

Task 34

Direct Thermochemical Liquefaction of Biomass

Task 34 Meeting April 27th, 2023 (videoconference)

18:00-19:00h (CEST)

Recognition of Meeting Participants

Alex Böhm	(AB)	Task Assistant
Axel Funke	(AF)	Task Lead/ NTL Germany (Minutes)
Benjamin Bronson	(BB)	Task Lead Canada
Daniele Castello	(DC)	Alternate NTL Denmark
Francois Collard	(FC)	NTL New Zealand
Mike Thorson	(MT)	NTL U.S.
Murlidhar Gupta	(MG)	Alternate NTL Canada
Phil Bulsink	(PB)	Support for Round Robin at Canmet

Update work packages

WP 1.1: (Pathways to) Transportation fuels from HTL and FPO (PK)

AF will send around the proposed table of contents prepared by PK to all NTLs and requests to send feedback back to him.

WP 1.2: Production of chemicals and materials from HTL and FP oil (MT)

Contribution from BTG was provided, MT will provide a merged version of the report to AF and PK. AF will review/ add within May 2023.

WP 1.3: DTL Oils for gasification (BvB)

Quality parameters have been discussed at KIT to be added to the report. Contribution from KIT will be delayed by one week, i.e. finished by May 5th 2023.

WP 2.2: DTL as BECCS/ BECCU technology (AF)

Troubleshooting has been completed, but some optimisation still ongoing. DC will send around some information on carbon negative fuels from/ with HTL from his new EU project to AF so that it can be considered in the upcoming discussion.

WP 2.3: Hydrogen use for DTL product upgrading (LR/ DC)

Case study based on Silvagreen Project; evaluation of hydrogen consumption added to pilot plant data.

WP 3.1: Round Robin (BB)

Too much sample required to analyse each subsample at CanmetENERGY, especially for solids content (15 g required). PB recommends to follow ASTM standards for the conduction of Round Robins which accounts for biases due to subsampling issues so that there is less need to double-check each sample.

The scope was confirmed (CHN, water, solids, and ICP; ash content depending on the amount of sample required). Also confirmed was preparation of Round Robin by AB/ AF and conduction of Round Robin at CanmetENERGY (BB/ MG/ PB). AB will provide the updated laboratory list to PB once finalized.

WP 3.3: Update commercial DTL facilities (FC)

First draft has been sent around early April to Task members. All NTLs are asked to review projects they are familiar with/ get missing inquiries in their respective countries. Open questions will be discussed in the upcoming Task 34 meeting May 25th, 2023. FC will send around a reminder.

It was decided that all unclear demoplants/ commercial units and/ or those with too little information yet will be collected in the demoplant database excel spreadsheet. After finalization of the commercialization report, this excel sheet will be updated and published; missing information can be followed up consecutively to keep the database updated.

WP 3.4: TEE of DTL biorefinery (AF)

No update.

Other Business

No agenda items were raised.