

# MoReTec chemical recycling technology



## Circular and low carbon solutions at scale

This presentation is giving an overview, how the MoReTec process helps advancing recycling of plastic waste in a complementary way to mechanical recycling and how it is embedded in the LyondellBasell ecosystem.

MoReTec is LyondellBasell's proprietary pyrolysis technology, that is developed to address hard-to-recycle post-consumer mixed plastic waste. With this focus it integrates very well into LyondellBasell's recycling ecosystem. It starts with sorting of waste, includes mechanical recycling and is complemented with chemical recycling such like the MoReTec pyrolysis process.

The MoReTec process is design to convert hard-to-recycle plastic waste into high quality plastic at high purity, that serve for applications such as food packaging and healthcare. The process is able to maximize the plastic-to-plastic yield to > 80%. As MoReTec can be operated at lower temperatures it reduces the energy consumption and is estimated to lower the carbon footprint of the pyrolysis oil by at least 50 % compared to fossil-based feedstock. The scalable process benefits from LyondellBasell's integrated ecosystem such as the site in Wesseling / Cologne.