

IEA Bioenergy Task 39

Commercializing Conventional and Advanced Transport Biofuels from Biomass and Other Renewable Feedstocks

Virtual Brainstorming Session for 2022-2024 Triennium Project Ideas

Tuesday, 2nd February: North America (9-10:30PM PST; 10-11:30 MST)

Wednesday, 3rd February: South America (2-3:30AM Sao Paulo), Europe (6-7:30AM CET) and Australasia: (10:30-12AM Delhi, 2-3:30PM Tokyo/Seoul; 4-5:30PM Sydney; 6-7:30PM Auckland)

5 minutes	General Introduction; Summary of the collected feedback from the complete questionnaires submitted by Task 39 member countries (Jim McMillan)
25 minutes	Current projects in the 2019-2022 triennium that will likely continue in the next triennium 1) Technoeconomic Analysis (TEA) of biofuels production • Link to T42 assessment methodology, Link to T34 intermediates (Ravi Gupta/Franziska Mueller-Langer) 2) Phase 2 of Lessons Learned Biofuels InterTask project • Relevant objectives and further intertask activities also in line with the results from Lessons learned biofuels Phase 1 (Tomas Ebkom/Franziska Mueller-Langer) 3) Decarbonizing long distance transport (Aviation, Marine, etc.) (Susan van Dyk, Sune Tjalfe Thomsen, Steve Rogers) • Focus Aviation,: Status and requirements for SAF supply to airports (e.g. relevant amounts for dedicated airports, (multi-)blending issues for JET A(-1) with different renewable SAF/SPK with regard to infrastructure for blending, transport, possible roadmap e.g. like for the EU within transposition of REDII) (Franziska Mueller-Langer/Shibby) 4) Demoplant database (Dina Bacovsky) 5) Review existing and proposed certifications for oleochemical and lignocellulosic-based biofuels supply chains; identify certification scheme improvement opportunities (Paul Sinnige) 6) Drop in biofuels/Co-Processing (possibly with Task 33 & 34) (Jack Saddler) 7) LCA and sustainability of transportation biofuels (Adrian Oconnell, Don O'Connor) 8) Implementation agenda/ compare and contrast biofuels policies (Mahmood Ebadian) 9) Continuation/further work on emerging markets/developing countries (Glaucia Souza/Ruben Maciel Filho) 10) Other projects?
25 minutes	Possible projects might Task 39 tackle in the next triennium (not currently included in Task 39 activities) 1) Algal biofuels (Jim McMillan) 2) Bio-component of power-to-X • Synergies of biomass and power based technologies for fuels (SynBioPTx) also in Link with T44 and for biomass as renewable carbon source with T40 (Franziska Mueller-Langer) 3) With Task 37, Biogas as a transportation fuel (Tomas Ebkom/ Dina Bacovsky) 4) With Task 44, potential industrial symbiosis/reduce biorefinery CAPEX (Jack Saddler/Jim McMillan) 5) Hydrogen and CO2 utilization/sequestration as it relates to Biofuels (Paul Bennett/Jin Suk Lee)



	6) Status update on ATJ /advanced biofuels pathway developments/prospects (Duncan Akporiaye/Stephen Dooley) • Could be part of Lessons learned? 7) Identify/Assess potential of circular economy feedstocks (scale, logistics, and products) for advance biofuels (Paul Sinnige/Mahmood Ebadian) 8) Completion of fuel infos (cf. e.g. AMF websites) by infrastructure issues (costs, indicators like refueling stations per vehicles in different regions)- Continuation of ‘Advanced fuels for advanced engines’ report with IEA AMF (Franziska Mueller-Langer/Nicolaus Dahmen) 9) Conversion of wastes generated from 2G ethanol industry to Biogas : Reduction in Opex & GHG emissions (Ravi Gupta) 10) Other projects?
10 minutes	Discussion on how to <u>increase industry involvement</u> in Task 39 and shorter-term solutions 1) Wider coverage of work done by Task 39 to the policy makers and key stakeholders in industry in respective countries 2) A regular series of online discussion meetings 3) IEA TCPs such as AMF, Combustion, and Hydrogen 4) ETIP Bioenergy, in particular WG 2. Etc.
10 minutes	How to better link and collaborate with other IEA Bioenergy Tasks and allied organizations? 1) Collaboration with Task 37 which works on the anaerobic digestion (AD) of biomass feedstocks including agricultural residues (e.g. manure and crop residues), energy crops, organic-rich waste waters 2) Task 33 and 34: co-processing of biocrudes to obtain fuels with biocontent 3) Task 37: biomethane in the transport sector 4) Task 33, 34, 37, 44: PBtL and PBtG 5) Task 37: demoplants database Etc.
10 minutes	Any further advice or suggestions for the next triennium? 1) Develop a timetable for an optimal preparation of the Possible Programme of Work (POW) for the next triennium (2022-2024) for ExCo submission incl. organisational structure and possible subgroups, management, processes, budget issues etc 2) the country reports is very important and extremely valuable and should be continued Etc
5 minutes	Meeting wrap-up (Jack Saddler/Jim McMillan)