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**DRAFT MEETING SUMMARY
ES Policy Working Group (PWG)
Call #4, April 19, 2007**

PWG Members Attending:

Joe Broz	John Nielsen
Vicki Card	Barbara Roberts
Michael Dowling	Stuart Sanderson / Dianna Orf
Jack Ihle	Richard Smart
Chuck Kutscher	Randy Udall
Ron Lehr	Kate Zimmerman
Tom McKinnon	
Brian Moeck	

Governmental agency liaisons: Elizabeth Brown, NREL
Rocky Mountain Climate Organization: Tom Easley, Stephen Saunders
Center for Climate Strategies: Ezra Hausman, Alice Napoleon
Members of the public: none

Agenda Item #1: Introductions and Roll Call.

Prior to the call, CCS experienced difficulty posting materials to the website. Group participants were emailed files in preparation for the meeting. Two different versions of the PowerPoint presentation were distributed. The version used in the meeting, titled 'FINAL 04-19-07 CO ES PWG Call 4.ppt', was distributed by Ezra Hausman on Apr 17 at 9:00 PM MDT and accounted for a ballot that was emailed on time but not received. There are errata for this version of the presentation. The errata are attached to these meeting notes. In addition, the corrected, final versions of all documents for ES Call #4 will be posted on the website as soon as possible.

To avoid further confusion, members should verify that they have all materials from the call, and that they are working off of the correct versions.

**Agenda Item #2: Review and approval of draft notes from Policy Work Group (PWG)
Meeting #3**

A PWG member was unable to access the summary of Meeting #3. However, no objections were raised, and the summary of Meeting #3 was approved by the PWG.

Agenda Item #3: Final comments/suggestions on GHG Inventory and Forecast (added to originally published agenda)

PWG members were asked for any final comments on the Inventory and Forecast. Some discussion followed on the coal/gas split assumed in the forecast, 75%/25%. As was noted in the previous meeting, the slow down in new proposals for coal plants suggests that a higher ratio may be more appropriate. (e.g., Tri-State's proposed coal unit in Kansas has stalled, and Xcel has no plans for new coal plant development.) A 50/50 split was proposed but not unanimously accepted by the group, reflecting concern that continental gas production has peaked and would be seen as too volatile a fuel source for baseload capacity additions. Vicki Card, Brian Moeck, and Jack Ihle, with input from Xcel's resource planning group and John Nielsen, will research the reasonableness of a 60/40 split and report back to the group at the May 4 meeting.

Agenda Item #4: Discussion of policy option balloting results (Item #3 on originally published agenda)

Ezra Hausman described the results of the balloting process and how the results would be used. Voicing strong and widespread concern with the limited scope of the policy options that made the top 10, participants on the call decided to vote on a supplemental list of policy options for priority consideration. Six policy options were voted on; of these six, four will be presented to the Climate Action Panel (CAP) as additional recommendations for further analysis. These four will be marked as options chosen separately from the balloting process. They are:

- Small new hydro & efficiency improvements at existing hydro (ES-11)
- Nuclear Energy (ES-12)
- Efficiency Improvements for Existing Generators (includes heat recovery) (ES-13)
- Oil and Gas Operations (ES-14)

The other two options that received less votes than the four additional options recommended for further analysis were:

- Standards for new power plants (ES-6D)
- Standards for existing power plants (ES-6E)

The four additional options will be presented to the CAP as "supplemental" priority options recommended by those 13 members of the PWG who were on the April 19 call. It will be up to the CAP to decide which options to move forward into the analysis phase.

A member suggested voting to eliminate the carbon tax or cap & trade regulation, because of feasibility concerns. The group decided against such an action.

The PWG began taking volunteers to begin drafting straw proposals for each of the 14 recommended policy options (including the 10 selected by the PWG member ballot and the additional four voted in during Call #4). All PWG members are expected to participate in drafting at least one of the policy options. Two of the policy options have only one volunteer each (ES-5, Public Benefit Charge Funds, and ES-8, Pricing and Rates). The group tentatively nominated Wade Troxell to be the primary contact for ES-6 (Incentives for CHP, DG, Smart Grid), and John Poate & Craig Cox for ES-9 (R&D for DG & Renewables, Advanced Fossil Fuel; primary contact tbd), subject to confirming availability and willingness as these members were not on the call. Additional volunteers are needed for all of these policy options. PWG members who have not yet volunteered to work on a policy proposal should contact the “primary contact” for the policy they wish to work on, and please let Ezra (ehausman@synapse-energy.com) and Alice (anapoleon@synapse-energy.com) know. The list of primary contacts and volunteers for each policy option is attached to these notes.

Volunteers are asked to begin working on the straw proposals by drafting mitigation option descriptions and text on option design, the first two sections of the mitigation option template. The CO ES mitigation option template and samples from the CO AFW group and the New Mexico ES group were emailed to PWG members on Friday, April 20. (See page 4 of the NM ES document, sections 1a and 1b in particular.) Volunteers should organize themselves for this but should contact CCS for assistance, as needed.

