



**MEETING SUMMARY**  
**NORTH CAROLINA CLIMATE ACTION PLAN (CAPAG) TECHNICAL WORK**  
**GROUP (TWG)**  
**Residential, Commercial and Industrial (RCI) TWG Call #4,**  
**June 29, 2006, 10:30AM-12:00PM**

**Attendance:**

1. Technical Working Group members:

John Calgani	NCDENR Division of Pollution Prevention
Kristen Coracini	Environmental Defense
Steve Halstead	North Carolina Council of Churches
Len Hoey	NC State Energy Office
Gary Hunt	NDENR Pollution Prevention and Sustainability
Edward Kreul	International Paper
Ward Lenz	Advanced Energy
James McLawhorn	NC Utilities Commission
Steven McNulty	USDA Forest Service Southern Global
Jeff Tiller	Appalachian State University
Mitch Williams	Progress Energy
2. Center for Climate Strategies (CCS) staff:

Alison Bailie	TWG Facilitator
David Von Hippel	TWG Facilitator
3. North Carolina Department of Environment and Natural Resources Division of Air Quality (DENR DAQ) Liaison and Attendees:

Patrick Butler	RCI TWG Liaison
Charles Davis	RCI TWG Liaison
Gary Saunders	DAQ Observer
4. Public Attendees:

None
5. Observers:

None

**Background documents:**

(posted at [http://www.ncclimatechange.us/Residential Commercial Industrial.cfm](http://www.ncclimatechange.us/Residential_Commercial_Industrial.cfm))

1. Agenda,
2. Summary for Call #3
3. PowerPoint presentation for meeting,
4. Catalog of State Climate Mitigation Options, updated to include input from last TWG call and from CAPAG meeting (May 23, 2006)
5. CCS Memo to TWG on “Consolidation of Catalog of North Carolina RCI Options”
6. NC GHG Inventory and Reference Case Projections 1990-2020
7. CCS Memo to TWG on “Assignment of Top Priority Residential, Commercial and Industrial Options for Elaboration and Analysis,” sent by e-mail prior to call.
8. CCS Memo to TWG on “Assignment of Top Priority Residential, Commercial and Industrial Options for Elaboration and Analysis, Preliminary results of voting on Priorities,” sent by email prior to call.

### Agenda

1. Call to Order
2. Roll Call of TWG Members
3. Review and approval of call #3 summary (June 6, 2006)
4. Continue review and discussion of the draft North Carolina greenhouse gas (GHG) emissions inventory and forecast for the Residential, Commercial and Industrial Sectors
5. Discussion and draft consolidation of catalog of North Carolina RCI Climate Mitigation Options
6. Discussion and results of initial vote on priorities for elaboration and analysis for RCI options
7. Comments from the public
8. Proposed agenda items for next meeting (scheduling)
9. Announcements

### Discussion Items and Key Issues:

1. Call to order and introduction of Technical Workgroup Members (TWG) and Attendees  
David Von Hippel started the meeting at 10:35 am on June 29, 2006 with attendee roll call and introductions of members and other attendees. David reviewed the agenda for the day’s meeting and asked for comments on the Meeting Summary for the June 6, 2006 Technical Workgroup Meeting. TWG members had no comments on the Summary, and the Summary was accepted.

2. Alison Bailie led the PowerPoint presentation for the TWG:
  - Comments were made regarding the graph of “NC GHG Emissions 1990-2020” on slide 7. Alison pointed out that emissions during the period from 1990 to 2003 were graphed from available information. GHG emissions graphed from 2003 going forward are projections based on recent trends and/or using assumptions derived from state, regional, or national studies. Other issues noted were that the RCI emissions graphed are from direct fuel use and that the ODS Substitutes are small now but show future growth. A question was asked as to whether the graph accounted for emission reductions from future attainment requirements for PM and ozone (assuming that a reduction in PM & ozone might correlate to a change in net greenhouse gas emissions) in the State Implementation Plans (SIPs). Alison said that ideally they would be considered, but she was not certain whether they had been in the current draft inventory. Alison said she would follow-up on this question and report back to the group.
  - Comments were made regarding the information on slide 16 “RCI – Natural Gas Transmission & Distribution”. It was pointed out to the group that emissions of GHGs from this sector would be relatively low (approximately .05 MMT CO<sub>2</sub>e per year).
  - There was discussion over the ODS Substitutes graphed on slide 21 titled “Industrial Processes”. The graph shows a rapid increase in GHG emissions from 1993 to 2020. Alison explained to the group that the graph does not account for emissions of CFCs (chlorofluorocarbons) currently in use, even though CFCs are potent greenhouse gases, being used mainly because CFCs are covered as ozone depleting substances under the Montreal Protocol, and as such the emissions accounting conventions used for the inventory and forecast do not include them under greenhouse gas emissions. Discussions ensued over how to include the GHG emissions from the CFCs in the graph. It was also suggested that if the CFCs could be graphed that it may show a decline in the overall GHG emissions. The group decided that the best thing to do is to “flag” this data with comments so that the graph can be better understood.
3. David led the discussion regarding the consolidation of the catalog of NC RCI Mitigation Options. David asked whether the group found the consolidation efforts helpful. It was stated that it helped because it was easier to cast 10 votes on 24 options as opposed to 10 votes for over 60 options. A suggestion was made to the group that since all TWGs would have education on their list of options that perhaps “education & outreach” could be moved to the Cross-Cutting TWG. The group was not in favor of doing this because education and outreach has specific meaning to the RCI TWG, and the TWG wanted to provide its own point of view on Education-related issues to the CAPAG.

