EARTH
RENEWABLE
TECHNOLOGIES

Reimagining Plastics
for a **Regenerative World**

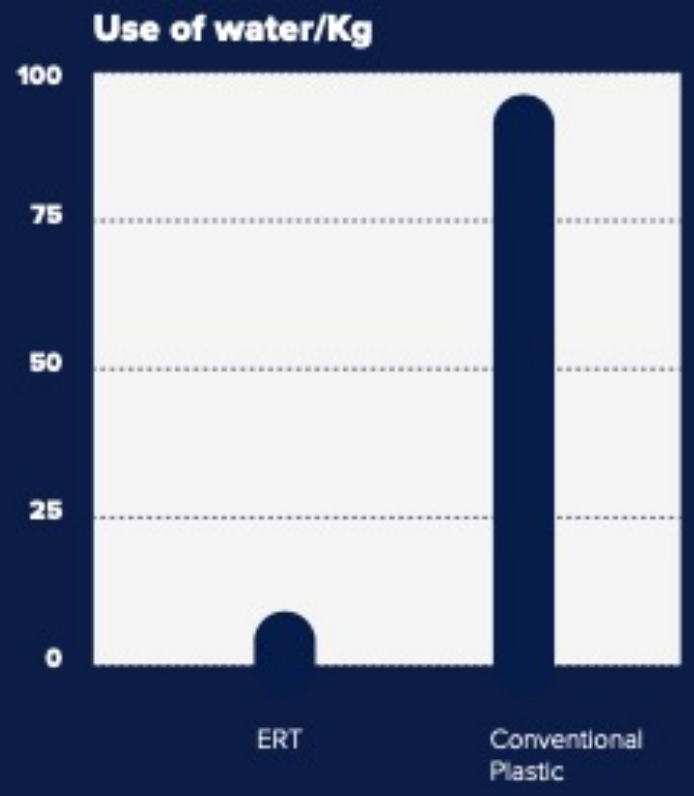
ERT develops leading technology towards sustainable solutions and ESG leadership

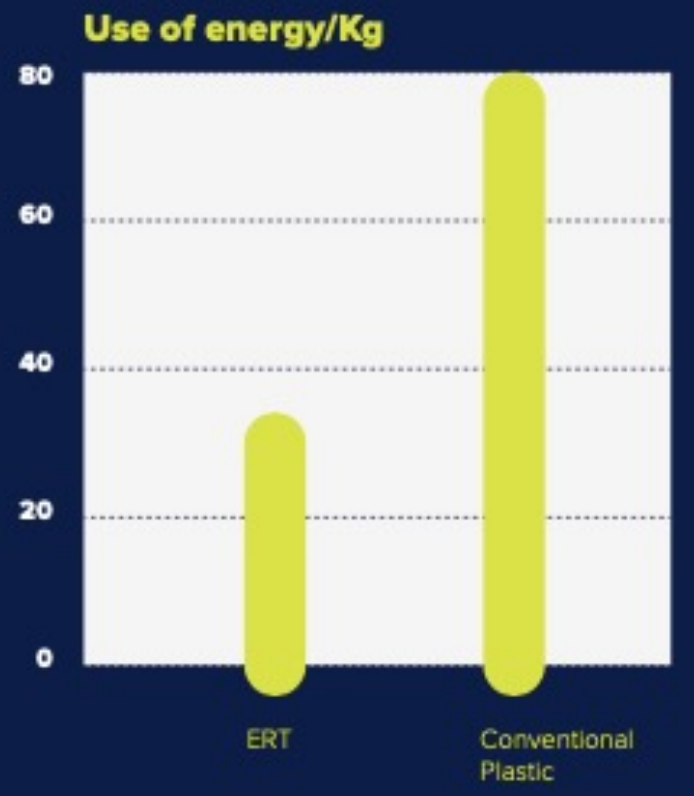
BioPlastic Introduction

Bioplastics are driving the **evolution** of plastics.

Current **bioplastics** makes up less than **1%** of the global plastics market, where **ERT** can have a significant share of this growth.

How are we contributing to avoid a climate disaster?

