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Memo

To: New Mexico Climate Change Advisory Group (CCAG) Members
From: Center for Climate Strategies
CC: NMED
Re: Technical Work Group (TWG) Priority Options For Analysis
Date: January 11, 2006

In the tables to follow we have attached a current tally of priorities for analysis developed by all technical work groups (TWGs) as well as lists of individual priorities for each TWG (also referred to as the "short lists" of policy options). These lists may be slightly modified in TWG discussions to be held the Tuesday afternoon prior to the CCAG meeting on Wednesday, and will be revised and reposted the night before as needed.)

These new policy option lists are based on progress made by TWGs since the last CCAG meeting. The "short list" of priority options for analysis have been assigned a new number for tracking purposes, and also a reference to the original numbers from the "long list" matrix of options on which they are based. Much prioritizing and consolidation has been applied to the original long list matrix, and more may follow as the CCAG and TWGs develop and evaluate options. From here forward we expect that most of the focus of TWG and CCAG discussions will center on shaping and analysis of individual options.

We also have attached a sample policy description template that shows the type of information that we'll be developing for each option in order to finalize it as a recommendation. This includes background information to help readers understand the option more clearly and specific definitions of the policy and key design parameters, implementation methods and results of quantification. Each of these policy templates will be a living draft and work in progress by the TWGs until final approvals are made by the CCAG.

Current Tally of Priority Options For Analysis For All TWGs (64 Total)

TWG	# Current Priorities For Analysis*
Energy Supply	19
RCI	19
Transportation and Land Use	10
Agriculture and Forestry	13
Cross Cutting Issues	3
Total	64
	* This list may include overlapping options.

Energy Supply Technical Work Group

List of Priority Options For Analysis (19 Total)

Temp #	Policy Name	Long List #	Volunteers (Tentative)	Email
	Renewable Electricity			
ES-1	Renewable Portfolio Standard (RPS)	1.1	Burks, Griscom, Melton, O'Hare	jburks@pnm.com dgriscom@rdcnm.org dmelton@sacredpowercorp.com craig.ohare@state.nm.us
ES-2	Tax credits and incentives for renewables	1.2	Burks, Ely, Griscom, Melton	jburks@pnm.com sandra.ely@state.nm.us dgriscom@rdcnm.org dmelton@sacredpowercorp.com
ES-3	Distributed renewables	1.4	Luce, Melton, Smith	lucien@cybermesa.com dmelton@sacredpowercorp.com smithgr1@bp.com
ES-4	Renewable energy transmission and storage	1.9	Ihle, Luce	jack.ihle@xcelenergy.com lucien@cybermesa.com
ES-5	Biomass	1.5	Hoodenpyle	agrienergy@hotmail.com
ES-6	Centralized renewables	1.1, 1.2, 1.6	Luce	lucien@cybermesa.com
ES-7	R&D including energy storage	1.3, 1.9	Michel	stevensmichel@msn.com
ES-8	Wind power siting	1.9, 5.3	Ramakka	jim_ramakka@nm.blm.gov
	Centralized Non-Renewable Electricity			
ES-9	Advanced coal/fossil technologies e.g., IGCC with carbon capture (See ES-15 too)	2.1 & 2.2	Burks, Ely, Groenewold, Hoodenpyle, Ihle, O'Hare	jburks@pnm.com sandra.ely@state.nm.us kgroenewold@nmelectric.coop agrienergy@hotmail.com jack.ihle@xcelenergy.com craig.ohare@state.nm.us
ES-10	Nuclear licensing (includes relicensing, uprating, and new licenses)	3.2	Groenewold	kgroenewold@nmelectric.coop
	Grid and Demand-Side Policies			
ES-11	Combined Heat & Power (CHP) incentives and barrier reduction	4.1	Burks, Hoodenpyle	jburks@pnm.com agrienergy@hotmail.com

