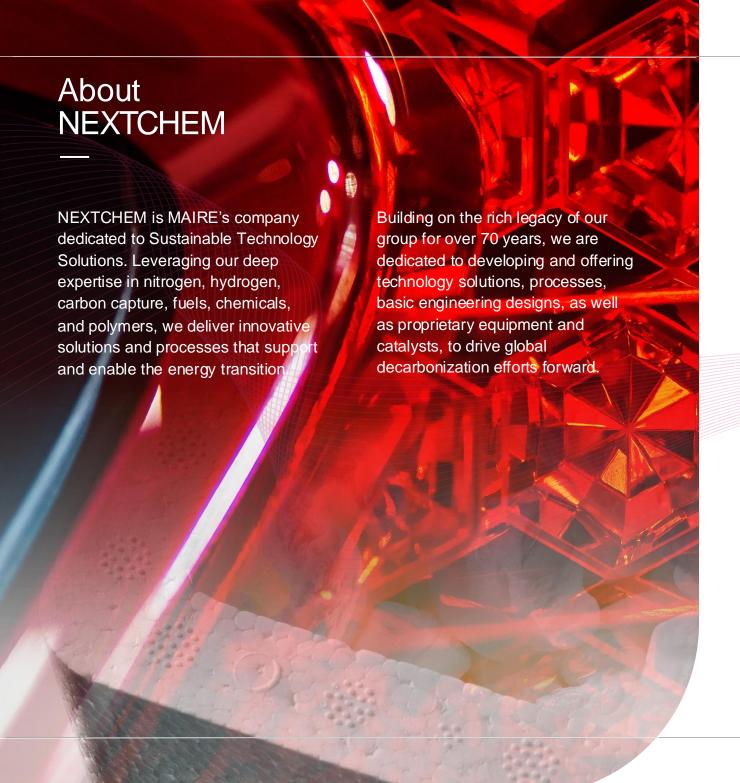


Our solution for plastic waste chemical recycling







Chemical recycling: key enabler for plastics circularity

Plastic is a key material for nowadays society. It is light, resistent and relatively cheap.

These characteristics favoured plastics penetration at every level of our society for a total annual production of more than 400Mt/y. Therefore it is paramount to enable plastics circularity under the creation of new levers for recycling. While mechanical recycling is a robust approach and will continue to play a key role – it has clear limitation in performance and in feedstock flexibility.

To overcome such constraints chemical recycling is expected to play a pivotal role by breaking down plastic in Its key componens (monomers) for further polymerization into 'virgin-like plastic'.

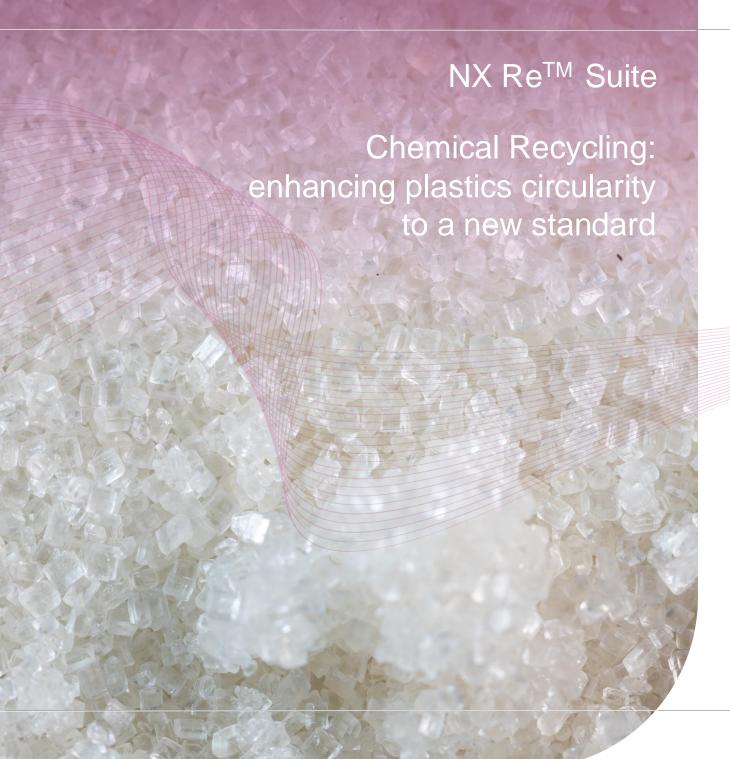
Depolymerization: Our solution for chemical recycling

NX Re[™] Suite is an innovative technology targeting well defined plastics typology such as PMMA (Polymethylmethacrylate – commonly known as Plexiglas), PS (Polystyrene), and PO (polyolefins).

NX Re[™] Suite is based on a depolymerization reaction of plastic waste in a reactor operated with a continuous flow of molten metal. The technology produces a high-purity monomer for polymerization into virgin-like recycled plastic.

NEXTCHEM is launching its reference plant on NX Re[™] PMMA by H1 2026 and it will offer license, process design package (PDP), proprietary equipment (PEQ), training, digital & post-sales (O&M) services.





Applications

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Your benefits

1 CAPEX and OPEX efficiency

2 High conversion efficiency

Modular and compact technology design starting from ca. 5kt/y of capacity (single line)

Technology suitable for treating different plastic waste matrices



Technical overview

