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- Advanced Circular Solutions overview
- The path forward to a sustainable future

A materials innovation company

- More than 100 years of vital innovations that enhance people's lives every day
- A Fortune 500 company with approximately:
 - 14,500 employees
 - 10 billion USD in revenue in 2020
- Dedicated to enhancing the quality of life in a material way
- Sustainability strategy commitment to:
 - Mitigating climate change
 - Mainstreaming circularity
 - Caring for people and society























A diverse portfolio of businesses

Additives & Functional Products



2020 sales revenue: \$3.0B 36% of total Eastman sales





2020 sales revenue: \$2.5B 30% of total Eastman sales



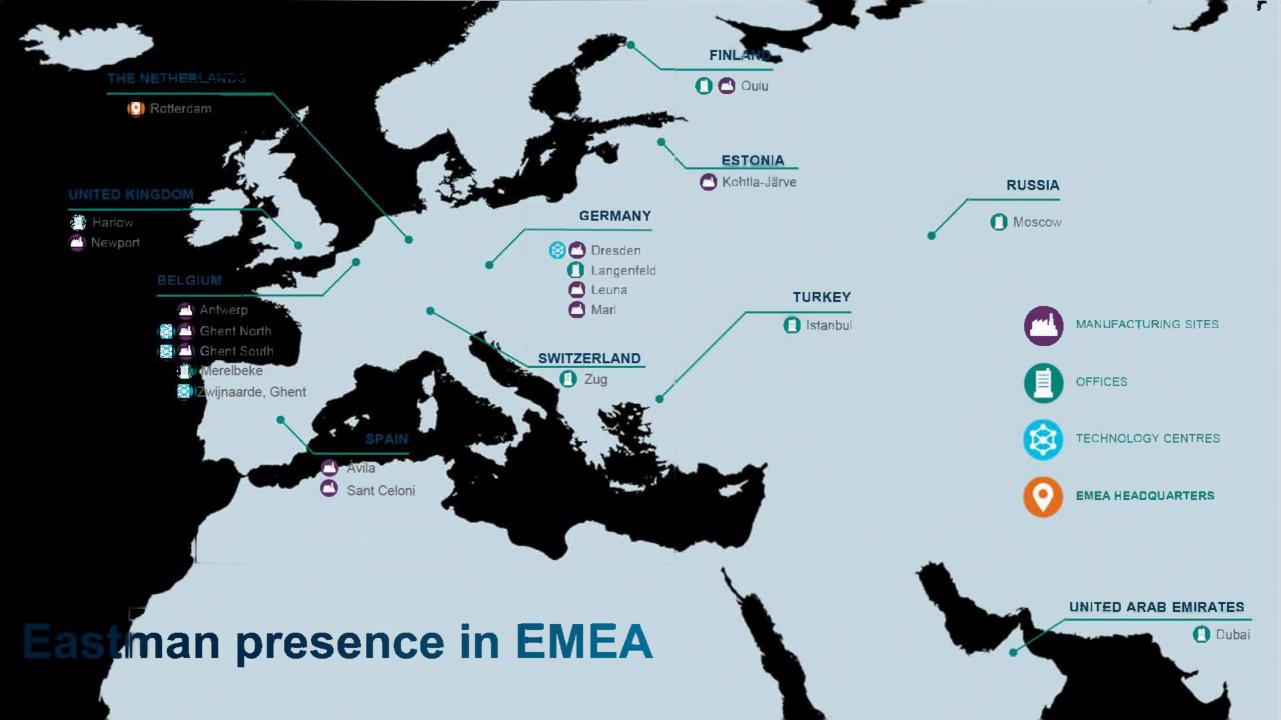


2020 sales revenue: \$2.1B 25% of total Eastman sales





9% of total Eastman sales



Sustainable innovation

driven by the world's greatest challenges



SOCIETY



Replacing antibiotics VOC/odor-free in feed additives hygiene



BPA-free in medical



BPA-free in F&B packaging coatings



CLIMATE



Light-weighting electric vehicles



Improving energy efficiency in housing



Improving energy efficiency in auto



CIRCULARITY





Naia™ Renew in textiles



Acetate Renew in ophthalmics



Tritan™ Renew in durables, electronics



Cristal™ Renew in cosmetics



Committed to creating change. NOW.

