



The Future of Sustainable Advanced
Plastic Recycling with





Contents

5 – 7	Our Global Mission, Ambition & Action
8	The Plastic Problem
9	The Economic Opportunity
10 – 13	Mura's Solution – HydroPRS™
14 – 17	Global Development
18 – 19	Mura in the Plastics Recycling Value Chain
20 – 24	Partnerships
25	Creating a Circular Economy
26 – 29	Advantages & Impacts



Our Global Mission

Mura Technology intends to become the world’s leading producer of recycled hydrocarbons, creating a circular economy for plastic, whilst helping to decarbonise the petrochemical industry and eliminate global plastic pollution.

1

We are pioneering a scalable process to divert waste plastic away from incineration, reduce carbon emissions and prevent millions of tonnes of plastic from entering our natural environment every year, turning the \$120bn lost resource of plastic waste into a valuable global commodity.

2

We are partnering with the entire plastic recycling value chain, including international consumer brands, resin producers and waste management companies to scale our process worldwide. This feeds a sustainable circular economy and strives towards Net Zero.

3

Our process, **HydroPRS™**, creates a much wider scope for recycling all types of plastic, including flexible, multi-layered film and post-consumer, contaminated materials. By diverting these materials away from incineration and landfill and into recycling, we decouple the manufacture of new plastics from fossil-sourced feedstock – helping to decarbonise the petrochemical industry.

Our Ambition is to have 1,000,000 tonnes of global plastic recycling capacity in operation or development by 2025.

Our Action

Mura Technology is:



Producing **100% recycled, fossil-replacement feedstocks** from waste plastic for the manufacture of new plastics and other materials



Creating a **truly circular economy** – with no limit to the number of times plastics can be recycled using the **HydroPRS™** process



Offering a legitimate **alternative to incineration**, reducing CO₂ emissions and diverting plastic away from landfill



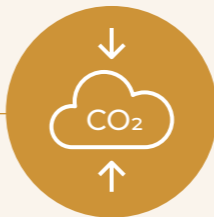
Providing a **scalable solution** to eliminate plastic waste - including plastics that can't be recycled currently



Decoupling the manufacture of plastic from fossil resource and providing a **sustainable alternative**



Offering this commercially viable process to a worldwide market via our **exclusive licensing agreement with KBR**



Sharing information on CO₂ reduction and research into the **positive environmental impacts of HydroPRS™**



Developing **partnerships** across the entire plastics recycling value chain to further the global roll out of **HydroPRS™**

The Plastic Problem

- Over 350 million tonnes of plastic are produced globally every year¹, with half becoming waste in less than a year².
- Globally, only 9% of all plastic produced has ever been recycled. The rest has been sent to incineration or landfill³.
- Annual worldwide plastic production creates an estimated 390m tonnes of CO₂ every year⁴ - equivalent to over 172million UK cars⁵.
- The planet is on course to see 12 billion tonnes of plastic in landfills and the environment by 2050⁶.
- Approximately 8 million tonnes of waste plastic enters the oceans each year⁷.

Plastic has many benefits - it is lightweight, flexible and hygienic - which has allowed for huge advances in medicine, food preservation, infrastructure and technology. Our global reliance on plastic has never been more obviously highlighted than during the global pandemic of 2020 and onwards.

The lack of recognition of plastic as a re-useable material, however, is leading to environmental damage, as much of the plastic produced worldwide is either sent to incineration or landfill, or leaks into the environment after a short, single use.

Traditional mechanical recycling methods cannot process all types of plastic – in reality, many types of plastic (such as flexible, multi-layer films) are directed towards EfW (Energy from Waste / incineration), sent to landfill or exported to countries that do not have adequate recycling infrastructure.

A new solution to solve the increasing plastic problem has never been more pressing.

The Economic Opportunity

The development of a circular economy for plastic is key to the protection of the natural environment from plastic pollution and carbon emissions. To enable sustainable and ongoing protection, Mura is intending to capture the lost resource of plastic waste, valued at an estimated \$120billion dollars annually⁸.

The **Market Value of global plastics** is estimated to reach

\$754billion
per year by 2025⁹

Oil demand for plastic production is

9 million
barrels per day, rising to
23 million barrels day by 2060¹⁰

The value of feedstock supplied for the **manufacture of new plastic** is approximately

\$180 billion
per year¹¹

Only
5%
of material value from **plastic packaging collected globally** for recycling is retained in subsequent use¹²

\$120billion
is lost through plastic waste annually¹³

Rather than continue to extract fossil fuels to fulfil demand for new plastic manufacture, Mura's focus is on recovering and recycling all waste plastic, converting it back into liquid hydrocarbon products for the manufacture of new plastics and other materials, helping to create a circular economy.

1. Plastics: The Facts - Plastics Europe (2018)
2. Key Facts on Plastic Pollution - Plastic Oceans UK (2019)
3. Production, Use and Fate of All Plastics Ever Made. Science Advances Research Article. Asci. Adv. 2017; R. Geyer, J.R. Jambeck, K.L. Law
4. The New Plastics Economy: Catalysing Action - The Ellen McArthur Foundation (2017)

5. Average CO2 Emissions of Newly Registered Cars, Great Britain – UK Government (2015)
6. The New Plastics Economy: Catalysing Action - The Ellen McArthur Foundation (2017)
7. The New Plastics Economy: Catalysing Action - The Ellen McArthur Foundation (2017)

8. World Economic Forum (2018)
9. Statista (2019)
10. Statista (2019)
11. Mura Technology (2021), based on Oil Demand for Plastics Production Worldwide - Statista (2019)

12. The New Plastics Economy: Catalysing Action - The Ellen McArthur Foundation (2017)
13. World Economic Forum (2018)

Mura's Solution

Mura's proprietary process, **HydroPRS™** (Hydrothermal Plastic Recycling System) is an end-to-end advanced recycling process that uses supercritical steam to convert flexible and multi-layered waste plastics into industry-ready, liquid hydrocarbon products.

