

South Carolina Climate, Energy and Commerce Advisory Committee

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AFW Technical Working Group
Meeting #10

February 12, 2008

Office of the Governor
The Center for Climate Strategies

Agenda

- Call to order and roll call
- Review and approval of previous call summary
- Review of draft policy options document
- Discussion and recommendations for the Draft South Carolina Emissions Inventory & Forecast
- Date, time, & agenda items for next meeting
- Public input and announcements

Stepwise Planning Process

1. Develop inventory and forecast of emissions
2. Identify a full range of possible actions
3. Identify initial priorities for analysis
4. Develop straw proposals
5. Quantify GHG reductions and costs/savings
6. Evaluate externalities, feasibility issues
7. Develop alternatives to address barriers
8. Aggregate results
9. Iterate to final agreements
10. Finalize and report recommendations

Quantification of Options

- Review of Draft Policy Options Document (final review before CECAC Meeting #5)
- See AFW Policy Options Document
 - Posted online and distributed via e-mail

Next Steps: TWG Input

- TWG Members who have not yet done so, are asked to provide text for the following sections:
 - ****Implementation Mechanisms****
 - Related Policies/Programs in Place
 - Key Uncertainties
 - Additional Benefits and Costs
 - Feasibility Issues

Next Steps: Development of Priority Policy Options

- Design Template / Matrix
 - Policy description
 - Policy design (derived from design options matrix)
 - Potential implementation mechanisms
 - Related policies/programs in place
 - Type(s) of GHG reductions
 - Estimated GHG savings and cost per MTCO_{2e}
 - Key uncertainties
 - Types of additional (non-GHG) benefits and or costs
 - Description of feasibility issues, if needed
 - Status of group approval
 - Level of group support
 - Barriers to consensus

Next Steps: Dates for Remaining CECAC and TWG Meetings

Scheduled CECAC Meetings:

- Meeting #5: Friday, February 22, 2008
- Meeting #6: Friday, May 9, 2008
 - Meeting Time: 10:00 am – 5:00 pm

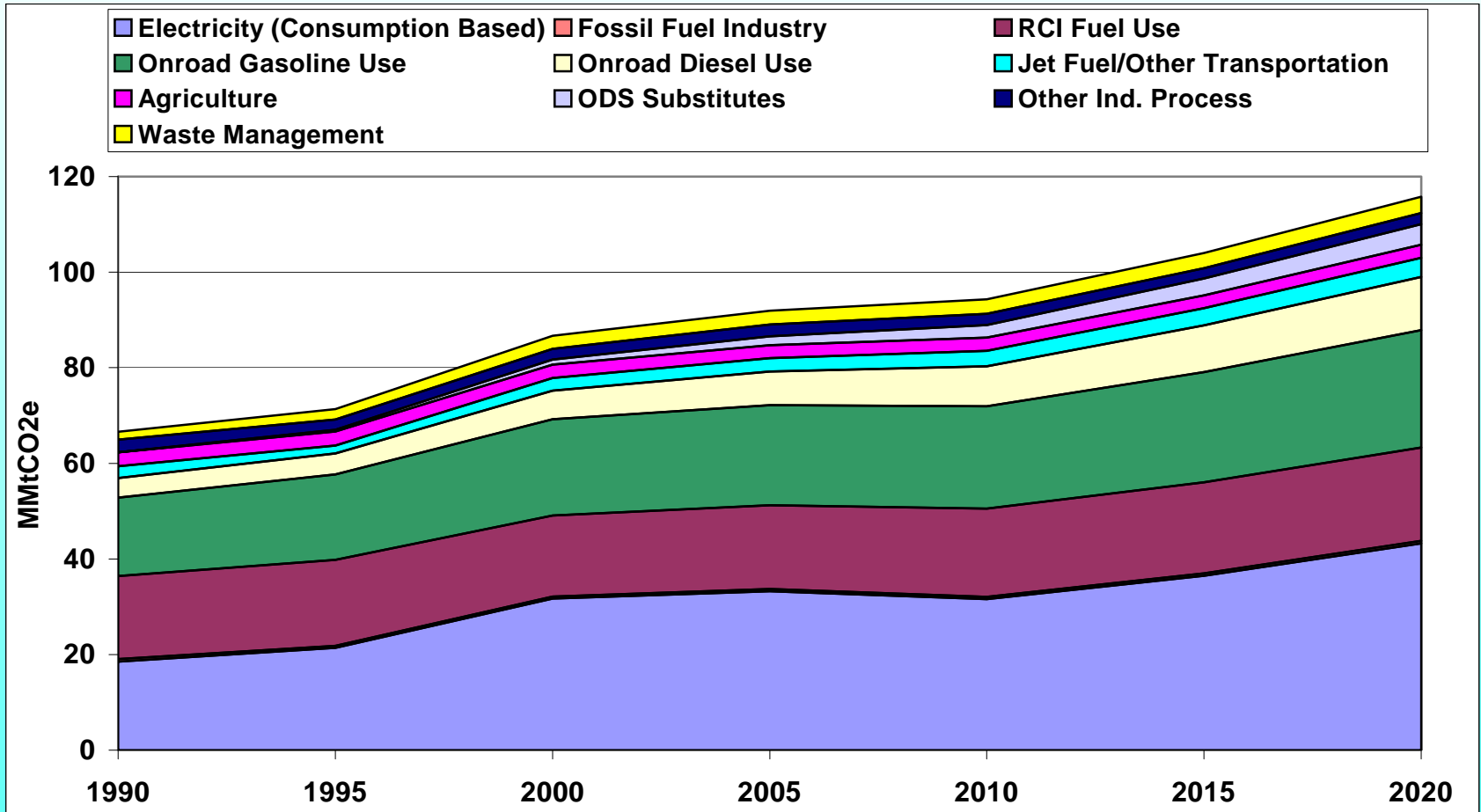
Scheduled TWG Meetings:

- Meeting #10: Thursday, March 6, 2008
- Meeting #11: Thursday, April 17, 2008 (if necessary)
 - Meeting Time: 10:00 am – 11:00 am (Waste Management)
 - Meeting Time: 2:00 pm – 4:00 pm (Agriculture and Forestry)

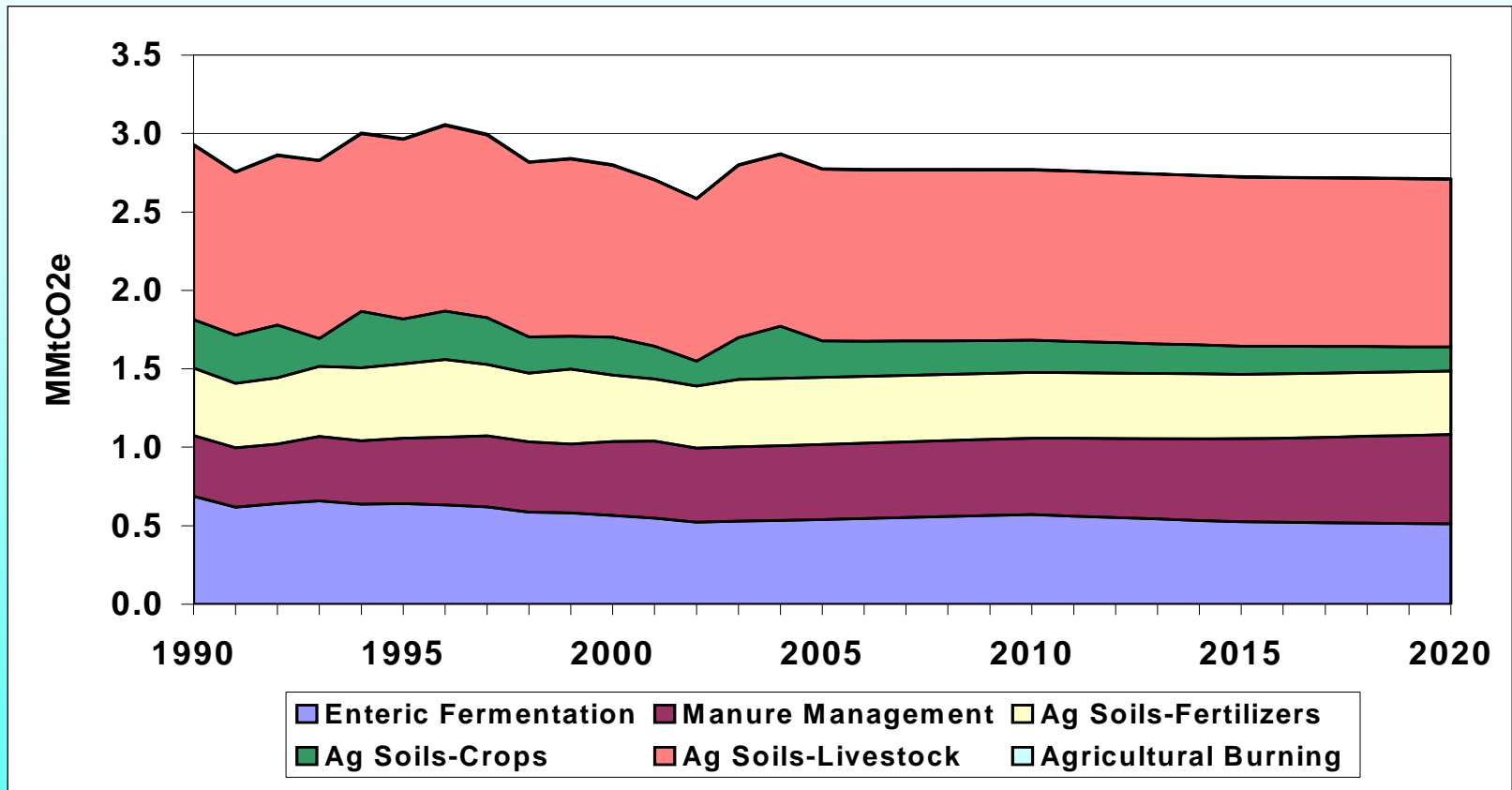
Draft GHG Inventory & Forecast

- AFW appendices posted on website

South Carolina Gross GHG Emissions By Sector, 1990-2020



Agriculture



Agriculture

- Data Sources
 - Crop Production: USDA/NASS
 - Livestock: USDA/NASS
 - Fertilizer: Fertilizer Institute
- Methods
 - Crops: SGIT emission factors and crop production data
 - Livestock: SGIT emission factors and livestock populations
 - Fertilizer: SGIT fertilizer consumption
 - Livestock population projections based on methods from VISTAS Regional Planning Organization inventory
 - Projections for other categories based on historical growth trends

Agriculture

- Key Assumptions
 - Future growth for agricultural soils will follow historical trends
 - Livestock population growth will follow national trends (VISTAS inventory uses USDA projections for most livestock categories)
- Key Uncertainties
 - Manure management emission factors derived from limited data sets
 - Livestock numbers based on point estimates for each year to represent populations that fluctuate throughout the year
 - Projection assumptions

Forestry

Forest Pool	Carbon Flux (MMtC)	Carbon Flux (MMtCO₂) (negative number = net sink)
Live Tree	-4.7	-17
Understory	-0.2	-0.8
Standing Dead & Down Dead	-0.4	-1.5
