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ASSIGNMENT OF TOP PRIORITY RESIDENTIAL, COMMERCIAL AND INDUSTRIAL (RCI) OPTIONS FOR ELABORATION AND ANALYSIS

Revised for the Technical Working Group (TWG) Call #6, August 10, 2006, based on CAPAG input from meeting#3 (July 25, 2006), TWG input received during Call #6 (August 10, 2006), Call #5 (July 10, 2006), and Call #4 (June 29, 2006).

David Von Hippel and Alison Bailie, CCS

Notes in the Table below summarize TWG “votes” on high priority options and provides brief descriptions of decisions were made at June 29 meeting. By TWG consensus, all options receiving 5 votes or more were designated by the TWG as “high priority” options, and the TWG agreed that options receiving less than 5 votes would be discussed further, including as candidates for consolidation with high priority options. Results of further discussions carried out during the 7/10 TWG call appear in yellow highlights below. Text in blue highlights was added based on input made by attendees at the CAPAG meeting #3 (July 25, 2006). Finally, text in green highlights reflect changes made during the 8/10 TWG call.

Option No.	GHG Emissions Reduction Option	Vote	Decisions from June 29, July 10, and August 10 TWG meetings and from CAPAG 7/25 meeting.	Comments from TWG members' "Ballots" with Summary Comments from 7/10 and 8/10 TWG Calls (highlighted)
A.1 (now RCI-1)	Demand Side Management Programs for Residential, Commercial and Industrial sectors	7	High CAPAG approved with change to name, as indicated in option name here.	Focus should be on cost effective efficiency improvements that are long lived and require minimal proactive input from the customer once in place.
A.2 (now RCI-2)	Expand Energy Efficiency Funds	6	High CAPAG approved with suggestion of considering consolidation with RCI-3	This is my second highest priority The CAPAG suggests reviewing the interplay of approaches in RCI-1 through RCI-3 when analyzing these options
A.3 (now RCI-3)	Energy Efficiency Requirements	6	High CAPAG approved	I wonder if A.2 and A.3 might be combined
A.4 (now RCI-4)	Market Transformation and Technology Development Programs	5	High CAPAG approved	Note: some things currently lumped in C.3 (i.e. OLD 3.2) can also be considered here.
B.1 (now RCI-5)	State Level Improved Appliance and Equipment Efficiency Standards and State Support for Improved Federal Standards	5	High CAPAG considered revision to separate B.1 (RCI-5) into two categories, but ultimately settled on leaving RCI-5 as a single, general option, and encouraging the TWG to identify how to balance the different approaches to improving standards	

Residential, Commercial, and Industrial TWG Summary of Option Priority Assignment, 8/31/06

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C.1 (now RCI-6)	Building Energy Codes	10	High CAPAG approved	This section should include efforts at enforcement and training of codes inspectors We just made some pretty big inroads here. Need to put money in helping do this well-ie. teaching professionals and providing carrots and other sticks besides the code.
C.2	Building Commissioning, Recommissioning, and Retrocommissioning	4	Include as supporting mechanism for C.1 and C.3 (commissioning as part of C.1 and re-/retro- commissioning as part of C.3)	Very important to have verification program in place
C.3 (now RCI-7)	"Beyond Code" Building Design Incentives ¹ and Mandatory Programs, Incorporating Local Building Materials and Advanced Construction	8	High CAPAG approved	This is my HIGHEST priority—market driven programs and mandatory programs and incentives—carrots and sticks. OLD 3.2 is one of the drivers for this being my highest priority vote.
C.4	Support Smart Growth Designs	3	Medium	This option is being considered in TLU as well. As such, leave as medium priority.
C.5	Comprehensive State Survey of Energy and Water Efficiency Features in Existing Residential and Commercial Buildings	2	Include as an important supporting mechanism for A.1, A.3, and A.4	
C.6	Local Building Materials and Advanced Construction Practices	4	Include as part of C.3	Local products help boost industry/tax base so can then do more of other stuff— dislike the name of "Alternative" in this item. How about "Local Building Materials and Advanced Construction Practices" instead?
D.1	Consumer Education Programs	9	D.1 through D.4 are to be consolidated into a single RCI option, designated as High Priority . This option will be developed in coordination with similar options in other TWGs, but its impacts will not be quantified (now numbered RCI-8) CAPAG approved	Items in section D are important but are very difficult to quantify.
D.2	Introduce in Primary and Secondary School Curriculum	4		Could also be combined with D.3 and D.4
D.3	Post-secondary and Specialist Education for Building Energy Efficiency Experts and Related Trades	7		Combine with D.4
D.4	Post-secondary College and University Programs	2		Limit to the options in "old 3.10." Combine with D.3 but this is the higher priority if not combined.
E.1	Review Net Metering Policies and Utility Rate Reform	5	Include net metering as supporting mechanism for G.2 and utility rate reform as supporting mechanism for A.1	

