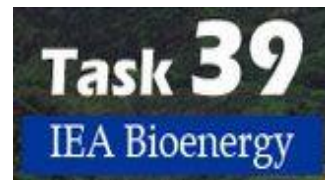




IEA Bioenergy
Technology Collaboration Programme



LCA Activities - Key metrics beyond GHG reduction

Update on Activities

Don O'Connor

Virtual Meeting, November, 2021

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New work: Development of Regional Life Cycle Inventory Data

- Data acquisition is always a challenge for model developers and policy makers.
- Brazilian RenovaBio program is making data for sugar cane production and processing publicly available
- This work will aim to collect data from individual mills as it becomes available, and then aggregate and summarize these data and make this information available to LCA model developers.
- Data from over 65 sugarcane-ethanol mills has been collected so far.

Renovabio Program

- Biofuel producers in Brazil must have their GHG emissions certified by approved parties to be able to generate Cbios.
- The certified GHG data are posted for public comment.
- Once the public comment period is over the production data is removed from the verifiers website.
- Started collecting data in Mid February 2020. Some were posted and removed before we started collecting the data.
- Data on 67 mills has been collected so far. Represents 153 million tonnes of sugarcane.

Status

- A draft report on the findings has been completed and will be circulated to select reviewers for comment this week.

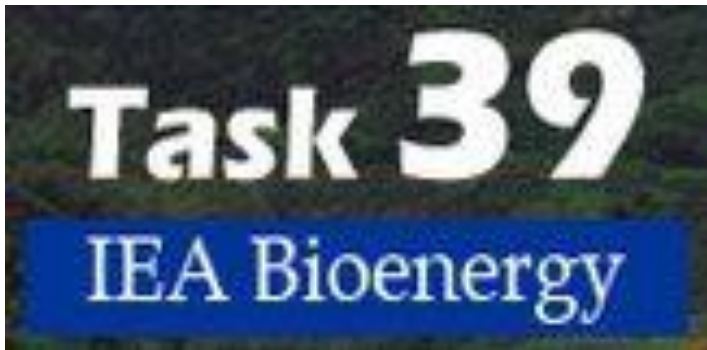
Papers for policy makers

- “Summary Papers for Policy Makers” summarising key factors influencing biofuel LCAs planned.
- Implications of using the various co-product allocation approaches.
 - Have recently completed about 30 LCA reports for clients for some advanced fuels.
 - All were required to use energy allocation.
 - A number of equity/fairness issues came up in the work.
- The inclusion of changes in soil carbon from land management practices is generating a lot of interest.
 - An overview of the approaches used to quantify these changes will be provided.
 - Advantages and disadvantages will be highlighted.

Questions?

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