Forest Floor	-0.04	-0.15
Soil Carbon* (data subject to change)	7.6	28
Harvested Wood Products	-2.5	-9.0
Totals	-0.3	-1.0
*Totals (excluding soil carbon)	-7.8	-28.5

Totals may not sum exactly due to independent rounding.

Data source: Jim Smith, USFS, personal communications with S. Roe, CCS, November 2006 and February 2007.

Forestry

- Data Sources
 - USFS carbon stock data for 2001-2005 based on FORCARB2 model
 - USFS also provides modeled estimates for harvested wood products
- Methods
 - Forestry: USFS FORCARB2 carbon stock change model provides carbon pools for each inventory cycle
 - Flux calculated for each pool based on difference in time between inventory cycles
 - Carbon pool data for the 2001-2005 time-period

Forestry

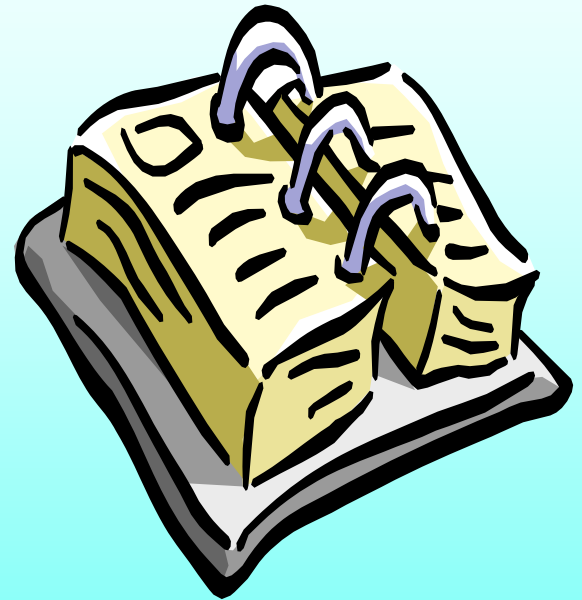
- Key Assumptions
 - 2001-2005 carbon stock change representative of current and historical conditions
 - No significant change in sequestration from 2006-2020
- Key Uncertainties
 - Effects of future development on forested acreage
 - Effects of near-term climate change on forest sequestration levels

Next Steps

- Submit text for Policy Options Document.
- Revise Policy Options Document based on comments from CECAC.

Next TWG Meeting

- Date and Time
 - Next Scheduled: March 6, 2008; 2:00PM to 4:00 PM.
- Future Meetings
 - CECAC: Feb. 22, May 9
 - AFW TWG: March 6, April 17
- Agenda:
 - Review quantification of costs and benefits.
 - Review CECAC comments.



Public Input, Announcements