

SusChem 2018 Brokerage Event

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Chemical Utilization of Waste Plastics

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Czech Technology Platform for Sustainable Chemistry

CTP SusChem (www.suschem.cz)

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Pyrolysis unit for chemical utilization of waste plastics

The aim of the project is optimization of existing technology for pyrolysis of waste plastics with focus **on products purifications. Current technologies produce commodity for combusting purposes without more significant purifying step and this way we lose material for recycling.** Development of innovative technology to be focusing on processing of various types of feed (waste plastics), assessment of feed quality impact on products quality, influence of operating conditions on yields, products quality. As a result the pilot unit with maximum conversion rate to be developed. **Products to be used as alternative feed in petrochemical industry: monomers for polymer production, solvents, lubricants, plasticizers, etc. Hydrogen separated from gas fraction may be used as alternative fuel for transportation.**

Calls : CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

CE-SC5-24-2020: Improving the recovery and recycling of materials from composite and multi-layer products

Contribution to the **Circular Economy**, source of raw material (pyrolysis oil as a mixture of monomers for further polymerization) as well as fuel (hydrogen) for transport

Looking for Partners in order to form a consortium along the value chain

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