

Task 34

Direct Thermochemical Liquefaction of Biomass

Task 34 Meeting May 20th 2021 (videoconference)

8pm-9:20pm (CET)

Recognition of Meeting Participants

Bert van de Beld	(BvB)	NTL The Netherlands
Alex Böhm	(AB)	Task Lead
Axel Funke	(AF)	Task Lead/ NTL Germany (Minutes)
Pramod Kumar	(PK)	NTL India
Christian Lindfors	(CL)	NTL Finland
Linda Sandström	(LS)	NTL Sweden
Lasse Rosendahl	(LR)	NTL Denmark

Report from ExCo87

The audited Task 34 budget from 2020 was approved by IEA Bioenergy ExCo.

Prior to ExCo87 was a workshop to discuss and align the task proposals for the upcoming triennium. The proposal of Task 34 was well received; there will only minor changes necessary to better link existing work packages to other tasks. There is a first indication that seven countries will join Task 34 in the upcoming triennium so that there are no changes to the estimated budget of the proposal.

Report from WP's

All WP leads were asked to give a short indication of the progress of their WP's. The resulting Gantt Chart is attached to these minutes.

More detailed discussion was required around the WP 4.6 Success Story to decide which project to showcase. Based on the current progress it appears best to choose the Pyrocell/ Preem joint venture due to its progress and interest to the community. The Pyrocell plant should be commissioned in autumn 2021 while Preem is testing their FCC for co-feeding FPBO in full scale in summer 2021. BvB and LS will try to gather as much public information as possible.

Other alternative success stories could be the hydrotreatment center in Alberta/ Canada. Steeper is involved with HTL and it seems to be an interesting showcase. Also, there will be a validation of HTL derived jetfuels in a real jet turbine at a Danish airport which also qualifies as success story.

It was decided that Greenfuel Nordic Oy and the Canfor-Licella projects do not qualify as success story at the moment.

AF noted that all Task 34 budget is assigned to the individual WP's except for the participation fee resulting from India joining Task 34 in 2021. However, it is still expected that significant unspent budget will arise, primarily due to limited travel and workshops during the CoVid pandemic. The overall unspent budget is estimated to sum up to around \$70k.

Discussion of new meeting schedule for videoconferences

Upon reviewing the different time zones involved it was decided to schedule future Task 34 videoconferences in a rotating scheme starting 6am, 5pm, and 8pm CET.

Other business

PyNe newsletter articles were discussed and the status of PyNe 48 is as follows:

FPBO phase equilibria/ Ille	Approved/ not received yet	AF
Rise Processum	asked for	LS
RTI (topic?)	to be discussed	JB
Session Summary EUBCE	Approved/ not received yet	BvB
National Research Council of Canada	Approved/ not received yet	BB
New participating country India/Pramod	Approved/ not received yet	PK

Publication will be delayed to early July 2021 due to availability of Alex.

All NTL's are asked to write a short country specific DTL triennium review for PyNe 49, i.e. something like a small country report featuring developments in the past three years.

Previous Task Leads and important contributors will be contacted to gather articles for the planned anniversary PyNe.

Project No.	Topic	Lead	Status	% Work completed	2019				2020				2021				Alarm
					See Note 1	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
1.1	Techno-economic assessment of DTL technologies	Justin Billing	Planning	50%													Red
			Actual														Red
1.2	Contribute to co-processing bio-oil/biocrudes in petroleum refineries Task 39 report	Paul Bennett/Kirk Torr	Planning	100%													Green
			Actual														Green
2.1	Validation of analytical method	Benjamin Bronson	Planning	10%													Yellow
			Actual														Yellow
2.2	Advanced analytical techniques workshop/webinar	tbd	Planning	0%													Red
			Actual														Red
Add 2.1	Validation of methods to determine polar and non-polar components in FP Bio-Oil	Bert van de Belt	Planning	75%													Green
			Actual														Green
3.1	Report on standardisation of bio-oil/biocrude analysis and application	Christian Linfors	Planning	0%													Yellow
			Actual														Yellow
3.2	Technical notes on R&D and commercialisation experiences	Benjamin Bronson	Planning	25%													Yellow
			Actual														Yellow
Add 3.1	MSDS - Data	Axel Funke	Planning	25%													Red
			Actual														Red
Add 3.2	Materials Compatibility	Benjamin Bronson	Planning	10%													Red
			Actual														Red
Add 3.3	Commercialisation Overview	Paul Bennett/Kirk Torr	Planning	100%													Green
			Actual														Green
Add 3.4	Electrochemistry & Fast Pyrolysis Bio-Oil	Kirk Torr	Planning	25%													Green
			Actual														Green
4.1	PyNe Newsletter (6 deliverables)	Alexandra Böhm	Planning	50%													Green
			Actual														Green
4.2	Direct thermochemical liquefaction technologies brochure	Axel Funke	Planning	100%													Green
			Actual														Green
4.3	Website content refresh	Alexandra Böhm	Planning	50%													Yellow
			Actual														Yellow
4.4	Workshops, seminars and/or site visits with key stakeholders (5 deliverables)	Axel Funke	Planning	25%													Red
			Actual														Red
4.5	Success Stories (at least 1)	Axel Funke	Planning	0%													Yellow
			Actual														Yellow
4.6	Country reports (3 deliverable)	Alexandra Böhm	Planning	25%													Yellow
			Actual														Yellow
Add 4.1	Anniversary PyNe	Alexandra Böhm	Planning	0%													Green
			Actual														Green
Add 4.2	Round Robin Archive	Alexandra Böhm	Planning	0%													Yellow
			Actual														Yellow
Add 4.3	PyNe Database	Alexandra Böhm	Planning	100%													Green
			Actual														Green
ITP1	Process heat in industry	Bert van de Belt	Planning	90%													Green
			Actual														Green
ITP2	Flexible bioenergy and system integration	Bert van de Belt	Planning	0%													Green
			Actual														Green

), 25% (underway), 50% (halfway), 75% (most work done), 90% (in final stage), 100% (completed)