Temp #	Policy Name	Long List #	Volunteers (Tentative)	Email
ES-12	Net metering	5.2	Griscom	dgriscom@rdcnm.org
ES-13	Broad demand management of electricity and natural gas (focused on consumption, not peaks)	5.7, 5.9, & 5.10	Smith	smithgr1@bp.com
ES-14	Transmission capacity and corridors	5.3	Ramakka	jim_ramakka@nm.blm.gov
	Oil and Gas Policies			
ES-15	CO2 Capture and Storage or Reuse (CCSR) In oil & gas and other operations; includes storage or reuse of power sector CO2 (see ES-9)	7.14, 2.2	Ames, Gantner, Zak	ames@westernlaw.org bgantner@br-inc.com bdzak@sandia.gov
ES-16	Methane reduction in oil & gas operations – Best Management Practices (BMPs) & Partner Reduction Opportunities (PROs)	7.4, 7.5, & 7.9 - 7.14	Ames, Smith	ames@westernlaw.org smithgr1@bp.com
ES-17	CO2 reduction from fuel combustion in oil & gas operations	7.1, 7.2, 7.3	Ames, Ely	ames@westernlaw.org sandra.ely@state.nm.us
	Emissions Policies			
ES-19	GHG Cap & Trade (includes offsets policies)	11.4, 11.2	Burks, Green, Groenewold, Michel, O'Hare	jburks@pnm.com gsgwin@aol.com kgroenewold@nmelectric.coop stevensmichel@msn.com craig.ohare@state.nm.us

Residential Commercial and Industrial Technical Work Group

List of Priority Options For Analysis (19 Total)

Temp# *	Policy Name	Long List#	Volunteers	E-mail addresses
	Residential, Commercial, and Industrial			
	Subgroup A – Energy Efficiency Programs and Policies		Susie Marbury, Tom Singer, Bineshi Albert	Susie.Marbury@state.nm.us, tsinger@nrdc.org, bineshi@climatecouncil.org
RCI-1	Utility Demand Side Management (DSM) Programs, Energy Efficiency Funds, and/or Energy Efficiency Requirements for Electricity	1.1		
RCI-2	Utility Demand Side Management (DSM) Programs, Energy Efficiency Funds, and/or Energy Efficiency Requirements for Natural Gas and Other Fuels	1.2		
RCI-3	Regional Market Transformation Alliance	1.3		
RCI-4	State Appliance Standards	2.1	Erik Aaboe	erik.aaboe@state.nm.us
	Subgroup B – Building Design, Construction, and Operations		Susie Marbury, Howard Kaplan, Isreal Tavarez	Susie.Marbury@state.nm.us, Howard.Kaplan@wilsonco.com, ITavarez@cabq.gov
RCI-5	Improved Building Codes	3.1		
RCI-6	Building Energy Performance Requirements for State-funded and Other Government Buildings plus Promotion and Incentives for Similar Energy Performance Enhancements in Non-Government Buildings	3.2	Erik Aaboe	erik.aaboe@state.nm.us
RCI-7	Government Agency Requirements and Goals (including procurement) -- Focus on operations	9.1	Erik Aaboe	erik.aaboe@state.nm.us
RCI-8	Education and Outreach for Building Professionals	4.4		
	Subgroup C – Education and Outreach		Susie Marbury, Bineshi Albert	Susie.Marbury@state.nm.us, bineshi@climatecouncil.org
RCI-9	Consumer Education Programs	4.1		
RCI-10	Increased Emphasis on Energy and Environmental Consideration in Higher Education	4.3	Howard Kaplan	Howard.Kaplan@wilsonco.com

Temp#*	Policy Name	Long List#	Volunteers	E-mail addresses
	Subgroup D – Purchased or Distributed Low-Carbon Generation		Tom Singer	
RCI-11	Green Power Purchasing	5.1		
RCI-12	Rate Design (Including Time of Use Rates, Increasing Block Rates, and Seasonal Use Rates)	5.4	Tom Singer	tsinger@nrdc.org
RCI-13	Incentives and Promotion for Renewable Energy and Clean Combined Heat and Power	6.1		
RCI-14	Regulatory/Legislative Grid, Pricing, and other Policies to Support Distributed Generation	6.2	Tom Singer?	tsinger@nrdc.org
	Subgroup E – Direct GHG Reduction Policies		Don Whaley**, Isreal Tavarez	don@navajo-refining.com, ITavarez@cabq.gov
RCI-15	Support for Switching to Less Carbon-Intensive Fuels	8.1		
RCI-16	Participation in Regional (or National) Industry Emissions Cap and Trade Programs	8.2	Tom Singer	tsinger@nrdc.org
RCI-17	Voluntary Emissions Targets	8.3		
	Subgroup F – Other Options		Isreal Tavarez	ITavarez@cabq.gov
RCI-18	Use of Alternative Gases (Non-Energy Emissions, Industrial Process Gases)	7.4		
RCI-19	Solid Waste Recycling, Source Reduction, and Composting	10.1	Dave Bearden	dbearden@wm.com

