



Plastics Recycling Technology

KBR Hydro-PRTSM: An Innovative Plastics Recycling Process

KBR offers a sustainability-focused, innovative plastics recycling process, Hydro-PRTSM, in alliance with Mura Technology Ltd. Plastics recycling is a key element of a functioning circular economy.

Hydro-PRT recycles end-of-life plastic such as thin plastic packaging, which would otherwise be incinerated, sent to landfills, or leaked into the environment. Hydro-PRT converts these mixed plastics into a hydrocarbon product that can be used as a drop-in or further refined into value-added chemicals or virgin polymers. The technology is based on a patented hydrothermal upgrading process which utilizes supercritical water to produce stable hydrocarbon products from a wide range of mixed plastic waste.

A COMMERCIALLY PROVEN PROCESS

The technology has been successfully demonstrated on pilot scale since 2014. A 20 kta commercial scale plant utilizing Hydro-PRT is under design by ReNew ELP in Wilton, UK. Using end-of-life plastic as feedstock, this plant will produce liquid hydrocarbon cracker feedstock alongside intermediate products. This plant will eventually process over 80 thousand tons of plastic waste feedstock and is scheduled to start-up in 2022.



PRODUCTS

Hydro-PRT produces four distinct and separate liquid hydrocarbon products for reuse in production of new plastics, chemicals, solvents, refinery feedstocks and other products.





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KBR is proud to work with its customers across the globe to provide technology, value-added services, and long-term operations and maintenance services to ensure consistent delivery with predictable results.

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