

Task 34

Direct Thermochemical Liquefaction of Biomass

Task 34 Meeting May 25th, 2023 (videoconference)

06:00-07:20h (CEST)

Recognition of Meeting Participants

Alex Böhm	(AB)	Task Assistant
Axel Funke	(AF)	Task Lead/ NTL Germany (Minutes)
Christian Lindfors	(CL)	NTL Finland
Daniele Castello	(DC)	Alternate NTL Denmark
Francois Collard	(FC)	NTL New Zealand
Lavanya Messala	(LM)	Alternate NTL India
Murlidhar Gupta	(MG)	Alternate NTL Canada

Update work packages

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

Comments regarding the structure of the report have been received and considered. The process of data collection and writing has started.

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

AF has started writing on the missing fast pyrolysis sections and will finalize input by June 2nd, 2023.

WP 1.3: DTL Oils for gasification (BvB)

The contribution from KIT has been integrated and the timeline can be followed without major deviation.

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

Work package is ongoing as planned. There will be change in person assigned to this report by end of May.

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

Additional person assigned to this project that is experienced in the intended methodology, detailed modelling (including time dependent variables) will start in summer 2023.

WP 3.1: Round Robin (BB)

Phil Bultink prepared a proposal for three different Round Robin concepts as next steps. It is clear that availability of feedstocks is the bottleneck and will decide how to follow up. AF asked to check which amounts of FPBO and HTL biocrude can be delivered by the NTLs or from their networks, respectively.

WP 3.3: Update commercial DTL facilities (FC)

Discussed below.

WP 3.4: TEE of DTL biorefinery (AF)

No update.

Discussion of commercial DTL activities

The data compiled was found complete and there were no comments towards the compiled data. For some specific cases the activity of the projects was not entirely clear, MG and AF will check some Canadian and German cases for an update on their status.

It was discussed in more detail how to differentiate between 'commercial' and 'demonstration' unit. FC applied transparent criteria and will add those to the methodology section of the report. Another discussion was around what processes to include since some of the units featured in the report were intermediate and/or possibly slow pyrolysis. The criteria of liquids being the primary product does not seem to be reflecting the situation entirely correct/ appropriate. The current version of the report will be kept and Task 34 will continue discussion to account for observed dynamics in this field to include byproducts (char or liquids) in business cases.

Other Business

AF reported from ExCo91 and outlined the need to develop key areas for the upcoming triennium prior to October 2023. The draft proposal for the 2025-2027 Triennium needs to be finalized by April 2024. AF also noted the need to find a tenure Task 34 management for the upcoming triennium since IEA Bioenergy ExCo guidelines recommend to restrict Task Management to two consecutive terms (which has been reached for AF as task manager). It is possible to do a third term, if nobody is willing to take over, but this has to be documented. The Task 34 audited accounts for 2023 have been approved by ExCo without any major comments.