Task 64 – E-fuels and end-use perspectives

Workshop #1: E-Fuels – overview on current status and technology assessments

22 September 2022, 12.00-15.30 CET, online

Agenda

12.00 CET	Check-in and welcome, *Zoe Stadler, Switzerland*
12.10 CET	**Availability of resources, a Brazilian overview**, *Rachel Martins Henriques, Brazil*
12.30 CET	Discussion on availability of resources • Which resources of CO2 are promising? • What renewable power for hydrogen production is considered promising for the production of e-fuels? Is there enough water of sufficient quality?
12.50 CET	**Technical overview**, *Franziska Müller-Langer, Germany*
13.00 CET	**E-fuel project of Finland**, *Juha Lehtonen, Finland*
13.10 CET	Discussion on ongoing projects • Which demo sites focusing on the development and improvement of e-fuel production technologies exist? • Which production pathways are investigated? • What are the driving sectors / stakeholders? • How quickly can the individual technologies be realised, what are the obstacles? • Which case studies are developed and evaluated?
13.35 CET	*Break*
13.50 CET	**Techno-economic assessments**, *Pingping Sun, U.S.*
14.10 CET	Discussion on techno-economic assessments (TEA) • What are the costs of the different e-fuel production value chains in the different countries? • What costs arise on the application side when switching to e-fuels? • What kind of methodologies for TEA are used in the different countries/regions?
14.30 CET	**Life-cycle assessments**, *Michael Wang / Kevin Stork, U.S.*
14.50 CET	Discussion on life-cycle assessments (LCA) • What kind of methodologies for LCA and WTW are used? • What are typical and expected net GHG effects of e-fuel production and utilization? • What is the result of other sustainability evaluations related to air pollutant emissions and water consumption?
15.10 CET	Summary and closing remarks

Moderation: Zoe Stadler, Switzerland