



Governor's Action Team on Energy and Climate Change
State of Florida

FLORIDA ENERGY and CLIMATE ACTION TEAM

Agriculture, Forestry, and Waste Technical Work Group (TWG)
Notice of Teleconference Meeting, Call #11
August 26, 2008
10:00 AM – 1:00 PM EDT

Attendance:

1. Technical Working Group members:
Marc Bruner, Doria Gordon, Eugene Jones, Jay Levenstein, Amy Boyson
(for R. David McConnell), Gary Peter, Dan Roach, Andrew Walmsley,
Celeste White, Nick Wiley, (Doug Parsons & Chris Winn)
2. Center for Climate Strategies (CCS) staff:
Steve Roe, Rachel Anderson, Brad Strode, Jennifer Jenkins, Jackson
Schreiber, Jared Nunery
3. Florida Department of Environmental Protection: James McNeil
4. Florida Agency Observers: Steve Jennins, Jarek Nowak
5. Public Attendees: Bob Krasowski

Background documents:

(all posted at <http://www.flclimatechange.us/AFW.cfm>)

1. Meeting Notice and Agenda
2. Summary of Call #10
3. Power Point Presentation for Teleconference
4. Policy Options Document
5. Updated Inventory and Forecast Appendices
 - a. Forestry

Discussion items and key issues:

1. Steve Roe called the meeting to order, Rachel completed the roll call, and Steve reviewed the agenda and plans for the call.
2. Steve reviewed the Call 10 summary. There were no comments from the TWG and the Call 10 summary was deemed final.



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3. CCS reviewed the Stepwise Planning Process. CCS and the AFW TWG are currently refining the Inventory and Forecast, quantifying the potential GHG benefits and cost effectiveness of each option, and fleshing out the Implementation Mechanisms and Related Policies and Programs in Place.
4. The group reviewed the draft Policy Options document as follows:
 - a. AFW-1: Forest Retention – Reduced Conversion of Forested to Non-Forested Land Uses and the Forest Landscape sub-option of AFW-2 were both already approved and will only have slight changes based on updates to the Forestry I&F.
 - b. AFW-2: Afforestation and/or Restoration of Non-forested Lands. For urban forestry, the secondary canopy goal will offset 3% of metropolitan emissions by 2025. The TWG recommends changing the 10% primary goal to 3%. As the goal is currently written it offsets 3% of 2008 emissions by 2025. Since the goal is static it doesn't take into account changing urban development numbers. The offset is quantified by number of trees. The POD should include language stating that the group looked at both the primary and secondary goals and assessed that they would be similar in terms of outcome. The POD should also include a description under "other" of what is meant by metropolitan carbon emissions. The TWG then discussed the first goal – Forest Landscape the Division of Forestry noted that 2 ½ % over 17 years requires large acres: 6.8 million acres planted by 2025. Members said that that amount of acreage is not available, realistically speaking. The acreage for reforestation is available but the acres for afforestation is in question. Members noted that 200,000 acres are harvested each year. Last year only 50,000 acres were planted because of depressed real estate and home sales. Some incentives will be needed to drive the reforestation because the market is not driving it. There is also a lack of land for afforestation. The afforestation goal is too high. 50,000 acres afforestation goal is ample enough and would equal 850,000 acres total in the policy period. The costs would be for silviculture and plantings and would not include land costs. Currently the analysis uses \$340/acre for afforestation. Members recommended using the following costs instead: afforestation ~ \$275, reforestation ~\$385/acre.
 - c. AFW-3: Forest Management for Carbon Sequestration. The policy now assumes 10% will go into high intensity management. Only 1/3 of land in low intensity will be moved to medium intensity management. The private and public could be quantified separately. 44% of land in public management is in pine plantation. Currently the quantification assumes that half of that land could be managed: i.e. 22% non-federal land. TWG members think 50% seems too high and suggest dropping that to 25% . Members also noted the goal doesn't necessarily need to just focus on pine plantations. Please send any input to Jen and Rachel by COB Thursday, j.jenkins@carbodynamicsllc.com and rachel.anderson@pechan.com.