Transportation and Land Use Technical Work Group

List of Priority Options For Analysis (10 Total)

#	Policy Name	Long List#	Volunteers	Email addresses
	Passenger Sector—Vehicle Technology			
TLU-1	California GHG Emission Standards for Light-duty Vehicles	1.1.1, 1.1.2	Eva Thaddeus	evathad@nmia.com
TLU-2	Procurement of Efficient Fleet Vehicles	1.1.5	TBD	
TLU-3	Incentive/Disincentive Options Bundle	1.1.6, 1.1.7, and 1.1.8	Eva Thaddeus, Patricia Hoffman	evathad@nmia.com, phoffman@nmsu.edu
	Alternative Fuels (including Biodiesel, Ethanol, Electricity, Solar, Etc.)			
TLU-4	Alternative Fuels Bundle	1.2.1, 1.2.2, 1.2.3, 1.2.4, 2.2.1, 2.2.2, 2.2.3	Charles Bensinger, Richard Dunn	newworld@timewindow.com, greenwheels@newmexico.com
	Demand—Land Use/Location Efficiency			
TLU-5	Infill, Brownfield Re-development	1.4.1	Ken Hughes	Ken.Hughes@state.nm.us
TLU-6	Transit-Oriented Development	1.4.2	Ken Hughes	Ken.Hughes@state.nm.us
TLU-7	Smart Growth Planning, Modeling, Tools	1.4.3	Ken Hughes	Ken.Hughes@state.nm.us
TLU-8	Targeted Open Space & Croplands Protection	1.4.4	TBD	
TLU-9	GHG Offset Req's for Large Developments	1.4.5	TBD	
	Demand—Transit Alternatives			
TLU-10	Multimodal Transportation Bundle	1.5.1, 1.5.2, 1.5.3, 1.5.4, 1.5.5, and 1.5.6	Richard Dunn, Charles Bensinger, Patricia Hoffman, JW Madison, Colin Messer, De Anza Valencia	greenwheels@newmexico.com , newworld@timewindow.com, phoffman@nmsu.edu, madison@swcp.com, ColinJ.Messer@state.nm.us, deanza@rdcnm.org

Agriculture and Forestry Technical Work Group

List of Priority Options For Analysis (13 Total)

Temp#	Policy Name	Long List#	Volunteers	Email
	Forestry			
F-1	Forestland Protection from Developed Uses	6.1	[Brad Musick will talk to forestry experts about taking the lead]	brad.musick@state.nm.us
F-2a	Forest Health and Restoration – Residential Lands	6.8, 6.13, 6.14, 6.15, 6.16, 6.17, 6.18, 6.19 and possibly 7.1, 7.2, 7.3, 7.4, 7.5, and 8.1, 8.2, 8.3, 8.6	[Musick will talk to forestry experts about taking the lead], Amy Welch, Patrick McCarthy	brad.musick@state.nm.us, amy_p_welch@yahoo.com , pmccarthy@tnc.org
F-2b	Forest Health and Restoration – Other Lands	6.8, 6.13, 6.14, 6.15, 6.16, 6.17, 6.18, 6.19 and possibly 7.1, 7.2, 7.3, 7.4, 7.5, and 8.1, 8.2, 8.3, 8.6	[Musick will talk to forestry experts about taking the lead], Amy Welch, Patrick McCarthy	brad.musick@state.nm.us, amy_p_welch@yahoo.com , pmccarthy@tnc.org
	Agriculture			
A-1	Manure Digesters	1.1	Amy Welch (L), Michael Ebinger	amy_p_welch@yahoo.com , mhe@lanl.gov
A-2	Biomass Feedstocks for Electricity or Steam Production	1.3	Brad Lewis (L), Amy Welch, Michael Ebinger	blewis@nmsu.edu, amy_p_welch@yahoo.com , mhe@lanl.gov
A-3	Ethanol Production	1.4	Brian Hurd (L), Amy Welch, Michael Ebinger	bhhurd@nmsu.edu, amy_p_welch@yahoo.com , mhe@lanl.gov
A-4	Nutrient Management	2.1	Brian Hurd (L), Michael Ebinger	bhhurd@nmsu.edu, mhe@lanl.gov
A-5	Manure Management	2.2	Cecilia Abeyta (L)	cabeyta@zianet.com
A-6	Conservation Tillage/No-Till	3.1	Joel Brown (L), Cecilia Abeyta	joelbrow@nmsu.edu, cabeyta@zianet.com
A-7	Convert Agricultural Land to Grassland or Orchards	4.1	Joel Brown (L), Brian Hurd	joelbrow@nmsu.edu, bhhurd@nmsu.edu
A-8	Reduce Permanent	4.2	Amy Welch (L),	amy_p_welch@yahoo.com

