



Advanced recycling company Mura Technology accelerates global drive towards a circular plastics economy with LG Chem

- *Mura Technology announces an equity investment from LG Chem as it continues to scale its ground-breaking recycling process to tackle the global plastic waste and carbon emission crises.*
- *LG Chem has also purchased a process licence from Mura, which will enable the company to build South Korea's first hydrothermal plastics recycling facility using supercritical water.*
- *Announcement marks another milestone in Mura's target of developing one million tonnes of recycling capacity by 2025 and is another notable success for its Global Licensing Alliance with KBR.*

London, 18th January 2022 – Mura Technology (“Mura”), the UK-based plastics recycling technology pioneer, has completed an equity investment from LG Chem, a leading global chemical producer. The investment bolsters Mura’s plans to develop and deploy industrial-scale advanced recycling capacity across the world, with LG Chem joining the growing list of strategic partners adopting Mura’s technology.

In addition to becoming a shareholder in Mura, LG Chem has purchased a process licence from KBR, Mura’s exclusive global licensing partner. This licence will be a key driver in the continued international roll-out of Mura’s innovative recycling process, Hydro-PRTSM (Hydrothermal Plastic Recycling Technology), and LG Chem plans to construct a hydrothermal upgrading facility to initially recycle up to 25,000 tonnes of plastic waste annually.

Once the facility, which will be the first in South Korea to use supercritical water, is operational, LG Chem plans to review the potential for constructing additional sites. This will continue to drive Mura’s global impact following the recent announcement of its first US-based Hydro-PRTSM site near Seattle. Construction is already underway on Mura’s UK-based plant located in Teesside, which will be operational in 2022.

The partnership is also a significant milestone in Mura’s global expansion, particularly in the key market of Asia, which represents 48% of global plastic production. It is the second agreement signed as part of Mura’s partnership with KBR, and follows the announcement of a licence with Mitsubishi Chemical Corporation in June 2021, as well as strategic partnerships with Dow and Chevron Phillips Chemical Corporation. These partnerships give Mura the global reach needed to scale up Hydro-PRTSM and achieve its goal of developing one million tonnes of recycling capacity by 2025.

Hydro-PRTSM is capable of recycling end-of-life plastic; converting mixed plastic streams into fossil-replacement oils and chemicals, enabling plastic waste to be upgraded into new plastics and other products, including sustainable road materials. There is no anticipated limit to the number of times



the same material can be recycled, and the use of supercritical water within the process makes it inherently scalable.

South Korea is one of the world's leaders in plastic consumption per capita, and a crucial market for deploying Hydro-PRTSM. Post-use plastic from both the commercial and industrial sectors contributes significantly to increased levels of waste in South Korea, however capacity for recycling at scale remains low, particularly in high-traffic, urban areas, despite the country's aim to reduce its plastic waste by 20 percent by 2025¹. Successful deployment of Hydro-PRTSM will dramatically increase the potential recycling capacity in South Korea and will also serve as a blueprint for other countries around the world with similarly ambitious waste reduction targets.

Dr. Steve Mahon, CEO of Mura Technology: *"We are delighted to have LG Chem as a shareholder alongside our other strategic partners who are supporting us in the growth and deployment of advanced recycling capacity. This investment further shows the vital role Hydro-PRTSM will play in supporting a truly circular plastics economy globally and in tackling the carbon emissions caused by plastic."*

"We need efficient and scalable solutions today to cut plastic pollution, which is why we are continuing to work with industrial-scale partners around the world. These businesses provide the global platform our technology needs to drive real change, and our expanded partnership with LG Chem is another vital step towards a truly circular economy."

Kug-lae Noh, the President of Petrochemicals Company of LG Chem: *"LG Chem is pleased to announce an investment in Mura's Hydro-PRTSM Technology. By purchasing a licence, we will construct our own hydrothermal recycle facility using the process. We see this as an extremely important step towards tackling plastic waste pollution and slashing the carbon emissions which threaten our environment."*

Doug Kelly, KBR President, Technology: *"We are proud to be associated with LG Chem to support them with their sustainability initiatives. KBR is committed to helping clients realize their sustainability and ESG objectives."*

Each year, an estimated 300 million tonnes of plastic waste is generated, half of which is single-use plastics². Further, the extraction of fossil fuels and their transportation to plastic manufacturing sites emits 12.5 to 13.5 million tonnes of greenhouse gases³ every year. A circular economy, in which plastics are reused, remade, and recycled, could slash CO₂ emissions by 39% across the globe.

¹ <https://en.yna.co.kr/view/AEN20201224005700315>

² <https://www.unep.org/interactive/beat-plastic-pollution/>

³ <https://yaleclimateconnections.org/2019/08/how-plastics-contribute-to-climate-change/>



Mura's Hydro-PRTSM process will play a central role in a global circular economy by providing a radical new way to recycle all forms of end-of-life plastic that would otherwise be incinerated, sent to landfill, or leak into the environment as plastic pollution, helping to eliminate unnecessary single-use plastic and cut carbon emissions.

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Notes to Editors

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About Mura Technology

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. It is pioneering a scalable process to divert waste plastic away from incineration, reduce carbon emissions and prevent millions of tonnes of plastic from entering the natural environment every year.

The process, Hydro-PRTSM (Hydrothermal Plastic Recycling Technology), creates a much wider scope for recycling all types of plastic, including flexible, multi-layered film and post-consumer, contaminated materials. Mura is partnering with the entire plastic recycling value chain, including international consumer brands, resin producers and waste management companies, to scale the process worldwide. The company aims to have 1,000,000 tonnes of plastic recycling capacity in operation or development by 2025.

Visit www.muratechnology.com

About LG Chem

LG Chem is a global leading diversified chemical company that mainly operates petrochemicals, advanced materials and life sciences businesses. The chemical business manufactures a wide range of products from high-value added petrochemicals to renewable plastics. LG Chem also extends its chemical expertise into high-tech areas such as electronic & battery materials and drugs & vaccines to deliver differentiated solutions for our customers. LG Chem aims to reach carbon-neutral growth by 2050 and promote RE100 at all business sites worldwide to suppress carbon emissions to 10 million tons, which is equivalent to the amount in 2019. Throughout multiple production facilities and extensive distribution network around the globe, LG Chem employs approximately 17,000 people and generated sales of KRW 30.1 trillion(USD 25.9 billion) in 2020. For more information, please visit www.lgchem.com.



About KBR

We deliver science, technology and engineering solutions to governments and companies around the world. KBR employs approximately 29,000 people worldwide with customers in more than 80 countries and operations in 40 countries. 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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