LINEAR **ECONOMY**

Where we've been









Raw materials

Manufacturing

Distribution

Consumption/use

Waste

CIRCULAR ECONOMY

Where we're going

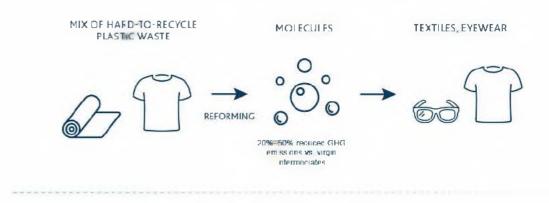


Advancing circular solutions: Our vision

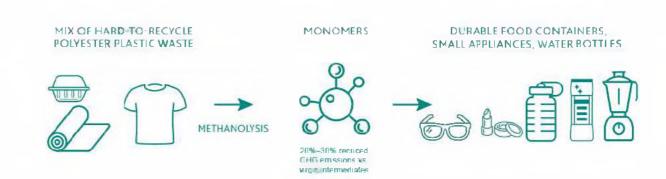
At Eastman, we believe in a true circular solution:

- Is material to material, not material to fuel
- Is complementary to mechanical recycling
- Prevents landfill or incineration
- Produces products with equivalent or better performance relative to the original process
- Reduces the amount of new fossil feedstocks (or hydrocarbons) that would otherwise need to be extracted
- Has a carbon footprint better than the original manufacturing process for the same product

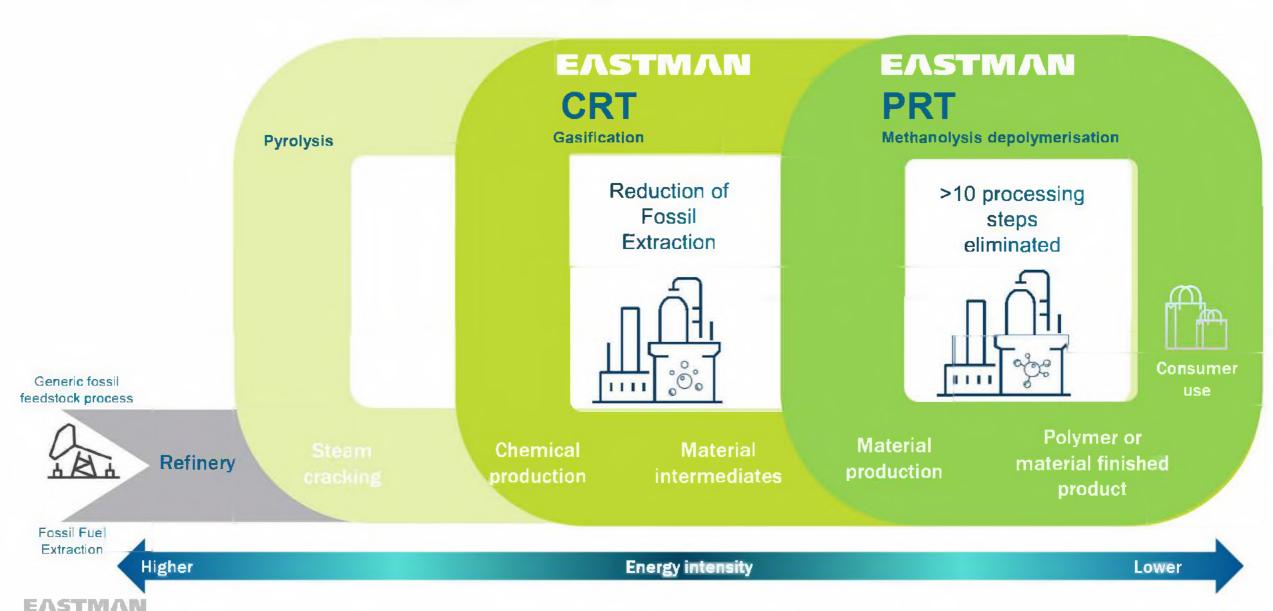
CARBON RENEWAL TECHNOLOGY (CRT)



