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Memo

To: Vermont Plenary Group Members
 From: The Center for Climate Strategies
 CC: Governor’s Climate Change Commission (GCCC), Vermont Department of Environmental Conservation (DEC)
 Subject: Preparation for the 6th Meeting of the Vermont Plenary Group (PG)
 Date: June 21, 2007

At the 6th meeting of the Vermont GCCC Plenary Group on Thursday, June 21, 2007, the PG will continue its review and approval of the 38 draft climate change policy options developed since the launch of the PG process in September 2006. The PG will review, discuss, and modify options as needed to reach final approval. Options not fully agreed to at this meeting will be referred back to the Technical Work Groups (TWGs) for further development and presentation at the final PG meeting on July 26, 2007.

A summary of the 38 draft policy options is included below, and a detailed description of each along with related background material is posted to the GCCC-PG website at www.vtclimatechange.us. Please review these documents prior to the meeting.

Table #	Technical Work Group	# Policy Options
1	Energy Supply and Demand Pending Options List	10
2	Transportation and Land Use Pending Options List	9
3	Agriculture and Forestry Pending Options List	12
4	Cross-Cutting Issues Pending Options List	7
	<i>Total</i>	38

Next Steps

Present Second Round of Analysis of Draft Policy Options, Approve Consensus Policy Options, Return Others to TWGs for Additional Revision and/or Quantification	PG Meeting #6 (This meeting)
Approve Final PG Policy Option Recommendations	PG Meeting #7
Deliver Final Report to GCCC	August 2007

Energy Supply and Demand Technical Work Group Summary List of Policy Options

	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value 2008–2030 (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2012	2028	Total 2008–2030			
ESD-1	Evaluation and Continuation/ Expansion of Existing DSM for Electricity and Natural Gas	0.66	1.68	25.11	-\$274	-\$10.9	
ESD-2	Evaluation and Expansion of DSM to Other Fuels	0.12	0.59	7.49	-\$172	-\$23.0	
ESD-3	Building Efficiency Codes, Training, Tracking	<i>See ESD-2</i>					
ESD-4	Evaluate Potential for Contracting Nuclear Power						
	(Scenario 1)	0.87	1.30	24.3	\$0	\$0.0	
	(Scenario 2)	0.43	0.65	12.1	\$0	\$0.0	
ESD-5	Support for Combined Heat and Power	0.06	0.23	3.05	-\$33	-\$11	
ESD-6	Incentives and/or Mandate for Renewable Electricity						
	(Scenario 1)	0.08	0.55	6.5	-\$1	-\$0.2	
	(Scenario 2)	0.20	1.11	13.02	2.60	0.20	
ESD-7	GHG Cap & Trade and/or GHG tax	<i>pending</i>					
ESD-8	Incentives for Clean Distributed Technologies for Electricity or Heat						
	Natural Gas Fuel Switching	0.08	0.13	2.51	<i>pending</i>		
	Solar Thermal Water Heating	0.05	0.22	2.74	\$126	\$46.1	
ESD-9	Wind-Specific Support Measures						
	(New Wind, Scenario 1)	0.03	0.22	2.58	\$11	\$4.3	
	(New Wind, Scenario 2)	0.08	0.44	5.12	\$30	\$5.9	
ESD-10	Hydro-Specific Support Measures						
	(Continued Large Hydro, Scenario 1)	0.02	1.28	19.9	\$0	\$0.0	
	(Continued Large Hydro, Scenario 2)	0.01	0.64	9.9	\$0	\$0.0	

	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value 2008–2030 (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2012	2028	Total 2008-2030			
	(New Hydro, Scenario 1)	0.01	0.08	0.97	-\$5	-\$5.6	
	(New Hydro, Scenario 2)	0.03	0.17	1.95	-\$12	-\$6.0	
	Total						
	Scenario 1 (Generation of Nuclear and Hydro at Historic Levels)	1.88	5.77	88.52	-\$321	-\$3.6	
	Scenario 2 (Generation of Nuclear and Hydro at 50% of Historic Levels)	1.60	5.26	76.00	-\$351	-\$4.6	

Note: Positive numbers for Net Present Value (NPV) and Cost-effectiveness reflect net costs. Negative numbers reflect net cost savings.