These products can be used as fossil-replacement feedstocks in the manufacture of new, virgin-grade plastics and other materials.

3 Key HydroPRS™ Process Advantages



Scalability

HydroPRS™ is inherently scalable - the use of supercritical water offers highly efficient, homogenous heat transfer – during the process, the supercritical steam surrounds the plastic rather than heating from an external source, making scale-up a simple process. The use of supercritical water offers a source of hydrogen to saturate the broken chemical chains, with hydrogen transferring into the end products.



Plastic Scope

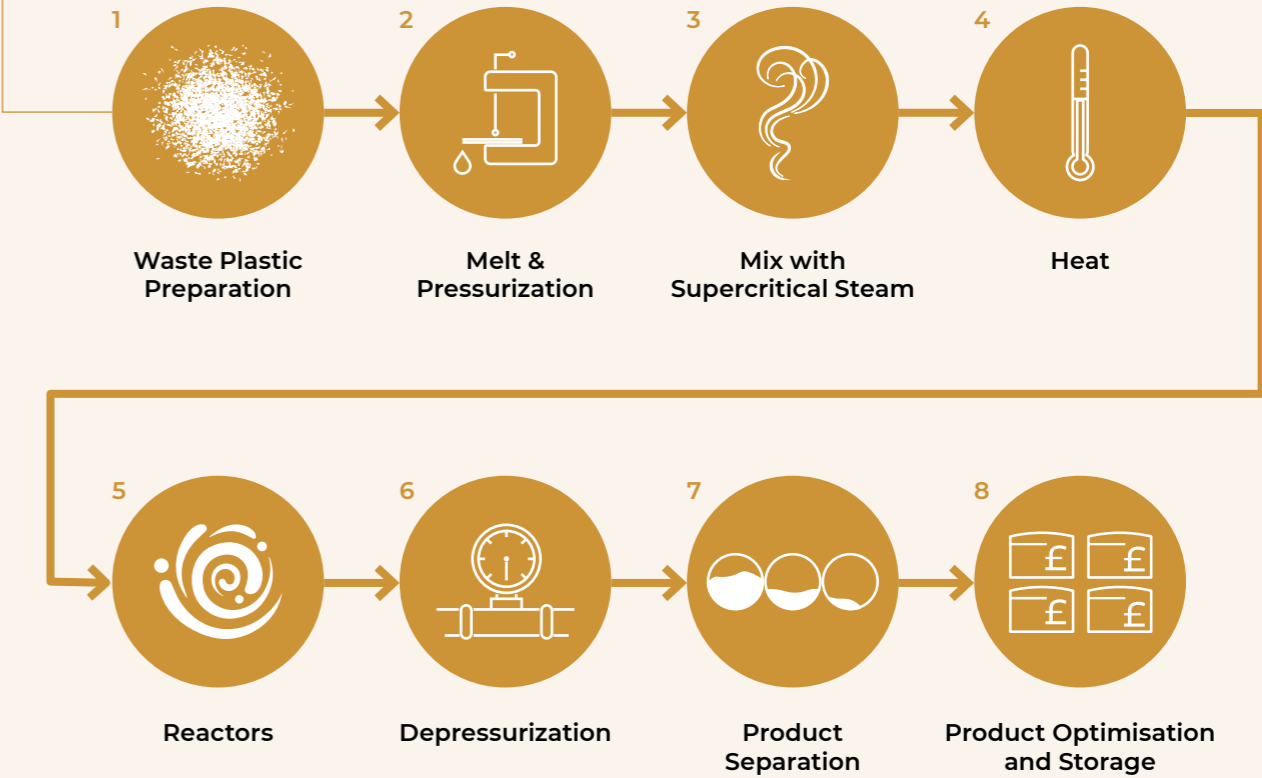
HydroPRS™ offers a much higher scope for recycling all major types of plastic, including flexible and rigid multi-layered materials, currently considered 'unrecyclable' via traditional mechanical methods. It can process contaminated and mixed, post-consumer plastics as the process is insensitive to organic contaminants such as paper, cardboard and organic matter (e.g. food residue), meaning a wider range of recyclable waste plastics.



High Product Yields

Homogeneous reaction conditions allow the cracking rate to be controlled during operation, acting as a suppressant to unwanted free radical reactions - this contributes to high yields of hydrocarbon products. The use of supercritical water gives a means of rapid heating that avoids excessive temperatures that could lead to char formation.

The HydroPRS™ Process



To begin the process, mixed waste plastics are shredded and unwanted contaminants such as glass, grit, metal and stones are removed.

The mix is then heated and pressurized, mixed with supercritical steam and fed into the reactor, where the supercritical water acts as 'molecular scissors' to break down the carbon-carbon bonds in the plastic, donating hydrogen to create shorter-chain hydrocarbons. The use of hydrogen in the process gives the end products increased stability.

