Task 34
Direct Thermochemical Liquefaction of Biomass

Task 34 Meeting March 31st, 2022 (videoconference)

20pm-21:30pm (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
Christian Lindfors	(CL)	NTL Finland
Daniele Castello	(DC)	Representing Lasse Rosendahl (LR)/ NTL Denmark
Francois Collard	(FC)	NTL New Zealand
Mike Thorson	(MT)	NTL U.S.
Luc Pelkmans	(LP)	Technical Coordinator IEA TCP Bioenergy
Pramod Kumar	(PK)	NTL India

Decision on work package leads for new triennium

AF presented the results from individual feedback loops with NTLs. The only open work package leads are for WP 2.2 and 2.3, which will decided between LR and AF. DC indicated that their interest would be most likely towards the use of hydrogen for upgrading (i.e. WP 2.3) but final decision is pending.

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

Status remaining work packages from past triennium

WP 2.1 Round Robin
It was decided by the task lead to cancel this work package and allow to concentrate on putting together a meaningful Round Robin in this triennium instead. There have been several fundamental issues encountered that require being addressed (e.g. availability laboratories and DTL oil samples). BB provided a report on this so that it can be followed up more effectively.

WP 3.1 Co-processing report/ standardization
CL will elaborate a new timeline that aims at finalizing by Q2/2022. MT will connect with CL to provide data/ reports by U.S. DOE on this topic.

WP 3.2 Technical Notes
AF decided to take over responsibility for this work package and to finalize by Q2/ 2022.

Add 3.1 MSDS Data
Finalized; reference to existing MSDS data sheets should be given if available (e.g. from CERA)

Discussion on TEA report and how to continue

AF presented the basic structure of the TEA report conducted by Prof Shonnard from Michigan State University and also provided some examples of results/ data analyses. The obvious issues that arise from the TEA data was recognized e.g.

- Much higher capacities than most industrial installations
- Strange tendencies pricing/ yield/ feedstocks
- Using data from different TRL might corrupt a comparison
- Suspicious minimum fuel selling price for U.S. based studies)

It was also very clear that none of the NTL's have the time and/or expertise to follow up on these issues.
AF has contacted Task 42 in the meantime and ask for their opinion. Work will only continue if there is interest from their side; otherwise this will remain an internal report.

Organization face to face meeting in Finland

The draft agenda is as follows:

Sunday evening	Get together
Monday	Full day task meeting
Tuesday morning	Workshop 'What happened last years in Finland', conclude with lunch

It is open to be decided whether to have kind of 'webinar' for the workshop or keep it internal