

Development of a screw pyrolysis technology for mixed plastic waste

Building on our patented pyrolysis technology at ITC, we have extended a license to Arcus Greencycling GmbH, empowering the technology to be scaled up from a pilot-size test rig to demonstration plant size—a pivotal step toward the desired Technology Readiness Level and a broad market roll-out. In this partnership we push to enable the conversion of mixed plastic waste to valuable feedstocks for the chemical industry. Together, we are engaged in screening new and challenging feedstocks, mass and energy balancing of the process, and conducting comprehensive analyses of pyrolysis products. By gaining a deeper understanding of the pyrolysis and the crucial process parameters Arcus Greencycling and ITC aim to close the loop for mixed plastic waste.