Following conversion, the mix is depressurized and separated into liquid hydrocarbon products. These products are then stored for transport to our customers.



Scan to watch a short video about our process.

Target Feedstocks

Target feedstocks for **HydroPRS™** are primarily contaminated, post-consumer, multi-layer plastic, such as flexible films and rigid trays.

Target Feedstocks:

- **HydroPRS™** can process all plastic types, with no need to separate mixed waste streams
- This includes contaminated, post-consumer flexible and rigid materials
- Some plastics, such as PVC, are minimised due to effect on product quality

Sourced from:

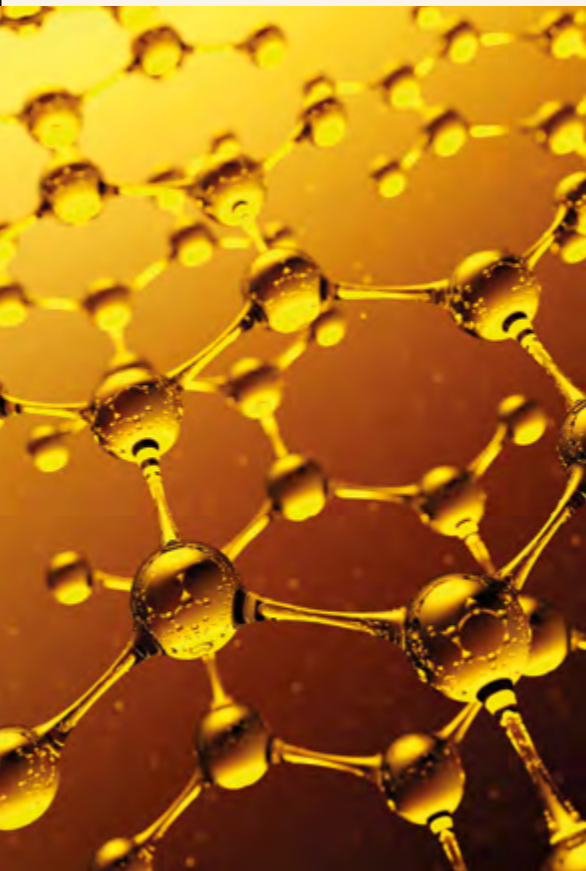
- End of life, post-consumer waste streams (multi-layer films and rigids) destined for incineration or landfill
- Leftover materials following mechanical recycling – MRF residue diverted away from incineration. **HydroPRS™** is a complementary process to mechanical recycling
- Agricultural plastic waste
- Fishing nets, ocean plastics and construction plastics

Mura's HydroPRS™ process will:

- Complement existing mechanical processes and infrastructure - not compete with them
- Recycle the flexible, multi-layered materials that cannot be processed via traditional, mechanical means
- Divert waste plastics that would otherwise go to landfill, incineration or leak into the environment
- Reduce the need to export plastic waste
- Process mixed plastic streams (films and rigids) without the need for segregation
- Process post-consumer contaminated materials (including organic residue & paper etc.)

Output Hydrocarbon Products

HydroPRS™ creates a range of valuable hydrocarbon products – each can be tailored to meet market requirements and conditions. These products are expected to be sold on long-term contracts.



Due to a flexible plant design, end products can be tailored to meet customer demand. The initial **HydroPRS™** plant in Teesside is producing:

 **HydroPRS175™**

This recycled naphtha product can be used to replace fossil naphtha as a feedstock to make new plastics

 **HydroPRS350™**

This Distillate Gas Oil can be used to replace fossil naphtha as a feedstock to make new plastics

 **HydroPRS450™**

This Heavy Gas Oil can be used as a feedstock for a range of petrochemical processes, including the production of plastics, chemicals, waxes and oils

 **HydroPRS500™**

This high-boiling hydrocarbon product can be used as an additive in the production of bitumen or asphalt for use in sustainable road building

All products are REACH¹⁴ registered.

Global Development

Our exciting global technology roll-out plan and active partnerships are in effect and the first commercial-scale recycling site is currently under construction.

ReNew ELP, United Kingdom

The first site to utilise **HydroPRS™** is ReNew ELP in Teesside, North East England. The site is comprised of four 20,000 tonne per annum lines – the first line is under construction and expected to be operational by late 2022, with the remaining three lines following, once line one is operational.

See page 16 for further details.

Europe

Mura has four sites under development in Germany, each with a projected capacity of 100,000 tonnes per annum and are targeted to be operational by 2024 – 2025. A remaining three sites of 100,000 tonnes per annum have been identified for future development.

