Chemical Recycling - Beyond Thermal Use of Plastic and other Waste
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OMV´s Holistic Approach to Close the Circular Loop

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Abstract

Unsustainable resources consumption and linear production models are causing adverse impacts on the environment. New ways to produce the same products with lower environmental, climate and health impacts, and circular use of recycled or renewable sourced raw material, are the key components of enhanced sustainability in the chemicals industry and required to make the transition towards a circular economy. Significant upscaling in the current use of circular and sustainable feedstock is needed. In the EU, 100% of plastic packaging needs to be reusable or recyclable and beverage bottles must have 30% recycled content by 2030. Chemical recycling is the way forward to complement the established mechanical recycling. Chemical recycling converts the difficult to recycle end of life plastics into synthetic crude oil, which can be further processed into virgin-like new polymers.