Straw proposals are the product of the entire group. Primary contacts are asked to circulate mitigation option descriptions and design drafts to the entire ES PWG (including to CCS) no later than Thursday, April 26. Members should review drafts on all of the options and provide comments to the relevant primary contacts, Ezra, and Alice by Tuesday, May 1. These comments and suggestions will be noted during the presentation to the CAP.

Agenda Item #5: Next Steps for CAP, PWG

At the next PWG meeting on May 4, the day after the CAP meeting, the group will review the CAP’s selections and move on to production of more complete proposals to be considered by the CAP during its May 22 meeting. Following the May 22 CAP meeting, the analysis phase will begin.

Agenda Item #6: Agenda, Time and Date for Next Meeting

The fifth meeting of the Energy Supply PWG will be May 4, 2007, from 9:00 am – noon MDT at the National Renewable Energy Laboratory (NREL) offices, Building 17, in Golden. This meeting will be in-person, with an option to participate by teleconference. It is scheduled to follow the May 3, 9:00 am – 5:00 pm, meeting of the CAP, also at NREL. PWG members are welcome but not obligated to attend the CAP meeting.

Agenda Item #7: Public Input and Announcements.

None.

ERRATA FOR POWERPOINT SLIDES

1. On Slide 4, the last bullet point should read, “CCS compiled results & identified top 10 options.”
2. The table on slide 6 is replaced in its entirety with the following:

Balloting Results – Top 10

Consolidation Title		Votes	New Name
ES-1F	Renewable Energy Incentives including Waste to Energy	11	ES-1
ES-1A	Mandated Portfolio Standards	10	ES-2
ES-1H	Transmission Infrastructure for Renewables	11	ES-3
ES-6A	Cost for CO2 Emissions (C&T or tax)	10	ES-4
ES-1E	Public Benefit Charge Funds	9	ES-5
ES-2A	Incentives for CHP, DG, Smart Grid	9	ES-6
ES-3B	Carbon Capture & Storage Infrastructure	10	ES-7
ES-5D	Pricing and Rates	8	ES-8
ES-2C	R&D for DG & Renewables, Advanced Fossil Fuel	8	ES-9
ES-3A	Promote advanced fossil fuel generation with carbon capture, including IGCC	8	ES-10

(ES-1G, Address Regulatory Hurdles for Renewable Energy, did not make the top 10.)

PRELIMINARY STRAW PROPOSAL VOLUNTEERS

(PWG members who are not on the list should contact the “primary contact” for the policy they wish to work on, and please let Ezra and Alice know.)

Priority Options from Balloting

	Policy option	Options from Catalog	Primary contact	Other volunteers
ES-1	Renewable Energy Incentives including Waste to Energy	1.5, 1.10	Chuck Kutscher	John Nielsen, Kate Zimmerman
ES-2	Mandated Portfolio Standards	1.1, 1.11	Randy Udall	Ron Lehr
ES-3	Transmission Infrastructure for Renewables	5.6	Ron Lehr	Brian Moeck
ES-4	Cost for CO2 Emissions (C&T or tax)	6.1, 6.2	Michael Dowling	Vicki Card, Jack Ihle, Tom McKinnon, John Nielsen
ES-5	Public Benefit Charge Funds	1.4	Randy Udall	
ES-6	Incentives for CHP, DG, Smart Grid	2.1, 2.4, 2.8	[Wade Troxell – not confirmed]	
ES-7	Carbon Capture & Storage Infrastructure	3.2, 3.6, 3.9	Jack Ihle	Tom McKinnon, John Nielsen
ES-8	Pricing and Rates	2.5, 5.8	Brian Moeck	
ES-9 ¹	R&D for DG & Renewables, Advanced Fossil Fuel	2.7, 1.8, 3.3, 3.5	[Craig Cox - not confirmed]	Chuck Kutscher [Heidi VanGenderen & Dag Nummedal - not confirmed]
ES-10 ²	Promote advanced fossil fuel generation with carbon capture, including IGCC	3.1, 3.4, 3.7, 3.8	Jack Ihle	Chuck Kutscher, Tom McKinnon, John Nielsen, Dianna Orf

¹ Note that this policy option was incorrectly labeled ES-10 on slide 8 of the April 19, 2007 Powerpoint presentation for call #4.

² Note that this policy option was incorrectly labeled ES-11 on slide 8 of the April 19, 2007 Powerpoint presentation for call #4.

Additional Policy Options from Call #4 Vote

	Policy option	Options from Catalog	Primary contact	Other volunteers
ES-11	Small new hydro & efficiency improvements at existing hydro	1.12, 1.13, 1.17	Richard Smart	Vicki Card
ES-12	Nuclear Energy	4.1	Tom McKinnon	Michael Dowling, Chuck Kutscher, Tom McKinnon
ES-13	Efficiency Improvements for Existing Generators (includes heat recovery)	5.1, 5.7	Jack Ihle	Brian Moeck
ES-14	Oil and Gas Operations	8.1, 8.3	Kate Zimmerman	Michael Dowling [Chris Williams - not confirmed]