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- d. AFW-6: Reduced Rate of Agricultural Land and Open Green Space Conversion to Development. Soil carbon data will be added from Nicholas Cumerford. Related Policies and Programs should include the Rural Family lands Act and Florida Forever Act.
 - e. AFW-5: Promotion of Farming Practices that Achieve GHG Benefits. 5A and 5C have been approved by the Action Team. 5B and 5D are going forward as unquantified and the POD has been updated to reflect that.
 - f. AFW-4: Expanded Use of Forestry, Agriculture and Waste Management Biomass Feedstocks for Electricity, Heat and Steam Production. Text for Additional Benefits and Costs was added. The text references the need to comply with existing federal and state non-GHG emissions. Rather than discussing that in terms of future actions, members suggested that section should reference current regulations and compliance that are already in place. Send any information to brad.strode@pechan.com by COB Thursday.
 - g. AFW-8: Promotion of Advanced Municipal Solid Waste Management Technologies (including Bioreactor Technology). The goal uses the following options to achieve the 25% cradle-to-grave reduction goal: additional gas recovery, increase collection efficiency to 90%, collection route adjustment to reduce fuel usage in curbside collection, hybrid fuels and advanced garbage truck technology, and microturbines that can generate electricity at smaller sites. The cost effectiveness came out to \$9/ton CO₂e. CCS noted that for each option we also need to include energy security fuel savings.
 - h. AFW-9: Improved Commercialization of Biomass to Energy Conversion & Bio-Products Technologies. This now includes the addition of the bio-products quantification. The quantification assumed the 150,000 tons of bio-based materials are bio-based plastics that offset fossil-based plastics. The quantification was based on a study that estimated lifecycle GHG reductions and the cost differential of bio-plastics versus fossil-based plastics. The result is a 0.3 MMtCO₂e reduction and a cost savings. This option still needs implementation mechanisms. Currently the only implementation mechanisms refer to bio-solids.
 - i. AFW-10: Programs to Support Local Farming/Buy Local. This is a non-quantified recommendation. No additional language has been added.
 - j. AFW-7: In-State Liquid/Gaseous Biofuels Production. No additional updates have been made.
5. The group reviewed Table 1 – Biomass Supply. The Existing Pine Forests number of 36 million dry tons was thought to be too high. The Division of Forestry noted that 18-20 million wet tons are harvested each year resulting in 9-10 million dry tons. Some fraction of that might be available for energy. There is potential for harvesting materials other than timber, such as understory that is



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routinely burned: about a ½ ton average from each forested acre. 10 million dry tons are timber products and 5 million potentially could come from other forest derived materials. So there could 5-6 million dry tons available for energy above and beyond what is currently being used for forest products including understory and logging residue. The Division of Forestry believes that 20 million green tons harvested per year is sustainable. Member discussed whether timber material that currently is used should be included in the table or just residue above and beyond what is currently used. Members decided that for existing pine forests the table entry will be 9 million with a note that what the wood will be used for will be determined by the market. Within that 9 million there will be tree types whose market rate will be too high for energy facilities to pay.

6. Public comments: Bob Krasowski of the FL Alliance for a Clean Environment, asked if there is a depreciation in forest yield when forest lands are harvested year after year. The Division of Forestry noted that generally speaking there is not a huge decrease in productivity.

Next steps and agreements:

1. The next TWG meeting will be held on Tuesday, September 9th from 10:00 am-1:00 pm.
2. The next FL Action Team meeting is September 17th-18th.
3. Dates for upcoming TWG conference calls and other meetings/deadlines:
 - a. AFW TWG call: September 9th, 10 am – 1 pm
 - b. Action Team Meeting: September 17th-18th
 - c. AFW TWG call: Wednesday, September 24th, 10 am – 1 pm (tentative, pending public notice and input from FL Action Team)
 - d. Action Team Meeting: September 26th
 - e. Final Report due: October 15th