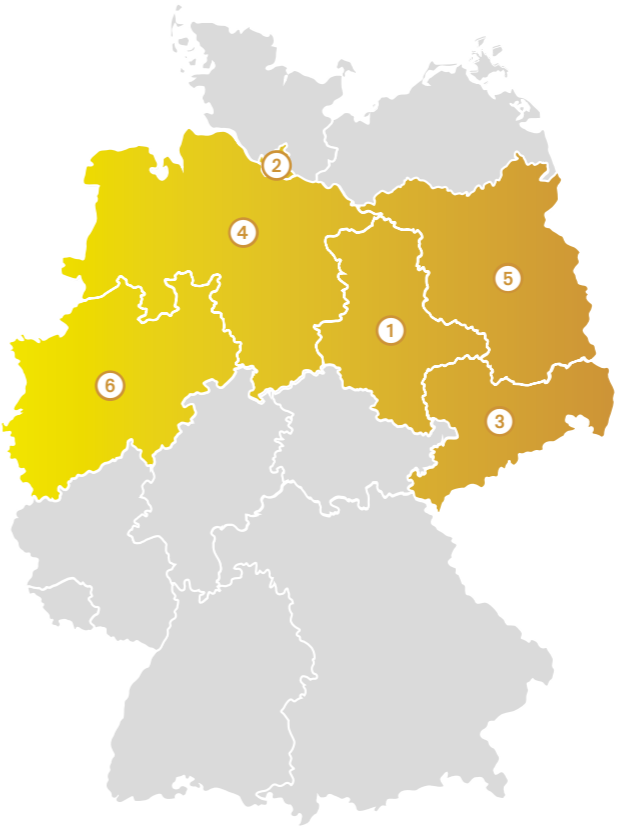
German chemical industry benefits from good infrastructure through integrated industrial sites, called chemparks, which house a high concentration of chemical industries and feedstock sorting facilities, where Mura intends to base its first four sites. Mura is in partnership with local petrochemical companies and is developing feedstock supply, including discussions with incinerators to divert residual waste plastics into recycling.

USA

Mura has four 100,00 tonnes per annum sites under development in the US. The projects are at varying stages of the development process and have anticipated commercial operation dates of 2024 – 2025.

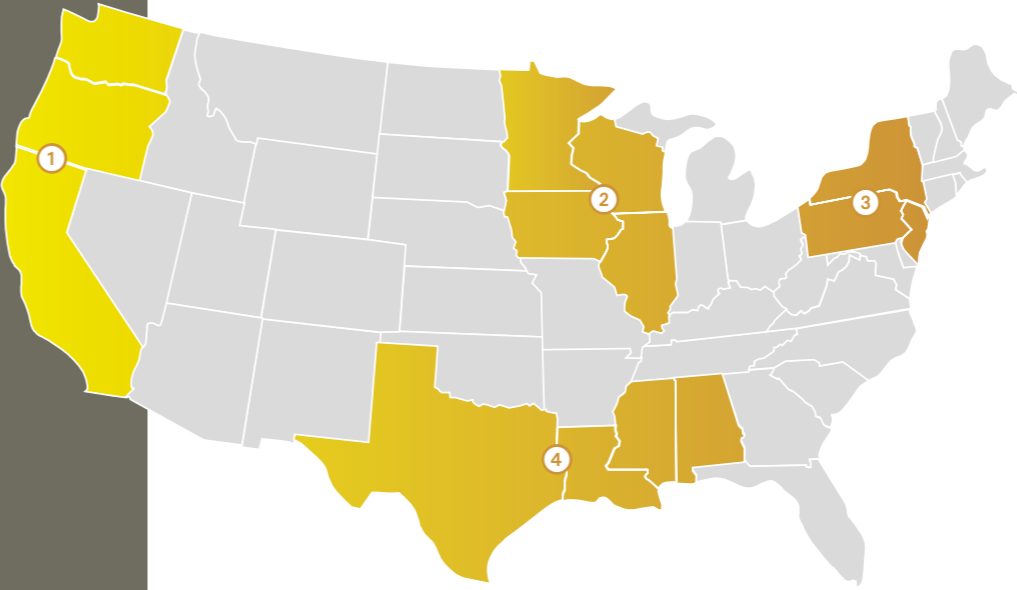
Mura is to focus its initial efforts on establishing projects within states where there is a strong public focus on recycling, extensive waste sorting infrastructure and tax-exempt bonds availability. Mura have already secured large quantities of waste plastic feedstock and offtake products.

German Development Outline



- 1 Saxony-Anhalt – Under development
- 2 Hamburg – Under Consideration
- 3 Saxony – Under development
- 4 Lower Saxony – Under Consideration
- 5 Brandenburg – Under Consideration
- 6 North Rhine WP – 1 Under Consideration
1 Under Development

USA Development Outline



- 1 Pacific North-West
- 2 Midwest
- 3 New York Metro Area
- 4 USA Gulf Coast

ReNew ELP

The first site to use the **HydroPRS™** process is under construction by ReNew ELP in Teesside, North East England. This 80,000 tonne per annum capacity recycling site is located at Wilton International, an established industrial site with readily available utilities and potential for laboratory, scale-up and pilot facilities.

The site will comprise of four 20,000 tonne per annum capacity recycling lines. The four lines are being constructed in phases, with the first 20,000 tonne per annum line having begun construction in April 2021, due to be operational by late 2022.

ReNew ELP has appointed Wood, the global consulting and engineering company, as its Engineering, Procurement and Construction contractor (EPC) on the project.