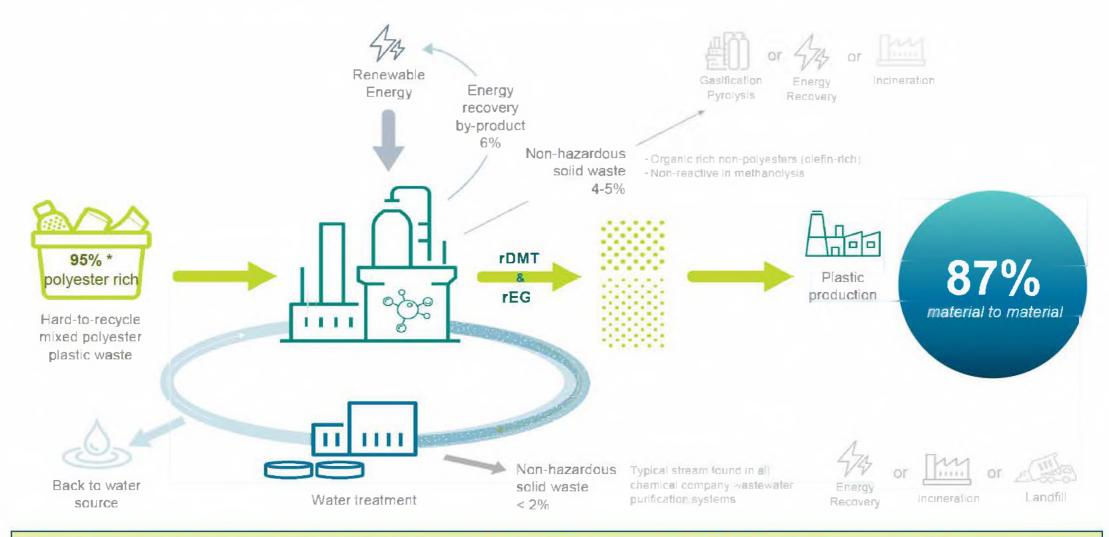
POLYESTER RENEWAL TECHNOLOGY (PRT)



General technology comparison



PRT: Where does the material go?



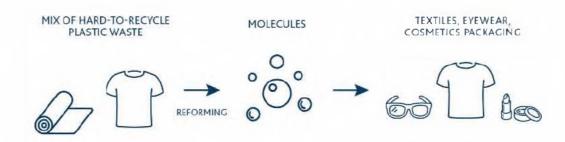
93% conversion to monomers at polyester level. Up to 80% reduction in GHG emissions vs. traditional materials.

A big step towards a smaller footprint

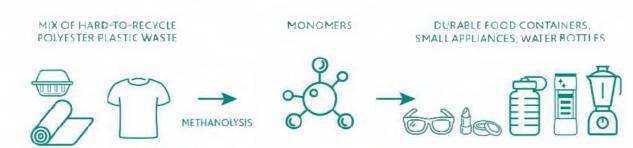
To assess our technologies environmental impact, Eastman runs LCAs that are externally reviewed and verified by a third party.

CRT
Enables a
20% - 50%
reduction in
carbon footprint.

CARBON RENEWAL TECHNOLOGY (CRT)



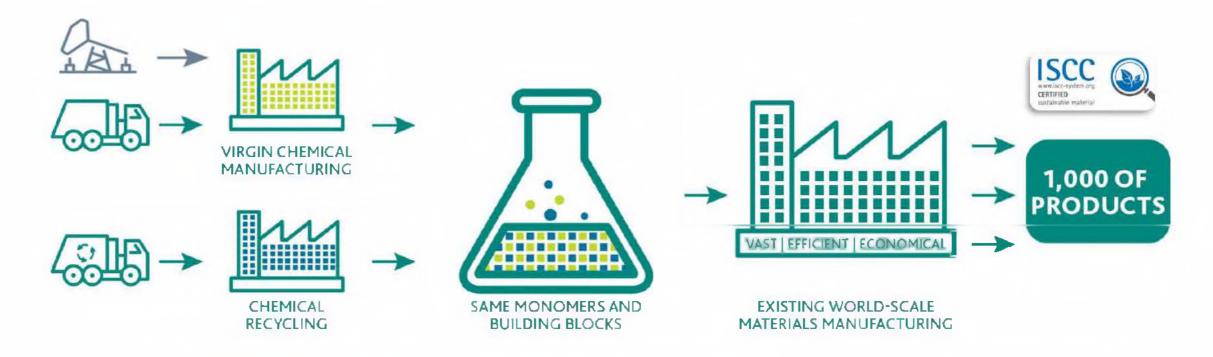
POLYESTER RENEWAL TECHNOLOGY (PRT)



