



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 #2
March 10, 2008
1:00 PM – 3:00 PM EST

Attendance:

1. Technical Working Group members:
Jim Alberts, Mike Branch, Marc Bruner, Joe Joyce (in place of Jimmy Cheek), Doria Gordon, Jay Levenstein, Jimmy Oskowis, Gary Peter, Dan Roach, Andrew Walmsley, Celeste White
2. Center for Climate Strategies (CCS) staff:
Steve Roe, Rachel Anderson
3. Florida Department of Environmental Protection: James McNeil
4. Florida Agency Observers: None.
5. Public Attendees: none recorded.

Background documents:

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

1. Meeting Notice and Agenda
2. PowerPoint for Teleconference
3. Florida AFW Options Description
4. Florida AFW Catalog
5. Summary of Call #1

Discussion items and key issues:

1. Steve Roe called the meeting to order, Rachel Anderson completed the roll call, and Steve reviewed the agenda and plans for the call.
2. CCS reviewed Call #1 minutes, and they were approved without change by the group.



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3. At the March FL Climate Action Team meeting, Steve Roe will present the AFW catalog for approval by the Action Team. Our work for today is to go through the catalog and finalize it in preparation for the Action Team meeting.
4. CCS began the Catalog overview and solicited input to both the catalog and options description document.
5. CCS walked the group through each set of options. A question arose about overlap – how do we add options that may overlap with others? CCS said that it is really up to the group how we want to build out the catalog and make it specific for the state of FL. One option is to keep it general at this stage, note overlaps and linkages between option, and then refine the options later in the process, as they are selected for analysis.
6. Section 1: Production of Fuels and Electricity. A member compared 1.1 Ag biomass, 6.1 forestry biomass, and noted we could add a 9.1 waste biomass for heat/steam. He also said we could make a general biomass option. CCS will add a solid waste biomass option and put a note in the options descriptions document that the options are linked. A member asked to put a note on 1.1 to consider potential invasiveness of species when evaluating use of biomass feedstocks. Energy crops could be considered under both 1.1 and 1.2. Change 1.5 from Expand “Use” of Bio-based Materials to “Production/Use”. Change 1.1 from “use” to “utilization.” A question arose whether 1.4 (improving waste energy capture at biomass combustion facilities) might be better evaluated in another working group, such as the Residential, Commercial, and Industrial (RCI) Fuel Supply group. Following discussion, the group decided to retain the option, since it might not receive significant consideration in the RCI TWG. For 1.5 include chemicals as well as materials. Leave reference to building materials in the option descriptions, but remove it from the option title.
7. Section 2: Agriculture – Livestock. Make 2.4 a suboption of 2.1 as well as 2.3 and 2.5. Request to remove 2.6, since it seems biased towards corporate farms. A member noted that FL does not have feedlots like other states.
8. Section 3: Agriculture – Crop Production. 3.4 is focused more on irrigation and improvements in efficiency for energy and GHG reduction. 3.5 is focused more on the prevention of anaerobic soils and subsequent GHG emissions from ponding. TWG members felt that existing programs already cover 3.5. FL has mostly sandy soils and is tiled so this option isn't as applicable in FL as in other states. A note will be included mentioning that it has limited applicability in FL.
9. Section 4: Agriculture – Land Use Change. 4.3 (consolidation of farmland) might represent a threat to small family farms. There was a motion to remove it. CCS will remove it from the catalog and descriptions.
10. Section 5: Agriculture: Farming Practices. Change 5.1 to include energy production in addition to efficiency. No need to specify Organic farming as a specific practice in 5.2.



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11. Section 6: Forestry – Production of Forestry Energy and Materials. TWG member noted that it will take 4 1/2 million tons of wood to create 1% of renewable energy (electricity) portfolio in FL. 6.4 could also apply to the other two sectors as well. 6.4 should be broadened to other new technologies. Improved Commercialization of Biomass Conversion Technologies – gasification, pyrolysis, plasma arc, etc will be noted in the notes column (the name of the policy will be changed to “Improved commercialization of biomass conversion technologies”. 6.5 note certification programs, such as LEED building standards, may have a bias against wood (important to address in implementing an option like this if selected for analysis).
12. Section 7: Forestry – Biomass Protection and Management. 7.4 is a broad option that can look at tailoring a number of forest management programs to enhance productivity and carbon storage. 7.1 could include easements, acquisitions or other approaches to achieve forest conservation. 7.2 Add “City Green” and “I-Tree” software programs into the option description, which are currently being used by municipalities to assess urban tree program benefits. 7.5 add information about prescribed fires as a management approach (including potential for increases in forest soil carbon, which help to offset the initial release of GHGs during the prescribed fire event).
13. Section 8: Forestry – Wood Products and Waste. 8.1 links to 6.1 and 6.3. 8.3 FL (silvicultural improvements) currently has very high compliance with Best Management Practices. So there could be limited applicability for this option in FL.
14. Section 9: Waste 9.1 Expanded use of municipal waste biomass feedstocks for energy and steam (potentially with a focus on yard waste due to limited markets for compost). 9.2 (liquid biofuels production) would mirror 6.2 and 1.2. FL has a significant biomass resource already. Statute requires separation of yard waste from other. Pilot scale ethanol plant being built using cellulosic hydrolysis – planning to use sugarcane bagasse, hurricane-generated waste. Should be up by April/May 2009. 1 million gallons per year of initial production capacity. Previous 9.1 Advanced recycling & composting – the market for recoverable materials has to be there before composting/recycling programs can succeed. This is a huge externality (CCS notes that this is an important area that the TWG would want to address under implementation mechanisms, if this option is selected for analysis).
15. Section 10: Waste Management – Landfill Gas Strategies. Public Service Commission is an externality – recently rejected contract because it could not pay a renewable energy premium (CCS notes that this is an issue that could be addressed in consultation with the Energy Supply & Demand TWG since it might be picked up as part of a renewable energy policy in that group).
16. Section 11: Waste Management – Wastewater Management Activities. 11.4 local gov'ts/counties are prohibiting the land application of biosolids. This is an externality. DEP is also increasing regulations – seems to be going in the other



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- direction to 11.4. TWG decided that 11.4 is not a realistic option and it will be removed. Recommendation to change 11.4 to researching wastewater solids as a biomass energy source, instead of using it as a soil carbon source – move it up to Option 11.1 to mirror the structure in other sectors of the catalog. 11.6 if we develop the biofuels option, algae will be there. Seems like it belongs in Section 1. CCS noted that algal bio-oil could be considered under both areas, since research is looking at algal production on both municipal and agricultural wastewater sources. CCS will include a linkage over to the other liquid biofuels options in the catalog. 11.5 – members haven't heard of it and aren't sure how it would work. CCS responded that it is tied to the use of waste heat off of existing or new biogas combustion units. It will be moved as a subcomponent under 11.3.
17. The next two AFW TWG calls are scheduled for March 26th and April 30th from 1-3 PM – although the second date might change pending input from TWG members. We will review the Action Team's input on the catalog during the next meeting in addition to the inventory and forecast.
 18. Public input: none.
 19. Some members expressed concern on the Inventory & Forecast about forestry data sources and assumptions. CCS asks the members to bring these concerns and ideas for improving the estimates to the next meeting.

Next steps and agreements:

1. The next TWG meeting will be held on Wednesday, March 26th, from 1:00 - 3:00 pm.
2. Next FL Action Team meeting is March 17th where the options catalog will be discussed.
3. Dates for upcoming TWG conference calls:
 - a. March 26th, 1-3 PM
 - b. April 30th, 1-3 PM – likely to be changed.