Location Benefits

- Key companies in the petrochemical industry based at Wilton
- Access to established freeport and transport links
- Skilled local workforce due to area's industrial heritage

Local Economic Benefits

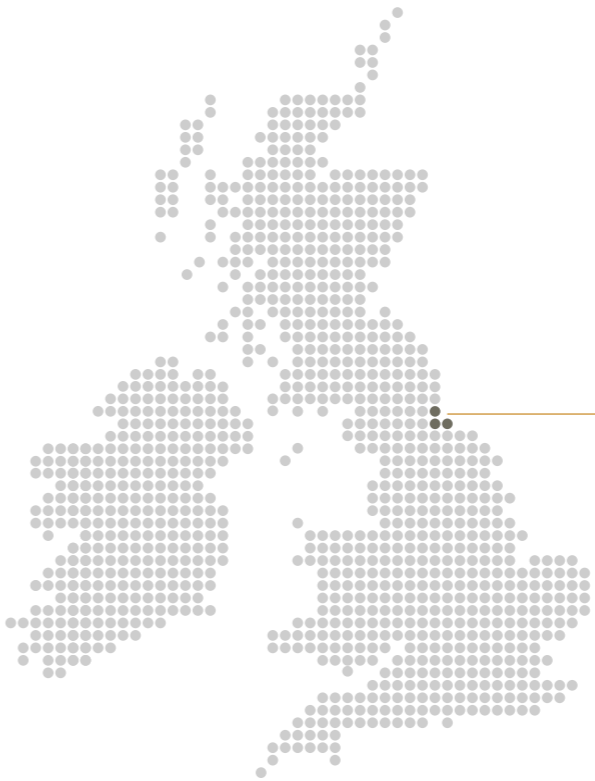
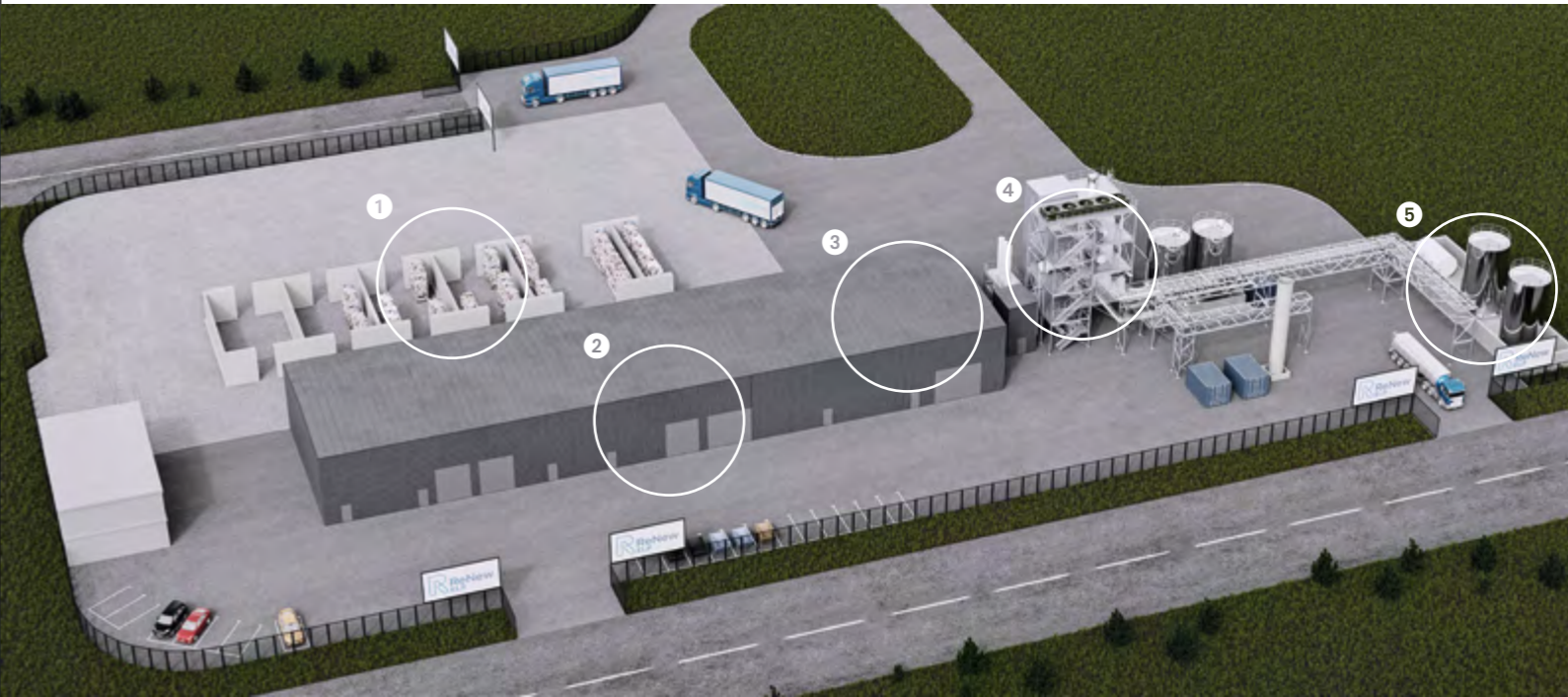
- The first site will bring up to 100 jobs during construction and 50-60 direct employment jobs related to commercial operation
- High-value employment, at an economically uncertain time
- Local partners and resource to help with construction

- Positive national media coverage for the North East and backing from local politicians
- Increased export trade
- Huge potential for site rejuvenation - creating a hub of new industry through innovative processes and bringing new technology to Teesside

Funding

In October 2020, ReNew ELP was awarded a £4.42 million grant from Innovate UK, the UK's innovation agency, to build this world's first commercial-scale HydroPRS™ advanced plastic recycling plant. Focussing on the UK Government's priority to drive economic growth through new technology, the award came via the Industrial Strategy Challenge Fund's Smart Sustainable Plastic Packaging programme, recognising the commercial-scale feasibility of the technology and potential of the advanced recycling sector to help meet ambitious plastic recycling targets.