**Transportation and Land Use Technical Work Group
Summary List of Policy Options**

	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value 2008–2028 (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2012	2028	Total 2008–2028			
TLU-1	Compact and Transit-Oriented Development Bundle	.26	.99	10.88	Net savings		Pending
TLU-2	Alternatives to Single Occupancy Vehicles (SOVs)	.28	.32	6.57	Net savings		Pending
TLU-3	Vehicle Emissions Reductions Incentives	.11	.63	7.73	-\$42	-\$10	Pending
TLU-4	Pay as You Drive Insurance	.20	.32	5.30	Net savings		Pending
TLU-5	Alternative Fuels and Infrastructure (LCFS)	.12	.42	5.75	NA		Pending
TLU-6	Regional Intermodal Transportation System – Freight and Passenger	.05	.20	2.22	NA		Pending
TLU-7	Commuter Choice/Parking Cash-out	.06	.19	1.86	-\$1	-\$1	Pending
TLU-8	Plug-in Hybrids [part of TLU-5]	-	-	-	-		Pending
TLU-9	Fuel Tax Funding Mechanism [TWG recommends a larger exploration]	-	-	-	-		Pending
	SECTOR TOTAL BEFORE ADJUSTING FOR OVERLAPS	1.09	3.07	40.31	NA	NA	Pending
	REDUCTIONS FROM RECENT POLICY ACTIONS						Pending
	SECTOR TOTAL PLUS RECENT POLICY ACTIONS	TBD	TBD	TBD	TBD	TBD	Pending

Agriculture, Forestry, and Waste Management Technical Work Group Summary List of Policy Options

	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value 2007-2028 (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2012	2028	Total 2007-2028			
AFW-1	Programs to Support Local Farming/Buy Local	0.004	0.02	0.2	0.8	5	TBD
AFW-2	Agricultural Nutrient Management Programs	0.08	0.10	1.6	4.2	3	TBD
AFW-3	Manure Management Methods to Achieve GHG Benefits	0.01	0.02	0.3	34	136	TBD
AFW-4	Protect Open Space/Agricultural land	0.06	0.11	1.8	56	31	TBD
AFW-5	Forestry Programs to Enhance GHG Benefits*	0.27	0.25	5.1	4	1	TBD
AFW-6	Increased Forest Biomass Energy Use	<i>Quantified under AFW-5 & ESD options</i>					TBD
AFW-7	Forest Protection – Reduced Clearing and Conversion to Non-Forest Cover	0.4	2.0	22	34	2	TBD
AFW-8	Expanded Use of Durable Wood Products (especially from VT sources)	<i>1E-4</i>	<i>2E-4</i>	<i>3E-3</i>	Not Quantified	Not Quantified	TBD
AFW-9	Advanced/Expanded Recycling and Composting	0.16	0.88	9.1	37	4	TBD
AFW-10	Programs to Reduce Waste Generation	0.34	0.73	10	Not Quantified	Not Quantified	TBD
AFW-11	Waste Water Treatment – Energy Efficiency Improvements	0.004	0.01	0.14	-19	-133	TBD
AFW-12	In-State Liquid Biofuels Production – Ethanol Production	0.03	0.42	3.7	5.0	1	TBD
	In-State Liquid Biofuels Production – Biodiesel Production	0.004	0.24	2.2	40	18	
	SECTOR TOTAL AFTER ADJUSTING FOR OVERLAPS	1.4	4.8	56	151	3	
	REDUCTIONS FROM RECENT ACTIONS (table to be added below)	0	0	0	0	0	
	SECTOR TOTAL PLUS RECENT ACTIONS	1.4	4.8	56	151	3	

* These estimates are based on the mid-point of results achieved using two different methods.

Cross Cutting Technical Work Group
Summary List of Policy Options

	Policy Option	GHG Reductions (MMtCO ₂ e)			Net Present Value 2008–2028 (Million \$)	Cost-Effectiveness (\$/tCO ₂ e)	Level of Support
		2012	2028	Total 2008–2028			
CC-1	GHG Inventories and Forecasts	<i>Not Quantified</i>					Unanimous Consent
CC-2	GHG Reporting	<i>Not Quantified</i>					Unanimous Consent
CC-3	GHG Registry	<i>Not Quantified</i>					Unanimous Consent
CC-4	Public Education and Outreach	<i>Not Quantified</i>					Unanimous Consent
CC-5	Adaptation	<i>Not Quantified</i>					Unanimous Consent
CC-6	Options for Goals or Targets	<i>Not Quantified</i>					Pending
CC-7	The State’s Own GHG Emissions	<i>Not Quantified</i>					Pending
	SECTOR TOTAL AFTER ADJUSTING FOR OVERLAPS						
	REDUCTIONS FROM RECENT POLICY ACTIONS						
	SECTOR TOTAL PLUS RECENT POLICY ACTIONS						