

# Task 34

## Direct Thermochemical Liquefaction of Biomass

### Task 34 Meeting November 30<sup>th</sup>, 2023 (videoconference)

18:00-19:15h (CET)

#### Recognition of Meeting Participants

Alex Böhm	(AB)	Task Assistant
Axel Funke	(AF)	Task Lead/ NTL Germany (Minutes)
Bert van de Beld	(BvB)	NTL The Netherlands
Bhanu Prasad	(BP)	Alternate NTL India
Christian Lindfors	(CL)	NTL Finland
Daniele Castello	(DC)	Alternate NTL Denmark
Francois Collard	(FC)	NTL New Zealand
Meena Devandra	(MD)	HPCL (for WP 1.1)
Michael Thorson	(MT)	NTL U.S.
Murlidhar Gupta	(MG)	Alternate NTL Canada
Phil Bulsink	(PB)	CanmetENERGY (for WP 3.1)
Pramod Kumar	(PK)	NTL India

#### Use of MS Teams for filesharing

Almost all NTL's encountered strange and varying initial problems, but succeeded in accessing the shared documents/ MS Teams channels. AF requested to check access of channels/ files and report ongoing problems since this platform should be used for future filesharing.

#### Update work packages

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

Work is progressing, a draft version of chapter three has been created. AF will check for comments from BvB, which have not reached HPCL. Circulation among NTLs will be done after comments, version control and other questions have been clarified in a separate meeting.

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

The internal reviewing has been finalized. Most comments to the draft version have been addressed and MT will address one last comment with FC so that the report is finalized. It was agreed that the report is published in January 2024 (after WP 1.3 report).

##### **WP 1.3: DTL Oils for gasification (BvB)**

The internal reviewing has been finalized. There were no remaining comments. The report will be published in December 2023.

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

There is a collaboration planned with other ITP BECCUS participants to join in for a scientific publication. This might affect publication of the report/ case study for the ITP.

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

The case studies conducted cover the regime from BECCU to BECCS. It was suggested that one part could be supplied as case study for the ITP on H2 synergies while another part could be added to the ITP on BECCUS.

DC considers scientific publication of the results and AF will clarify with the ITP lead how this aligns with the ITP timeline (potentially having a confidential case study as a first step).

### **WP 3.1: Round Robin (BB)**

Nine laboratories have agreed to join the Round Robin; PB will update the time schedule to avoid Christmas period since this might lead to additional laboratories. There is not enough DTL oil sample to supply all laboratories for all the intended analyses, and it was decided that analysis of the solids content should be omitted in favour of being able to include sulphur and nitrogen analysis.

### **WP 3.4: TEE of DTL biorefinery (AF)**

Task 42 has started on a TEE based on the Empyro case study that was published last triennium as part of the ITP on High Temperature HEAT for Industry. First results were presented during ExCo 92. AF will try to follow up communication (which still did not take place) to achieve discussion of the case/ results.

### **WP 4.1: Website management (AB)**

The webpage on DTL reactors should be shortened if possible (DC and MT).

### **WP 4.2: PyNe Newsletter (AB)**

AB emphasized that the deadline for submission has passed and contributions should be sent to her by December 6<sup>th</sup> latest.

### **WP 4.4: Country Reports (AB)**

This year's country report should cover Canada, Germany, US. AB reminded of the deadline December 12<sup>th</sup> to hand in reports.

### **Webinars**

AB sent around information requests so that ET Florence can announce the webinar. Specifically the intended time of the webinars should be fixed as soon as possible (AF, DC, MT)

### **Other Business**

AF asks for feedback on HTL future role in the energy system to complete the Task 34 focus contribution to the upcoming IEA Bioenergy Newsletter. Feedback is required by December 4<sup>th</sup>, 2023 (EOB).