PRT

Enables a
20 - 30% reduction
in carbon footprint
in the production
of key building
blocks
(monomers).

Mass balance allows recycled feedstocks and fossil feedstocks to be processed together



Mass balance

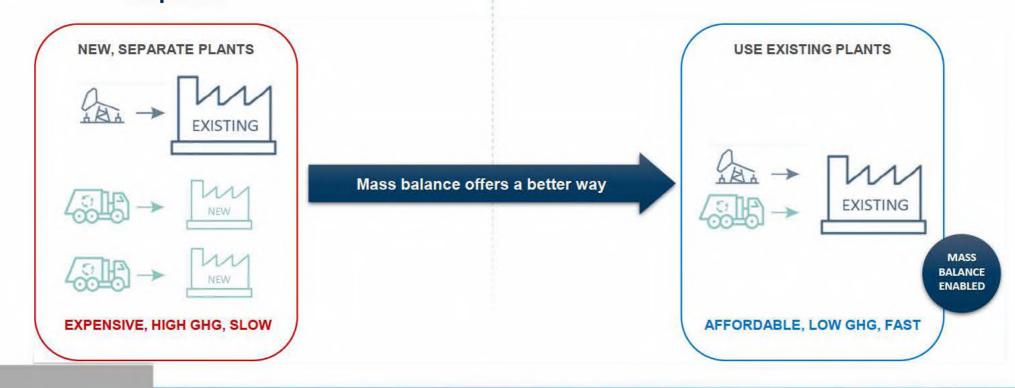
- Is an accounting system that enables chemical recycling to happen at massive <u>scale</u>
- Tracks recycled materials co-processed together with virgin in <u>existing</u> assets
- Guarantees the recycle content allocated to products balances with inputs
- Enables linkage of recycled capability to market demand



Mass balance is necessary to achieve scale now

Without mass balance, duplicate infrastructure is required (plants, storage, logistics, etc.), essentially making it cost prohibitive to get to large scale by dramatically increasing timelines, costs, and carbon footprints.

With mass balance, existing assets can be modified to start scaling waste plastic as feedstock quickly.

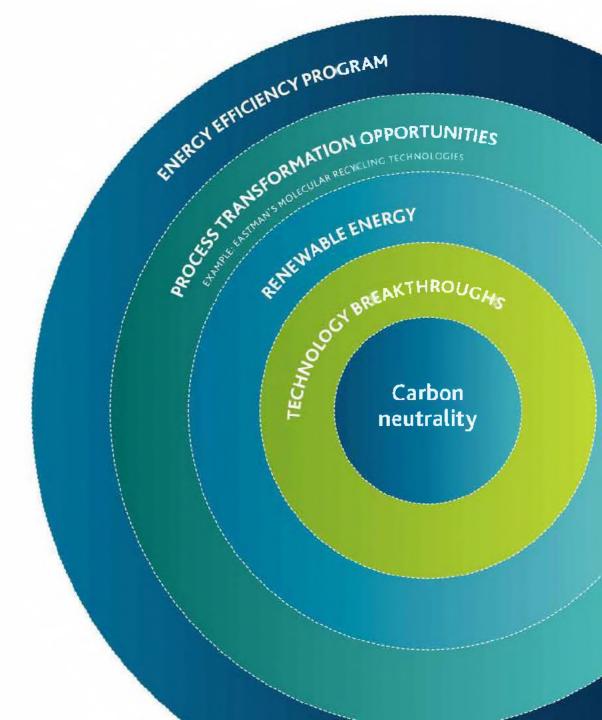


BUILDING A BETTER CIRCLE.