The award of the Innovate UK funding demonstrates support for the industry and confirms alignment with UK Government targets on increasing recycling capacity.



- 1 Plastic Storage
- 2 Plastic Preparation
- 3 Clean Plastic Store and Feeder
- 4 HydroPRS™ Core Technology
- 5 End Product Storage

Head Office:

ReNew ELP
Wilton Centre
Redcar
United Kingdom
TS10 4RF

Email: info@renewelp.co.uk
Phone: 01642 438 280

Mura in the Plastics Recycling Value Chain

The plastics recycling value chain consists of parties who have so far mainly worked in isolation when it comes to creating advanced plastic recycling solutions. Mura intends to work closely with parties along the entire plastics recycling value chain to leverage their respective strengths and work together to accelerate the roll out of **HydroPRS™** capacity.

5. Resin Producers

Mura can provide sustainable feedstocks from **HydroPRS™** as a replacement for fossil-derived petrochemical products for use in the manufacture of new plastics and other materials. This creates a circular feedstock that removes the reliance on fossil resource, to transition into a truly circular economy.

4. Product Upgrading

In January 2021, Mura formed an exclusive Global Licensing and Engineering Agreement with KBR, a leading international provider of science, technology and engineering solutions, to support the global roll-out of **HydroPRS™** (see page 20). Mura is working with KBR to provide optimised product upgrading to create maximum conversion efficiency of **HydroPRS™** feedstock to new plastics. Upgrading will be offered as an add-on option to the core process to facilitate integration into existing refineries.



1. Consumer Brands / Manufacturers

Sustainability and the ability to recycle products and packaging are some of the biggest problems facing consumer brands and manufacturers. Mura's **HydroPRS™** process offers access to recycled resin alongside a recycling route for problematic material without the need for costly redesign of packaging (which may reduce performance efficiency). **HydroPRS™** provides a pathway to Net Zero, with early LCA data exhibiting significant CO₂ savings from **HydroPRS™** products.

2. Waste Management

End-of-life plastics not considered recyclable via traditional mechanical means are currently sent to incineration, landfill or export. **HydroPRS™** is a cost-competitive alternative. Global recycling partners will supply Mura with high plastic content feedstock, resulting in likely contracts for long-term access to waste plastic feedstock.

3. Converters / Recyclers – Mura Technology

Mura's **HydroPRS™** process is a complementary solution to sit alongside the mechanical recycling industry, processing those waste plastics that cannot currently be recycled. A commercially viable alternative to incineration and landfill for end-of-life plastics, efficient roll-out is expected to result in significant amounts of advanced recycling capacity across the globe.

Exclusive Licensing and Engineering Agreement with KBR

At the start of 2021, Mura aligned with KBR, a leading international provider of science, technology and engineering solutions, to support the global roll-out of **HydroPRS™** and the identification of new markets for the technology. KBR will provide engineering and technical services as well as equipment to develop sites for global clients.

KBR's position at the forefront in the provision of innovative, game-changing technologies offers Mura Technology world-class development opportunities and validates the technical capabilities of the **HydroPRS™** process.

"We are extremely excited to announce that KBR will offer this innovative plastic recycling process for licence to clients so they can efficiently recycle end-of-life waste plastic and convert it into a reusable feedstock for plastics or other valuable chemicals production. This technology aligns with KBR's commitment to sustainability by reducing lifecycle greenhouse gas emissions and the volume of waste that enters landfills and the environment, whilst contributing to the growth of the plastic circular economy."

Doug Kelly, KBR
President, Technology

"We want to change the way the world thinks about plastics - not as a waste product, but as a valuable resource - using our technology to forge an environmentally friendly, plastic neutral and sustainable future. KBR is the natural choice for us to achieve this vision - a global leader with the capabilities to support the licensing of our technology around the world."

Dr Steve Mahon, CEO,
Mura Technology

For Licensing and Engineering,
please contact:

Francis Tsang
Senior Director - Plastics
Recycling Technology, KBR Inc.
francis.tsang@kbr.com
www.kbr.com



First Licence Agreement

In June 2021, Mura and KBR were delighted to announce the first licence agreement following the Licensing and Engineering Agreement - with Mitsubishi Chemical Corporation (MCC), which plans to deploy the **HydroPRS™** plastic recycling solution in Japan to reduce plastic waste & create a circular plastics economy.

This first project will be based at MCC's Ibaraki plant and is expected to complete construction in 2023. It will have the capacity to process 20,000 tonnes of plastic waste per year - with MCC studying the possibility of increasing capacity in the future. Initially, the project will aim to use post-industrial plastics. With 9 million tonnes of plastic waste arising annually in Japan, MCC will seek to extend the scope of the project and target these plastics as raw materials.



Partnerships

Dow

In April 2021, Mura Technology announced its partnership with Dow. The collaboration supports the rapid scaling of Mura's **HydroPRS™** process, whilst the deal marks an important step in Dow's commitment to advance a circular economy for plastics and keep plastic waste from entering the environment.

The partnership combines Dow's materials science capabilities, global scale and financial resources with Mura's leading technology, to produce circular feedstocks, for conversion into the recycled plastics that consumers and global brands are increasingly seeking. Dow will play an important role as a global manufacturer of plastic, proving that Mura's solution can meet both the sustainability and performance needs of the industry and that the products made via **HydroPRS™** can be employed at scale.

