

Global Bioenergy Partnership

Third Meeting of the Task Force on GHG Methodologies

Report of Sub Group 1

September 25 - 26, 2008

Rome

Report of Sub Group 1

Task:

- ◆ **Develop for recommendation to the Task Force a set of Blue Box questions for:**
 1. **Yellow Box 3: Is there land use change?**
 2. **Yellow Box 4: How is biomass feedstock produced?**

- ◆ **If and where possible, develop answers to Blue Box questions.**

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Overarching issues:

- ◆ Who is the target audience for the Yellow-Box Blue-Box product?
- ◆ How much detail should be requested on data and estimation methods?
- ◆ Treatment of Co-products
- ◆ Setting boundaries on emissions embodied in inputs

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Data availability module for Blue Boxes:

- Are the methods and assumptions used to estimate the above _____ emissions publicly available? Y or N
- If yes, please indicate where.
- Are the data used to estimate the above _____ emissions publicly available? Y or N
- If yes, please indicate where.

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(New) Yellow Box 3 Question: Has land-use change been occurring as a result of bioenergy production?

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Blue Box: Focus on Direct Land-Use Change:

- **Has direct land-use change been occurring as a result of bioenergy production? (Y or N)**
- **If yes, briefly describe the type of direct land-use changes that have occurred. (2 – 3 paragraphs)**
- Are net changes in above ground carbon accounted for?
- Are changes in soil carbon stocks accounted for?
- Are changes in net carbon sequestration in products (such as harvested wood products) accounted for?
- Data module

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Blue Box: Focus on indirect land-use change:

- **Has indirect land-use change been occurring as a result of bioenergy production? (Y or N)**
- **1. If yes, briefly describe the type of domestic indirect land-use changes that have occurred. (2-3 paragraphs)**
 - 1a. Are net changes in above ground carbon accounted for? (Y or N)
 - 1b. Are changes in soil carbon stocks accounted for? (Y or N)
 - 1c. Are changes in net carbon sequestration in products? (Y or N)
 - 1d Data Questions

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Blue Box: Focus on indirect land-use change:

- **2. Are international indirect land-use changes accounted for? (Y or N)? If yes, briefly describe the indirect land-use changes that have occurred (2-3 paragraphs).**
- 2a. Are net changes in above ground carbon accounted for? (Y or N)
- 2b. Are changes in soil carbon stocks accounted for? (Y or N)
- 2c. Are changes in net carbon sequestration in products (such as harvested wood products) accounted for? (Y or N)
- 2d. Data questions

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(New) Yellow Box 4 Question: What sources are included in estimates of GHG emissions from biomass feedstock production on farms and forests?

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Blue Box: Focus on Direct Emissions:

What sources of *direct* GHG emissions are accounted for (check if appropriate)?

- _____ Emissions from operating farm machinery
- _____ Energy used in irrigation
- _____ Energy used in preparing feedstocks (drying grains, densification of cellulosic biomass, etc.)
- _____ Energy used in transport of feedstocks
- _____ CO₂ from lime/dolomite applications
- _____ On-farm N₂O emissions from nitrogen fertilizers (direct, volatilization, runoff/leaching)
- _____ CH₄ emissions from lands (especially wetlands)
- _____ Other (please specify)

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Blue Box: Focus on Embodied Emissions:

What sources of GHG emissions *embodied* in inputs are accounted for (check if appropriate)?

- _____ Emissions embodied in the manufacture of farm machinery
- _____ Emissions embodied in the farm buildings
- _____ Emissions embodied in the manufacture of fertilizer inputs.
- _____ Emissions embodied in the manufacture of pesticide inputs
- _____ Emissions embodied in purchased electricity
- _____ Other (please specify)

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Recommendation to GBEP:

For each Blue Box, identify methodological factors/conditions that would either:

- 1. Ensure GHG emissions estimates meet a (to-be-determined) minimum level of integrity.**
- 2. Allow the overall quality of reported GHG emissions estimates to be assessed.**