



Cat-HTR™

A Breakthrough Technology in the Battle Against Plastic Pollution

Mura Technology owns a proprietary patented technology, the Cat-HTR, which is capable of chemically recycling mixed waste plastics.

The Cat-HTR process is unique, as it utilises supercritical water on a commercial scale, resulting in a more economically efficient and environmentally friendly solutions compared with other chemical recycling methods.

As founding members of Chemical Recycling Europe, we are a pioneer in the Chemical Recycling industry. Our goal is to facilitate the recycling of all plastic materials and to assist with the Circular Economy with our global partners.

Cat-HTR at a Glance

Cat-HTR process achieves in just 20 minutes what takes nature 200 million years; turning plastic waste into readily usable recycled oils and chemicals, or further refined to create high value products

Cat-HTR can process PET, one of the most widely used plastic globally

Cat-HTR emits zero harmful emissions that are common in other thermal degradation techniques

Independent Life Cycle Analysis shows our process gives a 70%+ reduction in Greenhouse Gas (GHG) emissions compared with incineration

The process is protected by 13 families of patents

Technology has been extensively tested over a period of 10 years with over US\$80 million invested in process development and product validation

“This technology is the most advanced supercritical hydrolysis technology in the world. It has outstanding product yield and good quality in the application of organic solid waste resources such as waste plastics.”

CHINA PETROLEUM AND CHEMICAL INDUSTRY FEDERATION

How Can We Help?

The Mura technology provides a holistic solution for a number of parties:

- 1 Provide a recycling solution for plastic streams that are sent to landfill and incineration
- 2 Governments and Local Authorities can increase recycling capacity, allowing targets to be met
- 3 Produces a low sulfur and low oxygen oil for use in plastic and wax manufacture, for refineries and blenders

Key Advantages of the Cat-HTR

Due to using water as the reaction medium:

- There is no requirement to dry the feedstock, which is a costly and problematic step in many competing technologies
- No additional hydrogen is required within the process, which reduces complexity
- Less susceptible to corrosion, coking and production of CHAR
- Suppresses radical reactions which reduces the generation of by-products, resulting in yields of up to 85%

Rapid process which only takes 20 minutes

The technology is flexible and modular, enabling plants to be quickly scaled-up to meet raw material supply

More energy efficient than alternative techniques such as pyrolysis and gasification, as it operates at lower temperatures

Cat-HTR can process PET, one of the most widely used plastic globally, which pyrolysis struggles to process

Cat-HTR emits zero harmful emissions that are common in other thermal degradation techniques

Products are Ultra Low sulphur in compliance with new MARPOL regulations

Allows businesses to turn a waste stream into a revenue stream



Insurance

Mura has engaged with a specialist insurance provider, New Energy Risk (NER), a subsidiary of AXA, who underwrites the technical risk of a new technology coming to market. NER have undertaken an extensive due diligence review of the Cat-HTR technology over several months and will cover the repayments to the debt providers of the Company if:

- The plant not working as forecast (subject to exclusions agreed between parties)
- The plant producing a lower value product than expected
- The plant producing less output than expected

The policy is designed to provide additional comfort to the debt providers of projects, as any claims will be to ensure that any interest or facility repayment will be met

“We are pleased to report that this review to date supports the conclusion that the process technology meets the characteristics we look for in terms of insurability, meaning well-understood science, demonstrated reliability, and best-practices project design and engineering as led by GHD.”

NER

For Our Development Partners We Can Provide:

Shovel-ready sites in the UK and Europe, with all permits and commercial agreements completed
 Patented technology package
 Unique technology insurance wrap
 Investment grade EPC contractor and design support
 Off-take contracts for products
 Finance partners

For Waste Managers:

We can offer to recycle waste plastics under both short and long-term contracts
 To engineer a plant solution if your recycling volumes can support a single Mura plant

For Customers:

Opportunity to supply a low sulphur crude oil to comply with impending regulations linked to the circular economy and MARPOL and RED II legislation



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