In addition to investing in Mura, Dow will act as offtaker for some of the recycled hydrocarbon products produced at ReNew ELP, Mura's first **HydroPRS™** site, currently under construction in the UK (see page 16). Dow will use these materials to develop new, virgin-grade plastic for applications such as food packaging and other packaging products to be re-circulated into global supply chains, creating a true circular plastics economy.

"We are delighted to offer our investment and expertise to support the development of this truly game-changing recycling process. We are committed to enacting real change to stop plastic going to waste and accelerate moves towards a more circular economy. We know achieving this goal will take major innovation and investment and we can't do it alone. That's why our partnership with Mura is so exciting and why we believe it will form a key pillar of our recycling strategy going forward."

Marco ten Bruggencate, EMEA Commercial Vice President, Packaging and Specialty Plastics, Dow

"Plastic pollution is a global challenge and our goal is to meet it head on by recapturing millions of tonnes of plastic waste every year and put them to work again as a valuable resource for the world's biggest brands. We're changing the way the world thinks about plastics – not as something to throw away, but as a product that can be used over and over again, and sustainably, without damaging our natural environment. Our partnership with Dow will help make this a reality for global brands and deliver a circular plastics economy globally within the next decade."

Dr Steve Mahon, CEO, Mura Technology

www.dow.com



CPChem

In December 2021, Mura partnered with CPChem, following an equity investment from their subsidiary, Six Pines Investments LLC. This new agreement constitutes major development in the advanced recycling market as Mura aims to be the world's largest producer of recycled hydrocarbons, whilst CPChem has the goal of manufacturing at least 500,000 tons per year of circular polyethylene by 2030.



"CPChem and Mura believe waste plastics should not end up in landfills, as they can be circularly recycled into new plastics for use across a wide array of applications. CPChem believes that solving the global problem of plastic waste will require innovation, investment, and cooperation throughout the entire plastics value chain. Six Pines' investment advances CPChem's ambition to reduce waste and reuse as a valuable resource, accelerating change for a sustainable future."

Benny Merman, Vice President of Sustainability at CP Chem

www.cpchem.com

igus GmbH

Mura partnered with igus GmbH. in 2020 via a strategic investment to support roll-out of Mura's **HydroPRS™** process. The family-run company based in Cologne, Germany, are global leaders in developing and producing motion plastics and have sustainability at the core.

"This could be the solution the plastics industry has been crying out for. Plastic, as a material, has many great properties and applications which make modern life possible – but it must be sustainable. We're proud to be partnering with Mura to pioneer truly recycled plastic that doesn't compromise on quality, ultimately resulting in a cleaner, greener and thriving natural environment."

Frank Blase, CEO, Igus

"We are delighted to partner with igus. Their global network and investment will accelerate our ability to deploy Mura's recycling capacity. Igus are our first strategic investor and we applaud the leadership they have shown to support Mura and in their own recycling initiatives."

Dr Steve Mahon, CEO, Mura Technology

www.igus.eu



Licella Holdings Limited

Mura's **HydroPRS™** processes utilises at its core the Cat-HTR™ technology (Catalytic Hydrothermal Reactor), which was developed by Australian technology development company Licella Holdings Limited. With more than A\$100M invested over 14 years, this innovative technology has been proven across a wide range of feedstocks, including waste biomass and end-of-life, post-consumer plastic. Licella have operated commercial-scale pilot facilities in Australia for over 5 years, with several scale-up operations throughout their development. Mura intend to develop **HydroPRS™**, using Cat-HTR™, at global scale, with the exclusion of Australia and New Zealand, where Licella will look to develop future opportunities.

"Licella have spent 14 years developing the Cat-HTR™ technology platform, at the core of Mura's HydroPRS™ process. We are delighted to see the first commercial-scale project proceed in the UK with our partner Mura. With a shared vision for a more sustainable future, we are confident that Mura will establish themselves as leaders in the advanced recycling of plastic globally."

Dr Len Humpheys, CEO, Licella Holdings Limited

www.licella.com



Partner with Mura

To support the development and global roll-out of this innovative process, we are establishing a collaborative group of international partners from the full plastic recycling value chain, including petrochemical companies, waste management firms and international consumer brands, to work in unison with a collective goal as part of an open, accessible and inclusive platform.

By becoming a Mura Partner, your company will:

Resin Producers / Petrochemical Industry

- Have access to recycled hydrocarbon feedstock
- Decouple manufacture from fossil-derived feedstocks
- Have a place in a true circular economy

Consumer Brands / Manufacturers

- Have access to recycled resin for use in plastic packaging, reducing need for costly packaging redesigns
- Be part of a truly circular solution to turn the tide on plastic waste
- Be on a pathway to Net Zero, exhibiting significant CO₂ savings
- Have a strong message of action to communicate to consumers

Waste Management

- Have a cost-competitive alternative to incinerating waste plastic
- See a reduction in requirement to export plastic waste

For Partnership Enquiries, please contact:

Oliver Borek
Chief Commercial Officer
Mura Technology
o.borek@muratechnology.com

Creating a Circular Economy

It is Mura's ambition to contribute to a circular economy for plastics and a reduction in carbon emissions from the plastics industry using our innovative advanced recycling process **HydroPRS™**. Mura also aims to keep plastic as a resource in use for as long as possible, recovering and recycling it to extract value and regenerating it into new products with a **produce - consume - recycle** model - an alternative to the traditional fossil, linear model of produce - consume - dispose. Mura also aims to redirect plastic waste away from incineration and into recycling, replacing the use of fossil resource in the manufacture of plastic, in turn reducing carbon emissions and helping to strive for Net Zero.