The group had no objections to the consolidation of the options list. David asked what the group’s thoughts on different strategies for incorporating the “old” options list into the new consolidated list. The group was in favor of retaining the old list because it contains useful data about each option prior to the consolidation process. It was then

suggested that perhaps the new consolidated list could be designed so as to provide brief descriptions of the consolidated options, but, thought electronic links, also include the more detailed materials already compiled in the old list. David and Alison agreed to draft a new consolidated list including the old data, probably following the next (7/10) TWG meeting after further consideration is given to the consolidated list.

4. David then led discussions concerning the voting. David informed the group that 12 out of about 15 RCI TWG members had voted (representing an 80% response). The group is to be commended for this! Preliminary results of the voting on priorities were sent to the group via e-mail. Voting results were also graphed on a bar chart such that the results were easily discerned. One member's votes were not included in the graph, so David read the latest results to everyone.

After some discussion, it was suggested to the group that any option receiving 5 or more votes be considered high priority. This equates to 13 high priority options for the group to focus further effort. The group agreed to this recommendation.

Discussion then turned to the options that did not make the high priority list to explore if they should be high priority, could be consolidated with other options, or should remain as medium or low priority.

Several members noted disappointment that some education options (for example, *D2 Introduce in Primary and Secondary School Curriculum*) received less than 5 votes. Charles Davis noted that the cross-cutting TWG would also be considering education. There was some discussion about having the RCI TWG drop education options (D1 – D4) from the list of options and let cross-cutting take the lead. Other members were concerned that RCI issues might be lost if that happened. The group decided to keep the education options on the RCI list for now but to consolidate the four options into 1.

The group also discussed what to do about option *E1 – Review of Net Metering Policies and Utility Rate Reform* – some members felt this aspect had already been covered in NC, while others felt it could still be helpful in achieving GHG reductions. The group decided that the option might make more sense as a supporting mechanism for other options. So E1 was consolidated into other options; Net Metering policies are to be included as a supporting mechanism for *G2 – Distributed Renewable and Clean Fossil Fuel Power Generation*, and Utility Rate Reform is to be included as supporting mechanism for *A1 – Demand Side Management Programs*.

The group then discussed option *C2 – Building Commissioning, recommissioning and retrocommissioning*. This option received 4 votes but the activity was seen as important, particularly in addressing emission reductions from existing buildings. The group decided that Building Commissioning should be included as a supporting strategy for *C1 – Building Energy Codes* and Building Recommissioning and Retrocommissioning should

be included as a supporting strategy for C3 –“*Beyond Code*” *Building Design and Mandatory Programs*.

5. Call to the Public and Announcements. There was no one from the public in attendance. The workgroup was reminded that the next full CAPAG meeting (CAPAG Meeting #3) will be held at the RDU Airport Authority Building (same location where CAPAG meeting #2 was held) on July 25, 2006 (more information will follow on the specifics).

### **Next Steps and Agreements**

1. CCS is to follow-up on the question as to whether the graph (NC GHG Emissions 1990-2020) accounted for any relevant greenhouse gas emission reductions from future attainment demonstrations for PM and ozone in the State Implementation Plans (SIPs).
2. CCS is to “flag” the data regarding ODS Substitutes graphed on slide 21 titled “Industrial Processes” indicating that the graph does not account for CFCs currently being used.
3. CCS is to see if it is feasible for the “new” consolidated RCI Mitigation Options list to contain electronic links to the data from the “old” RCI Mitigation Options list so that important descriptive information will not be lost.
4. The high priority consolidated mitigation options will be discussed at the next TWG call on **Monday July 10, 2006 from 10:30 am to 12:00 pm**. The call will also include discussion of the treatment of other consolidated options not yet designated as high priority.