

NX Replast™

Our solution for
plastic upcycling

About NEXTCHEM

NEXTCHEM is MAIRE's company dedicated to Sustainable Technology Solutions. Leveraging our profound expertise in nitrogen, hydrogen, carbon capture, fuels, chemicals, and polymers, we deliver groundbreaking solutions and processes that fully enable the energy transition.

Building on the rich legacy of our group for over 70 years, we are dedicated to developing and offering technology solutions, processes, basic engineering designs, as well as proprietary equipment and catalysts, to drive global decarbonization efforts forward.

How to create value from plastic waste

Valorizing mixed rigid plastic waste into high-performance compounded recycled polymers is a crucial driver for plastic upcycling.

A significant challenge lies in establishing a connection between Waste Management Companies and Virgin Polymer Producers, thereby offering a comprehensive one-stop-shop for plastic upcycling solutions in the B2B sector.

Our solution to maximize the valorization of plastic waste

NX Replast™ is a complete solution for a fast deployment of new advanced Mechanical Upcycling plants to maximize the valorization of plastic waste into circular r-polymers, based on the experience gained in the development and industrial operations of MyReplast Industries' reference plant¹.

This solution offers a holistic approach in accelerating and facilitating the design and the deployment of new upcycling plants.

1. 40 KT/Y industrial plant operating in Italy. More info: <https://www.myreplastindustries.it/en/>

NX Replast™

A holistic approach for new upcycling plants

Solution Applications

Waste Management Companies

Recycling Companies

Polymers Producers

Product Applications

Automotive

Home and gardening

Building application

Irrigation

Others

Your benefits

- 1 Reduced time to market for Client (through our pre-engineered flexible and ready-to-go industrial solution)
- 2 Production adaptability associated with feedstock variability
- 3 Compounding B2B™: Tailor-made formulation for specific top-quality industrial applications

Simplified technical overview

The feedstock undergoes different processing steps for its purification before going compounded through proprietary formulation.

