES-8	Pricing and Rates	<i>Covered under RCI-7</i>					Pending
ES-9	R&D for Carbon Emissions Reducing Generating Technology	<i>R&amp;D emission reduction benefits not analyzed</i>					Pending
ES-10	Promote Advanced Fossil Fuel Generation with Carbon Capture, Including IGCC	<i>Non-specific policy not quantified</i>					Pending
ES-11	Small New Hydro and Efficiency Improvements at Existing Hydro, Identifying Other Small Renewables and Removing Barriers Thereto	0	0.8	3	123	40	Pending
ES-12	Nuclear Energy	<i>Non-specific policy not quantified</i>					Pending
ES-13	Efficiency Improvements for Existing Generators (Includes Heat Recovery)	<i>Quantitative analysis pending</i>					Pending
ES-14	Oil and Gas Operations	0.8	3	16	12	0.8	Pending
ES-15	CO <sub>2</sub> Emission Standards for Power Plants	0.5	2	13	14	1	Pending
	<b>Sector Total After Adjusting for Overlaps</b>	4	9	61	846	14	
	<b>Reductions From Recent Actions (table to be added below)</b>	-	-	-	-	-	
	<b>Sector Total Plus Recent Actions</b>	4	9	61	846	14	

**Table 3.**  
**Transportation and Land Use Policy Work Group**  
**Summary List of Pending Policy Options**

	Policy Option	GHG Reductions (MMtCO <sub>2</sub> e)			Net Present Value 2007–2020 (Million \$)	Cost-Effectiveness (\$/tCO <sub>2</sub> e)	Status of Option
		2012	2020	Total 2007–2020			
TLU-1	Smart Growth and Related Planning	0.08	0.47	2.43	<0	<0	Pending
TLU-2	Incentives for Purchase and Operation of Low-GHG Vehicles	<i>Quantified as part of TLU-6</i>					Pending
TLU-3	Improve and Expand Transit Service	0.17	0.97	5.09	TBD	TBD	Pending
TLU-4	Heavy-Duty Vehicle Idle Reduction	0.07	0.11	0.91	-146	-133	Pending
TLU-5	Low Carbon Fuels Standard	0.38	2.21	16.14	N/A	N/A	Pending
TLU-6	Clean Car Program (Pavley GHG Standards for Autos)	0.70	3.40	18.80	-100	-1,880	Pending
TLU-7	Transit Marketing, Promotion, and Pricing Incentives	<i>Quantified as part of TLU-3</i>					Pending
TLU-8a	Fuel Tax	0.17	0.50	3.86	TBD	TBD	Pending
TLU-8b	Variable-Priced Insurance	0.32	0.94	7.19	TBD	TBD	Pending
TLU-9	Parking Management	0.03	0.03	0.34	TBD	TBD	Pending
TLU-10	Commuter Benefits Programs	0.42	0.45	4.77	TBD	TBD	
TLU-11	Driver and Consumer Education	<i>Not quantified</i>					Pending
	<b>Sector Total After Adjusting for Overlaps</b>	2.3	8.2	49.7			
	<b>Reductions From Recent Actions (table to be added below)</b>	0	0	0	-	-	
	<b>Sector Total Plus Recent Actions</b>	2.3	8.2	49.7			

**Table 4.  
Agriculture, Forestry, and Waste Management Policy Work Group  
Summary List of Pending Policy Options**

	Policy Option	GHG Reductions (MMtCO <sub>2</sub> e)			Net Present Value 2007–2020 (Million \$)	Cost-Effective-ness (\$/tCO <sub>2</sub> e)	Status of Option
		2012	2020	Total 2007–2020			
AFW-1	Agricultural Crop Management	1.22	0.80	11.70	TBD	TBD	Pending
AFW-2	Manure Management and Energy Utilization	0.01	0.32	1.80	49	27	Pending
AFW-3	Reductions in On-Farm Energy Use	0.15	0.70	4.10	TBD	TBD	Pending
AFW-4	Biodiesel Production	0.02	0.22	1.10	156	139	Pending
AFW-5	Ethanol Production	0.39	3.09	15.30	58	3	Pending
AFW-6	Preserve Lands with Carbon Storage Value	TBD	TBD	TBD	TBD	TBD	Pending
AFW-7	Biomass Feedstocks for Energy Production	<i>Included in AFW-8</i>					Pending
AFW-8	Forestry Programs to Enhance GHG Benefits	4.20	8.70	80.20	7	0	Pending
AFW-9	Source Reduction, Enhanced Recycling & Composting Programs	TBD	TBD	TBD	TBD	TBD	Pending
AFW-10	Landfill Methane Energy Programs	0.33	1.16	7.50	TBD	TBD	Pending
	<b>Sector Total After Adjusting for Overlaps</b>						
	<b>Reductions From Recent Actions (table to be added below)</b>						
	<b>Sector Total Plus Recent Actions</b>						

**Table 5.  
Cross-Cutting Issues Policy Work Group  
Summary List of Pending Policy Options**

	Policy Option	GHG Reductions (MMtCO <sub>2</sub> e)			Net Present Value 2007–2020 (Million \$)	Cost-Effectiveness (\$/tCO <sub>2</sub> e)	Status of Option
		2012	2020	Total 2007–2020			
CC-1	GHG Inventories and Forecasts	<i>Not Quantified</i>					Pending
CC-2	State GHG Reporting	<i>Not Quantified</i>					Pending
CC-3	State GHG Registry	<i>Not Quantified</i>					Pending
CC-4	Statewide GHG Reduction Goals and Targets	<i>Not Quantified</i>					Pending
CC-5	State and Local Government GHG Emissions (Lead-by-Example)	<i>Not Quantified</i>					Pending
CC-6	Comprehensive Local Government Climate Action Plans	<i>Not Quantified</i>					Pending
CC-7	Public Education and Outreach	<i>Not Quantified</i>					Pending
CC-9	Establish a Proactive Public-Private Partnership to Seek Investment Capital and Philanthropic Funding for Reducing GHG Emissions and Supporting Development of the New Energy Economy in Colorado	<i>Not Quantified</i>					Pending
CC-10	Vulnerability and Adaptation	<i>Not Quantified</i>					Pending
	<b>Sector Total After Adjusting for Overlaps</b>						
	<b>Reductions From Recent Actions (table to be added below)</b>						
	<b>Sector Total Plus Recent Actions</b>						

**Table 6**  
**Water Adaptation Policy Work Group**  
**Summary List of Policy Options**

	<b>Policy Option</b>
WA-1	Need for Leadership
WA-2	Consideration of Climate Change in Water Decisions
WA-3	Colorado River Water Availability
WA-4	Interstate Compacts
WA-5	Climate and Hydrologic Data
WA-6	Drought Vulnerability Assessments and Planning
WA-7	Regional Modeling
WA-8	Water Conservation
WA-9	Agriculture
WA-10	Energy and Water
WA-11	Information Exchanges
WA-12	Recreation and Tourism
WA-13	Water Quality and the Environment
WA-14	Groundwater
WA-15	Colorado Water Institute