

## **Abstract Presentation EREMA GROUP, Klaus Lederer at NOVA Advanced Recycling Conference 2023**

### **Topic: “Advanced Recycling and Feedstock preparation technologies for chemical recyclers”**

The Erema Group is the leading pioneer in the field of plastics recycling since 40 years. Bringing a real circular economy of plastics to reality it is essential to leverage and further develop each single stream of recycling including physical and chemical pathways.

Apart from chemical recycling often referred to as “ADVANCED RECYCLING”, also mechanical recycling is seeing strong developments and innovations which are essential for the industry to further develop.

Klaus’ speech gives examples for ADVANCED MECHANICAL RECYCLING solutions while also introducing selected mechanical FEEDSTOCK PREPARATION TECHNOLOGIES intended for CHEMICAL RECYCLERS.

While Food Approved Applications can and will be a strong driving argument for the chemical recycling industry, this is as well a key topic in mechanical recycling. Already today there are good examples for FDA approved recycling technologies and products. But also in direction of EFSA the new EU regulation 2022/1616 is a great opportunity for Polyolefin food contact material recycling.

Presented Technology Examples for advanced recycling include the INTAREMA DuaFil® Compact, EREMA’s energy saving double filtration technology, but also the INTAREMA® FibrePRO:IV first time allowing for mechanical Fibre2Fibre recycling. Deinking Technologies are bridging the gap between mechanical and solvent based recycling.

When it comes to Chemical Recycling, EREMA is focusing on material preparation solutions including its CHEMAREMA® line of machinery which has been sold many times for global thermal conversion projects. The target is to enable chemical recyclers to fulfill their commitments in being a complementary technology stream to mechanical recycling. This only will come true if feedstocks can be used, that otherwise could not be recycled.

The presentation will further touch on preparation solutions for Solvent Based recyclers. Compacting Technologies for Chemical Recycling is a new field that will see innovation in the future.

The EREMA approach is to be a neutral and connecting point serving both worlds of mechanical and chemical recycling. We consider this especially relevant for a topic which is potentially discussed quite controversial.