

Task 34 Meeting October 7th 2021 (videoconference)

6am-7:20am (CEST)

Recognition of Meeting Participants

Bert van de Beld	(BvB)	NTL The Netherlands
Alex Böhm	(AB)	Task Lead
Benjamin Bronson	(BB)	NTL Canada
Axel Funke	(AF)	Task Lead/ NTL Germany (Minutes)
Christian Lindfors	(CL)	NTL Finland
Lasse Rosendahl	(LR)	NTL Denmark
Linda Sandström	(LS)	NTL Sweden
Mike Thorson	(MT)	NTL U.S.
Kirk Torr	(KT)	NTL New Zealand

Report from WP's

A short indication of the progress of all WP's was given (the updated Gantt Chart is attached to these minutes). Most of the work packages will be finalized by the end of 2021. There is a foreseeable delay into Q1/2022 for WP 2.1, 3.2, and 4.3. It was decided by Task lead that WP 2.2 will be cancelled due to limited resources and prioritising completion of other WP's. There is an issue of data publication from companies involved in developing standards for co-processing FPBO in refineries, which might affect completion of WP 3.1.

Discussion of TEA Review (WP 1.1)

The study was subcontracted to Prof Shonnard/ MTU (U.S.). He reviewed several (primarily U.S. based) TEA studies with a DTL scope from 2010 onwards. The report includes a comparison of these studies regarding e.g. minimum fuel selling price and conversion efficiency (energy based). Some correlations were investigated, too. In order to achieve this, parameters of the investigated studies were re-calculated whenever necessary and possible. There are three parts for fast pyrolysis, HTL, and solvolysis, respectively. They all follow the same logic/ structure.

It was consensus among the meeting participants that what is missing in this report is a critical reflection of the value of these TEA studies for other stakeholders e.g. from politics and industry. Notably, there is a mismatch in assumed plant capacity/ actual built plants, a MFSP suspiciously scattering around of 3-4USD for U.S. based studies, comparison of technologies with different maturity, use of GGE/ energy based comparison for different products etc). It was found that such a critical evaluation is required prior to publication and it was decided to follow up on this during one of the first meetings in 2022. I.e. this critical evaluation will be started by Task 34 participants and input from Task 42 is requested to aid with potential methodological issues.

AF will try to request following technical issues with Prof Shonnard:

- Distinguishing different product types, i.e. what product has been produced in which case?
- Why have EU based studies Rogers 2012 and Trippe 2010 not been included?
- Delivery of associated Excel-Sheet

Success story

LS will try to compile the data available to her for the Pyrocell/ Preem joint venture and double-check with the involved companies for publication as success story.

The hydrotreatment center in Alberta/ Canada is not in operation, yet. It remains an interesting case to be featured as success story in future once it will be in operation.

Other business

AB has sent around invitations to all NTLs to provide reviews of DTL related developments over the past three years in each country as input for PyNe 49.

Fast pyrolysis bio-oil and HTL biocrude samples are required for the Round Robin. LR agreed to supply several liters and MT will check availability of HTL biocrude at PNNL. BB will detail exact available amounts (and source) directly with LR and MT before requesting FPBO samples.

All NTL's are requested to prepare Country Report presentations (~10min) for the upcoming two virtual Task 34 meetings.

