

Dow and Mura Technology announce largest commitment of its kind to scale global advanced recycling rates

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Australian-based low carbon technology pioneers, [Licella Holdings](#) (Licella), congratulate [Mura Technology](#) (Mura), UK-based developer and licensee of Licella's Cat-HTR™ platform, on its announcement with Dow (NYSE: DOW), the world's leading materials science company. Building upon its existing partnership, the companies announced their intention to construct multiple world-scale 120 kilotons (KT) of advanced recycling facilities in the U.S. and Europe – collectively adding as much as 600 KT of annual capacity by 2030.

Licella's [Catalytic Hydrothermal Reactor \(Cat-HTR™\)](#) platform is the world's leading hydrothermal liquefaction technology, the next-generation of advanced plastic recycling. The Cat-HTR™ uses supercritical water to convert waste plastics, otherwise destined for landfill, into the highest-yield of oil of any plastic to oil technology. In doing so, it unlocks an economically and environmentally sustainable circular economy for all plastic.

This further commitment from Dow is an important milestone in the rapid global roll-out of Mura's HydroPRS™ (Hydrothermal Plastic Recycling Solution) process.

Mura's first advanced recycling facility is on track to be operational with a 20 KT per year production line in the U.K. in 2023. The HydroPRS™ facility, which is built around Licella's Cat-HTR™ technology at its core, will supply Dow and others with the materials needed to create a 100% recycled feedstock. Dow's commitment to closing the loop on plastic waste aligns with the increased commercial demand for recycled material from its customers, as they supply major brands across the globe with sustainable products.

The ongoing investment and offtake commitment from Dow to Mura's commercial pipeline demonstrates Dow's confidence in Mura's advanced recycling process, and Licella's Cat-HTR™ technology at its core.

Deployed at scale, it has the capability to prevent millions of tons of plastic and CO₂ from entering the natural environment every year, as well as create the ingredients for a sustainable, circular plastics economy – a mission which Dow is jointly committed to supporting with its materials science expertise.

Licella CEO and Cat-HTR™ Co-Inventor, Dr Len Humphreys, commended the partnership's dedication to providing leadership in the global circular economy for plastic.

“Combining Dow's global footprint and experience with game-changing advanced recycling technology is the type of collaboration needed to affect positive and sustainable change in the way we manage, and ultimately recirculate, plastic. Licella are delighted to continue to support the partnership through ongoing technology expertise and technology development support.” he said.

A circular economy, in which plastics are reused, remade, and recycled, could cut CO₂ emissions by almost 40% globally.

Read the [Dow and Mura Technology release here](#)

About Licella Holdings Limited (Licella)

Licella's patented Catalytic Hydrothermal Reactor (Cat-HTR™) is the world's most commercially advanced hydrothermal liquefaction ('HTL') technology – the next-generation of advanced recycling. HTL chemically transforms low value and waste feedstocks into a high-quality oil, which can be refined to high value sustainable and renewable fuels and chemicals. With more than A\$120M invested over the past 14 years, the Cat-HTR™ platform is proven across a wide range of feedstocks, including End-of-Life Plastic and biomass residues. www.licella.com **Licella video available here**

Media Enquiries - Andrea Polson, Marketing Director: andrea.polson@licella.com