

# Task 34

## Direct Thermochemical Liquefaction of Biomass

### Task 34 Meeting February 24<sup>th</sup> 2022 (videoconference)

6am-7:30am (CET)

#### Recognition of Meeting Participants

Alex Böhm	(AB)	Task Lead
Axel Funke	(AF)	Task Lead/ NTL Germany (Minutes)
Bert van de Beld	(BvB)	NTL The Netherlands
Birger Kerckow	(BK)	Operating Agent Task 34, ExCo member Germany
Christian Lindfors	(CL)	NTL Finland
Fernando Preto	(FP)	Representative for Ben Bronson/ NTL Canada
Francois Collard	(FC)	(upcoming) representative for Kirk Torr/ NTL New Zealand
Kirk Torr	(KT)	NTL New Zealand
Lasse Rosendahl	(LR)	NTL Denmark
Mike Thorson	(MT)	NTL U.S.
Pramod Kumar	(PK)	NTL India

#### New Triennium

AF presented the work packages that were included in the proposal for IEA Bioenergy Task 34 Triennium 2022-2024. Next to the work packages identified and developed among the NTL's (of the former triennium), additional work packages were created during the process of finalizing the proposal, primarily to react to emerging inter task projects (hydrogen – biomass synergies; WP 2.3) and respond to collaboration efforts with other IEA Bioenergy tasks (DTL oils for gasification with Task 33; WP 1.3 and Techno-economic and environment assessment with Task 42; WP 3.4).

Table 1: Overview of Work Packages and interest in participation.

No	Title	Interest
1.1	(Pathways to) Transportation fuels from HTL and FP	BvB/ LR/ PK/ FC/ MT/ CL
1.2	Production of chemicals and materials from HTL and FP oil	BB/ BvB/ CL/ FC/ PK/ MT
1.3	DTL oils for gasification	AF/ BvB/ MT
2.1	DTL in the context of flexible power supply	BvB
2.2	DTL as BECCS/ BECCU technology	AF/ LR/ BB?
2.3	Hydrogen use for DTL product upgrading	AF/ LR/ PK/ KT? /BvB?
3.1	Round Robin for validation of analytical method	BB/ CL
3.2	Lessons learnt from FPBO REACH & GHS registration	BvB
3.3	Update commercial DTL facilities	FC
3.4	TEE of DTL biorefinery	AF

The NTL's expressed interest in participation as summarized in Table 1. AF will organize the decision on respective WP leads with the aim to distribute leads among NTL's as evenly as possible/ desired. Furthermore, AF will re-assess the budget of Task 34 based on the actual budget, which deviates from the proposal because two countries that indicated interest in participation finally decided against it.

## **Work Packages from last triennium**

### **1.1 Techno-economic assessment of DTL technologies**

The open issues and how to address them efficiently will be focus of the next Task 34 meeting.

### **2.1 Validation of analytical method**

After evaluating the feedback from potential oil suppliers and participating laboratories it became clear that the scope of the Round Robin needs to be adjusted to the situation. FP will organize that the new information can be discussed in more depth in the upcoming Task 34 meeting.

### **3.1 Report on standardisation of bio-oil/biocrude analysis and application**

The relevant data that is to be evaluated within the scope of this report is still being disclosed by the companies involved in the projects. CL has proposed to an alternative that arises from a special issue that is currently edited by Anja Oasmaa (VTT/ Finland) and Douglas Elliott (former PNNL/ U.S.) because co-processing of fast pyrolysis oil is an important development at the moment. How Task 34 will support this development will be subject of a separate meeting. Consequently, this work package cannot be finalized by End of March.

### **3.2 Technical notes on R&D and commercialisation experiences**

FP announced that there are no resources to conduct this work package at the moment and most likely not before May 2022. AF considers taking over the work package so that it can be resolved soon (pending his availability).

#### **Add 3.1 MSDS - Data**

AF will finalize this work package by End of March.

#### **Add 3.2 Materials Compatibility Workshop**

FP reported that there was too little feedback from stakeholders after sending out the questionnaire for the webinar. Consequently, this webinar will be cancelled. It will be followed up to find out reasons for the low interest (not relevant for industry, level of specialization, targeting audience etc) and based on the outcome it will be considered to make material compatibility a topic of a workshop that is attached to a Task 34 meeting.

#### **Add 3.4 Electrochemistry & Fast Pyrolysis Bio-Oil**

The report has been finalized and will be sent out for review among Task 34 members.

## **Meeting in Finland at VTT**

The meeting is planned adjacent to Pyro2022 (Ghent/ Belgium). AB will send around a doodle poll to decide on the exact dates. It will be at 1 ½ day meeting including a workshop.

## **Other Business**

KT will be absent for one year starting from March 2022. FC will be taking over his duties as NTL New Zealand during this time.

AB asked all NTL's to start looking for contributions to the upcoming PyNe (due June 2022). This is a very urgent matter since there are no pending contributions, yet.