	Conversion of Farm and Rangelands to Developed Uses		Cecilia Abeyta	, cabeyta@zianet.com
A-9	Organic Farming	5.1	Louise Pape (L), Michael Ebinger	louisepape@aol.com, mhe@lanl.gov
A-10	Programs to Support Local Farming/Buy Local	5.2	Louise Pape (L), Amy Welch	louisepape@aol.com, amy_p_welch@yahoo.com

Cross Cutting Issues Technical Work Group

List of Priority Options For Analysis (3 Total)

Temp#	Policy Name	Long List#	Volunteers	Email
CC-1	GHG Reporting	N/A	TBD	
CC-2	GHG Registries	N/A	TBD	
CC-3	Education	N/A	TBD	

Draft Policy Option: F1 Forestland Protection from Developed Uses

1. Policy Description:
    a. Lay description of proposed policy action: Reduce the rate at which existing forestlands and forest cover are cleared and converted to developed uses.
    b. Policy Design Parameters:
        i. Implementation level(s) beyond BAU: Acres of forestland saved from expected rates of land clearing.
        ii. Timing of implementation: Acres of forestland saved from land clearing from 2006-2020 [2050?], including acres saved per year in 2012 and 2020 [2050?], including any necessary ramp up period.
        iii. Implementing parties: Types of land ownerships and authorities.
        iv. Other: Carbon densities of live carbon stocks for acreages saved, and rates of recovery of cleared woody biomass to energy recapture and or durable wood products.
    c. Implementation Mechanism(s): Indicate which mechanisms are to be used, and describe the specific approach that is proposed
        i. Information and education
        ii. Technical assistance
        iii. Funding mechanisms and or incentives
        iv. Voluntary and or negotiated agreements
        v. Codes and standards
        vi. Market based mechanisms
        vii. Pilots and demos
        viii. Research and development
        ix. Reporting
        x. Registry
        xi. Other?

2. BAU Policies/Programs, if applicable:
    a. Description of policy/program #1
    b. Description of policy/program #2
    c. Etc.

3. Types(s) of GHG Benefit(s):
    a. CO2: Carbon savings occur as a result of protection of live carbon stocks from conversion to harvested biomass, and subsequent decay or combustion from open burning or energy recapture. These carbon losses from harvested biomass are offset to some extent for a portion of harvested and cleared biomass that is converted to durable wood products, and for a portion converted to renewable energy that displaces fossil energy use. Because conversion of forestland to developed land uses typically is permanent, replacement biomass does not grow back on the site to offset removals of live tree stocks.
    b. CH4: Not applicable
    c. N2O: Not applicable
    d. HFC's, SFC's: Not applicable
    e. Black Carbon: Emissions of black carbon result from combustion of woody biomass from open burning of land clearing.

4. Types of Ancillary Benefits and or Costs, if applicable:
    a. Protection of working lands for sustainable wood products use, recreation, cultural and natural heritage.
    b. Environmental asset protection, including watersheds, wildlife and air quality.
    c. Reduced costs of infrastructure and services for dispersed or low density development.
    d. Reduced transportation emissions from increased location efficiency.

5. Estimated GHG Savings and Costs Per $MMTCO_2e$:
    a. Summary Table of:
        i. GHG potential in 2012, 2020 [2050?]
        ii. Net Cost per $MMTCO_2e$ in 2012, 2020 [2050?]
    b. Insert Excel Worksheet showing summary GHG reduction potential and net cost

6. Data Sources, Methods and Assumptions:
    a. Data Sources
    b. Quantification Methods
    c. Key Assumptions

7. Key Uncertainties if applicable:
    a. Benefits
    b. Costs

8. Description of Ancillary Benefits and Costs, if applicable:
    a. Description of issue #1
    b. Description issue #2
    c. Etc.

9. Description of Feasibility Issues, if applicable:
    a. Description of issue #1
    b. Description of issue #2
    c. Etc.

10. Status of Group Approval:
    a. Pending
    b. Completed

11. Level of Group Support:
    a. Unanimous Consent
    b. Supermajority
    c. Majority
    d. Minority

12. Barriers to consensus, if applicable (less than unanimous consent):
    a. Description of barrier #1
    b. Description of barrier #2
    c. Etc.