

MoReTec: the new LYB advanced molecular technology

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With its proprietary MoReTec advanced recycling technology, LyondellBasell (LYB) aims to return post-consumer plastic waste to its molecular form. The MoReTec technology produces pyrolysis oil and pyrolysis gas. Pyrolysis oil is a substitute for fossil-based materials used to generate feedstocks for polymer production. In competing technologies, pyrolysis gas streams are typically consumed as a fuel. However, the MoReTec technology enables the pyrolysis gas to be recovered as well, avoiding emissions associated with using the pyrolysis gas as a fuel, while also contributing to the production of polymer and replacing fossil-based feedstocks. These polymers are used for applications that require high purity, such as food contact materials.