

Task 34

Direct Thermochemical Liquefaction of Biomass

Task 34 Meeting June 29th, 2023 (videoconference)

20:00-21:00h (CEST)

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
Christian Lindfors	(CL)	NTL Finland
Daniele Castello	(DC)	Alternate NTL Denmark
Francois Collard	(FC)	NTL New Zealand
Mike Thorson	(MT)	NTL U.S.
Murlidhar Gupta	(MG)	Alternate NTL Canada

Update work packages

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

No update.

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

MT is about to combine and will give feedback on missing input.

WP 1.3: DTL Oils for gasification (BvB)

BvB will prepare a draft version for review after summer.

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

AF will prepare the data from the simulation for discussion in the upcoming meeting


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

DC plans finalizing this year and work will most likely start after summer break.

WP 3.1: Round Robin (BB)

No comments have been raised for the proposed RR proposal. It was decided to stick to the subsampling and ICP scope and keep the proposed heteroatom analyses for future studies.

- MG can provide hardwood derived FPBO
- MT can provide algae derived biocrude and possibly sewage sludge derived biocrude; also FPBO from Biogas Energy
- DC will check for biocrude availability
- FC can provide catalytic pyrolysis bio-oil.
- BvB can also provide commercial grade FPBO
- CL will check availability for straw derived FPBO



MG will send around shipping address so that above mentioned samples can be sent to CanmetENERGY. Best sample size should be 5 L, but any sample 1-3 L is still reasonable. Samples should ideally arrive before September 2023 at CanmetENERGY.

WP 3.3: Update commercial DTL facilities (FC)

Agreed for publication.

WP 3.4: TEE of DTL biorefinery (AF)

No update.

WP 4.1: Website management (AB)

DC and MG will be added as alternate NTLs to the website.

DC will write a webpage about HTL reactors after the summer break.

WP 4.2: PyNe newsletter (AB)

There are enough articles and AB will publish the PyNe 53 in the upcoming days.

Other Business

Next task meeting

Meeting at NREL in Golden/ Colorado will take place November 2nd/ 3rd 2023. The venue address is 15027, 15099 Denver W Pkwy, Golden, CO 80401. Airport will be Denver and the recommended hotel is: 1717 Denver West Marriott Blvd, Golden, CO 80401.