HydroPRS™ in a Circular Economy

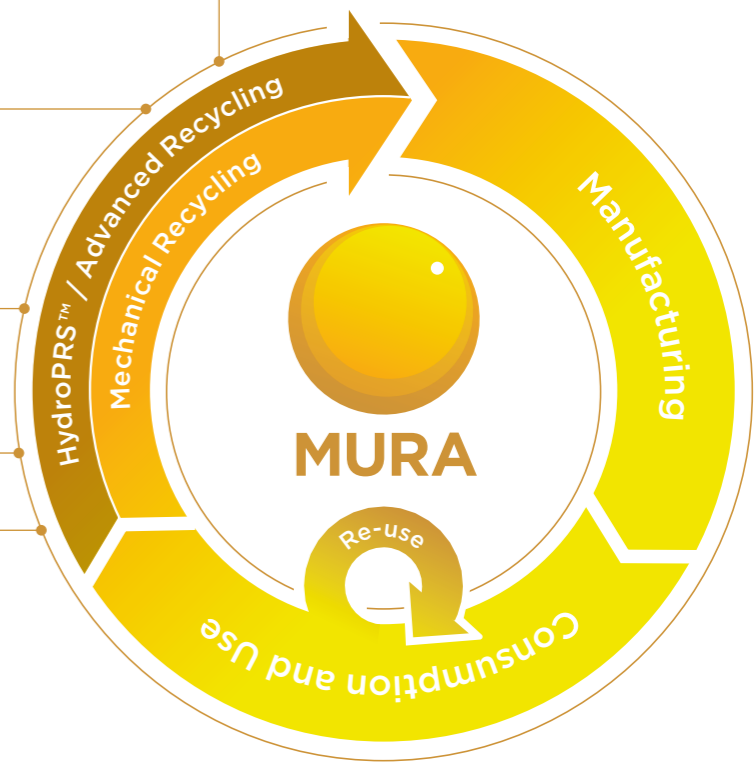
Plastic waste is diverted away from landfill, incineration and the environment and into recycling

The use of fossil feedstock for new plastics is reduced, leading to decarbonisation of the plastics industry

The scope for recyclable plastics is widened, including flexible and multi-layered materials

Unnecessary Single Use Plastic (SUP) is eliminated

No limits to the number of times plastic can be recycled using **HydroPRS™**



Advantages and Impacts

Sustainability and the Environment

Plastic pollution and global warming are urgent environmental challenges. Mura strives to address both with **HydroPRS™**, creating a true circular economy for plastic, whilst helping to decarbonise the petrochemical industry and eliminate global plastic pollution.

- ✓ **HydroPRS™** diverts plastic waste away from landfill and incineration and into recycling, reducing plastic pollution of the environment.
- ✓ The process increases the scope of recyclable plastics, including flexible, multi-layered plastics and post-consumer packaging.
- ✓ **HydroPRS™** exhibits substantial CO₂ savings when compared to incineration – supporting Net Zero ambitions. For Life Cycle Assessments, see page 29.
- ✓ **HydroPRS™** reduces the need for fossil fuel extraction by creating recycled hydrocarbons for use in the manufacture of new plastics.
- ✓ Minimal waste is produced - impurities in the plastic feedstock (colourants, additives etc.) fall into the heavier hydrocarbon feedstocks.
- ✓ Global roll-out of **HydroPRS™** will prevent the need for waste plastic export to developing countries.

Ocean Generation

Mura have partnered with Ocean Generation. Ocean Generation combines Plastic Ocean UK's decade-long experience of science and storytelling with the fresh energy of youth collective, Ocean Generation Foundation.

After raising awareness about ocean plastic pollution through 'A Plastic Ocean' documentary – praised by Sir David Attenborough as “one of the most important films of our time” – Ocean Generation are now focusing on ocean action. Ocean Generation are growing an inclusive global movement to tackle a wide range of ocean threats and influence policy change, together.



“We see a world where the ocean is freed from human threats within a generation. Our ultimate goal is to restore a healthy relationship between humanity and the ocean - because as the first generation to deeply understand ocean issues, we are also the last generation who can stop them. We are all the Ocean Generation.”

Ocean Generation

Life Cycle Assessment

To understand both the environmental impacts and Global Warming Potential (GWP) of the **HydroPRS™** process, alongside the CO₂ savings from diverting plastic waste away from incineration and into advanced recycling, Mura is working with partners on and contributing to several specific LCAs (Life Cycle Assessments), one of which is an in-depth LCA with Warwick Manufacturing Group (WMG - part of the University of Warwick). The full report is expected to be available at the end of 2021, with initial data indicating:



Significantly reduced Global Warming Potential (GWP)

of the **HydroPRS™**
process compared to
Energy from Waste

HydroPRS™ compares favourably to fossil
naphtha, supporting the ambition of a

viable pathway to Net Zero

for the petrochemical and plastics industries





enquiries@muratechnology.com
020 7749 2400

Mura Technology
141 – 145 Curtain Road
London EC2A 3BX