Eastman is activating a circular economy. **TODAY**.

We are committed to . . .

- Recycle more than 225,000 MT, of waste plastics annually by 2030.
- Only pursue material-to-material technologies and products that have a lower greenhouse gas footprint compared to those that use fossil feedstocks.
- Achieve carbon neutrality by 2050.





World's largest plastic-to-plastic molecular recycling facility under construction in the US



Plant facts

- >\$250M investment to build methanolysis plant
- Located at Kingsport, Tennessee facility
- Consuming 100,000 MT annually of recycled waste plastic¹; will produce recycled monomers
- Start-up in 2023 as world's largest plastic-to-plastic molecular recycling facility

Renew materials

- Recycled output will be used to produce 150-200 kMT annually of recycled specialty polymers across our portfolio
- Renew materials will be primarily in Durable Goods across Housewares, Electronics, Medical, and other applications

Environmental Impact

- Recycled intermediates with 20-30% lower GHG emissions compared to conventional processes²
- Resulting in reduction of >45,000 MT of CO2 equivalent emissions³

^{1 –} Projected Eastman annual capacity for methanolysis facility

^{2 -} GWP/GHG reduction for final product resins depends upon specific product grade and composition

^{3 –} Projected greenhouse gas improvement over conventionally produced intermediates

Renew materials from the US Plant will be utilized across our portfolio of specialty polymers















INBLCOM





Dior

LANEIGE





IncipioGroup



Herbal Essences



AMORE PACIFIC

















OVERVIEW Plant in Europe



Investing in local recycling Infrastructure to support a circular economy for plastic

World-scale plastic-to-plastic molecular recycling facility announced in Europe



Plant facts

- Up to 1 billion USD investment to build material-to-material molecular plastics recycling facility
- Located in France
- Consuming 160,000 metric tons annually of recycled waste plastic¹; will produce recycled monomers
- Expected to be operational in 2025, creating employment for 350 people and leading to an additional 1,500 indirect jobs in infrastructure and energy.
- Includes an innovation center for molecular recycling to advance alternative recycling methods and applications aimed at curbing plastic waste incineration and leave fossil feedstock in the ground.

Renew materials

- Multi-phase project includes:
 - Units that will prepare mixed plastic waste for processing
 - A methanolysis unit that will depolymerize the waste, and
 - Polymer lines that will create a variety of first quality materials for specialty, packaging, and textile applications.

Environmental Impact

 At this plant, materials can be produced with greenhouse gas emissions up to 80 percent less than traditional methods due to the technology's inherent efficiencies and the renewable energy sources available in France.²

^{1 –} Projected Eastman annual capacity for methanolysis facility



Eastman has already signed letters of intent for multi-year supply agreements with several major brands, including

LVMH

MOËT HENNESSY • LOUIS VUITTON





L'ORÉAL





Five ways European policymakers can accelerate the transition to a true circular economy

Acceptance of chemical recycling to effectively deal with the plastic waste crisis

It is essential that the definition of recycling remains "technology neutral" at the EU level.

Securing a constant flow of highquality secondary raw materials; sufficient feedstock

All "plastic waste" should be recycled and calculated toward the recycled content targets

Incorporating broader streams of plastic waste increases the efficiency and productivity of recycling programs and increases market demand for sustainable solutions, which will build a more robust recycling infrastructure quicker. Chain-of-custody system to calculate recycled content

Mass balance is a chain-of-custody system that is essential to accelerate the transition to a circular economy. It enables innovative recycling of materials today with the

manufacturing infrastructure we have today without the economic and environmental impact that would accompany

the building of new assets.

Transparency

Fastman strives to ensure that we manufacture products that are safe for our employees to handle and for our customers to use. We support the European Commission's work on transparency and the idea of creating a digital product passport. However, to avoid any additional burden (like duplication of information requirements or different reporting mechanisms) on companies, interoperability with existing databases or information already present online will be crucial. It is also key that the confidentiality of certain data be protected and secured.

A shared vision to build a more sustainable future For more information visit www.eastman.eco