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Decarbonization of transportation fuels via co-hydroprocessing bio-based feedstocks with petroleum fractions

Stella Bezergianni

Centre for Research & Technology Hellas, Greece

Even though biofuels are promoted as one of the most significant substitutes of fossil fuels with a considerable share growth in recent years, they are still associated with high investment costs, uncertain environmental benefits and questionable compatibility with conventional combustion systems. One alternative approach for promoting a drastic increase of biomass utilization of the production of greener fuels for the transportation sector is co-processing of bio-based feedstocks in conventional refining conversion units. This presentation will focus on key R&D perspectives, challenges and potential for integrating liquid biomass (i.e. lipids, pyrolysis biooils, micro-algal oils and low grade bio-based feedstocks) in conventional catalytic hydroprocessing units. The presentation will provide practical and useful information for the producers of bio-based feedstocks as well as for the refiners, in order to enable a fast integration of biomass within existing conventional refineries.

sbezerg@cperi.certh.gr