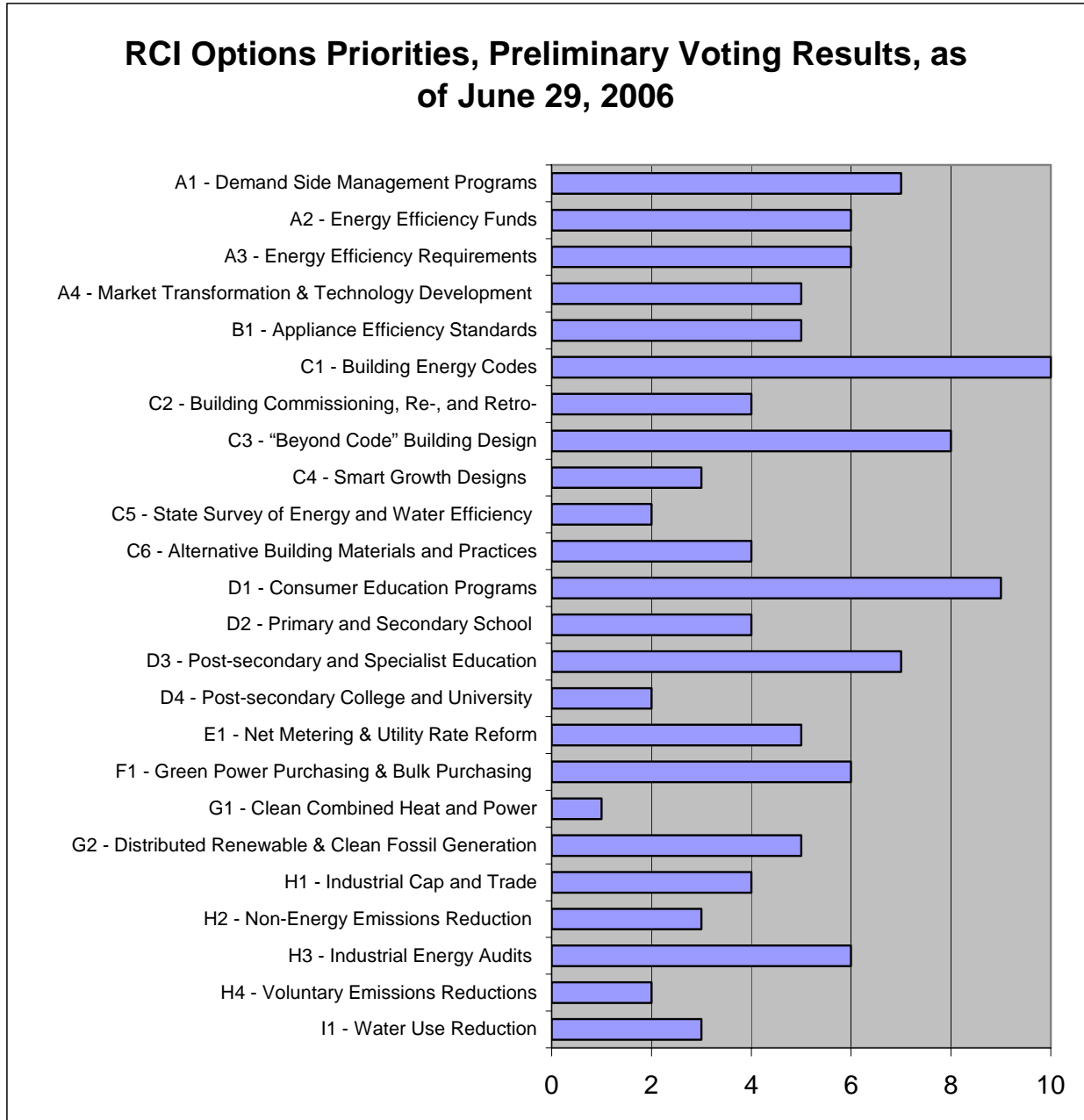
¹ Examples of Building Design Incentives include, but not limited to LEED (Leadership in Environmental and Energy Design, with minimum conditions on energy requirements), zero-carbon buildings, green buildings, NC Healthy Built homes, ENERGY STAR homes.

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F.1 (now RCI-9)	Green Power Purchasing (required for state facilities) and Bulk Purchasing Programs for Energy Efficiency or Other Equipment	6	High CAPAG approved	This could be part of G.2.
G.1	Support for Implementation of Clean Combined Heat and Power	1	Include as a part of G.2	This should be part of the Energy Supply group
G.2 (now RCI-10)	Distributed (consumer-sited) Renewable and Clean Fossil Fuel Power Generation	5	High CAPAG approved	This should be part of the Energy Supply group Include methane capture and use in CHP systems at sewage treatment plants as a specific focus of RCI-10
H.1	Industrial Sector Emissions Cap and Trade Programs	4	Medium	I would combine this with H.3 as one of the potential recommended measures. Federal Government needs involvement here. A State-level program is not desirable, but the TWG supports a National program as an implementation mechanism for other options.
H.2	Non-Energy Emissions Reduction Initiatives	3	Include in H.3	
H.3 (now RCI-11)	Residential, Commercial, and Industrial Energy and Emissions Audits and Recommended Measure Implementation	6	High Include H.2 here so as to include non-energy emissions in a total industrial emissions audit CAPAG approved with change to name, as indicated in option name here.	Focus should be on efficiency improvements that are long lived and require minimal proactive input from the customer once in place.
H.4	Voluntary Emissions Reduction Measures	2	Include as an implementation strategy where appropriate, including in RCI-4, RCI-10, RCI-11	
I.1	Water Use Reduction	3	Include as a specific focus area within RC-5, RCI-11	There is a lot of energy in water use! Conveyance, Sanitizing, Distribution, Transport, etc.

Additional comments from e-mails sent by TWG members with their votes on priority options (included here as reference for further TWG discussions):

- "Need to have uniform GHG impact assessment criteria"
- "Ensure that the NC initiatives do not bring about assessment methods divergent from those being applied on a national level"
- "Application of any reporting mandates, equipment standards or other requirements in North Carolina must be evaluated for their real cost and benefit to the State"



* see table above for full names of options and for TWG member comments