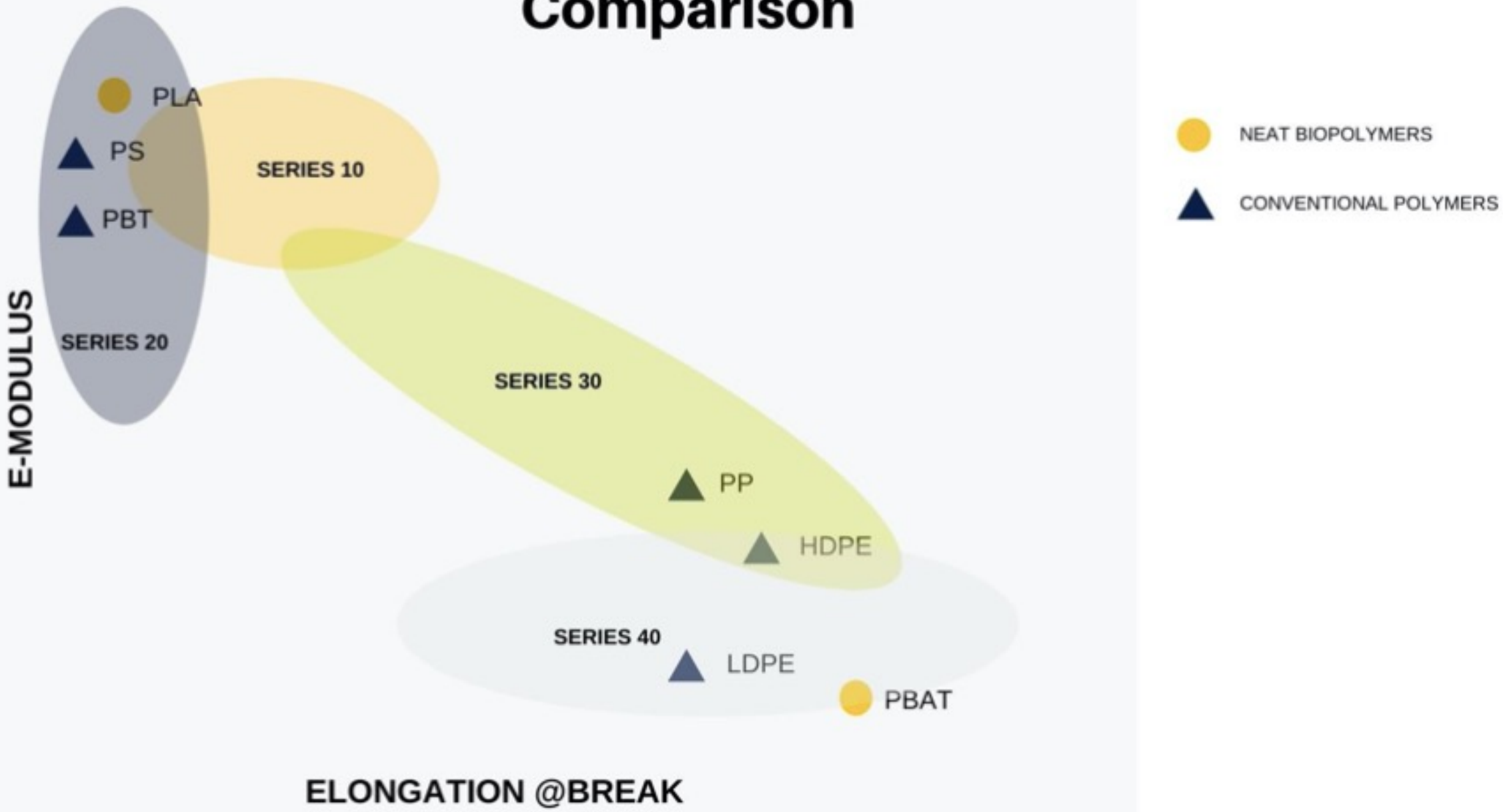




Pictures of Current facility and production line

Products

Comparison


PLA
PS
PBT
SERIES 10
SERIES 20
SERIES 30
PP
HDPE
SERIES 40
LDPE
PBAT
E-MODULUS
ELONGATION @BREAK
NEAT BIOPOLYMERS
CONVENTIONAL POLYMERS

SERIES 10

Sustainability and performance are the goals of 10000 Series of full compounds. Using a novel and revolutionary microfiber technology we reached both targets. SFRP combine the advantages of polymer's good impact resistance and low weight with the high stiffness and strength of reinforcing fibers. Easeof processing and worldwide accessibility make thermoplastic SFRP suitable for mass production.

FC 10130 - INJECTION STRETCH BLOW MOLDING

EarthBottle has transfer properties comparable to HDPE and PET and superior to existing PLAs to support a wide range of uses. EarthBottle sets the standard for plant-based materials as a versatile alternative to petroleum-based packaging.

earth bottle | by ERT

SERIES 20

Perfomance and Cost Reduction are the goals for 20.000 Series of full compounds. Using renewable and advanced mineral technologies developed specifically for PLA in order to improve the stiffness, impact resistance, elongation and heat transfer in opaque application.

FC 20040 - THERMOFORMING

Thermoforming With Biobased Plastics for Greater Sustainability! Bioplastics using conventional mineral fillershas led to poor product performance as a result of hydrolysis during processing. For this reason, high loadings of Calcium Carbonate in PLA or PLA rich compounds have not been feasible or beneficial. the development of Omya Smartfill® technology the situation has changed. Products like Omya Smartfill® developed specifically for PLA applications demonstrate almost no hydrolysis when processed at high loading. At the same time, the addition of Omya Smartfill® improves product stiffness, impact resistance, elongation, heat transfer, and it contributes to an overall reduction in formulation cost.

FC 32130 - INJECTION MOLDING

We believe packaging should be regenerative and help to heal the environment throughout its lifecycle. Sana Packaging provides you with high-quality, compliant, and sustainable packaging solutions that you and your customers will feel great about using.

Sana Packaging

SERIES 40

Sustainability in our flexible films are the key here. 40.000 Series of blow film grades is a reliable and cost effective replacement for plastics in all flexible application (bags, packaging, mulch films,etc...). We create exclusive PLA composites with proprietary technology to allow the use of highly biobased films.

FC 45140 - CARRIER BAGS

Carrier bags are the perfect alternative to lightweight non-biodegradable plastic bags as they provide all the positive aspects which made traditional bags so popular (strength, water resistance etc) but are certified as biodegradable and compostable and as such can also be reused for the collection of food waste.

FC 45141 - ORGANIC WASTE COLECTION

The separate collection of organic waste is of strategic importance for the environmental sustainability of waste managementThe use of biodegradable and compostable bags is proven to be an indispensable tool for the most effective separate collection of organic waste for use in the production of high quality composts and digestates.

Thank You!

Reimagining Plastics for a Regenerative World

earthrenewable.com