ENSTMAN

A Material Revolution to Enable True Circularity in Manufacturing

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A materials innovation company

Eastman is a materials innovation company that is:

- Dedicated to **enhancing the quality of life** in a material way
- Committed to mitigating climate change, mainstreaming circularity and caring for people and society
- Celebrating the inclusion of its diverse global workforce; 14,500 employees
- A Fortune 500 company with approx. 10.6 billion USD in revenue and more than 100 years of vital innovations























GENERAL MATERIAL-TO-MATERIAL RECYCLING TECHNOLOGY COMPARISON

Excludes waste-to-fuel and waste-to-energy processes, since Eastman does not consider them to be recycling.



Methanolysis – Polyester Renewal Technology (PRT)



Diverting hard-to-recycle material from landfill



Colored rejects from mechanical recyclers



Post consumer purge from mechanical reclaimers



Green strapping. Used strapping that held items to pallets.



PET trays Curbside collected consumer waste.



Textile purge. Waste from the textile industry making dyed polyester fiber.



Pre-consumer fiber Waste generated in the textile value chain.



Renew is available for all markets and applications.





Apparel | Appliances | Automotive | Cosmetic Packaging | Electronics | Eyewear | Food & Beverage Packaging | Healthcare Packaging | Hydration | Personal Care Packaging | Serveware & Storage | Textiles

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Credit-Based Mass Balance reduces operational complexity



For illustrative purposes only.

Eastman's molecular recycling project in Port-Jérôme-sur-Seine, Normandy, France

Key facts and figures



Feedstock and plant capacity

As of April 2023, Eastman has secured 70% of the feedstock it would need to reach full capacity for the first phase of the plant. Eastman's objective is to secure 80% of the feedstock for phase one by the end of 2023. At full capacity, after both ramp-up phases, the plant would be able to treat more than 200,000 tons of polyester-rich waste, compared to the 160,000 tons initially announced.

	Phase I (tonnes)	Phase II (tonnes)	Total (tonnes)
Total waste input*	140,000+	140,000+	280,000+
Hard-to-recycle polyester waste treated by the plant	110,000+	110,000+	200,000+
rPET and specialty output	100,000+	100,000+	200,000+

Human resources



Eastman's plant in Normandy would create employment for approximately 350 people and lead to 1,500 indirect jobs in recycling, energy and infrastructure. Operators and engineers would be recruited in advance to take into account a training period. Hiring efforts are expected to ramp up beginning in 2025.

Energy plant

Energy plant — Phase I Operated by Veolia			
Energy plant	Two 50-MW boilers	Cogen unit	
Fuel	200,000 tonnes/year	Mix of biomass and RDF	

To provide Eastman's recycling facility with the energy it would need at the different stages of its process, Eastman intends to partner with Veolia, who would build an energy plant on the Eastman plot in Port Jérôme. This energy plant would produce steam, heat and electricity and be fueled by a mix of biomass (recycled wood) and refuse-derived fuel (RDF).



*Non-polyester waste inputs separated in the preparation step are planned to be processed by mechanical and or chemical recycling.

The world's largest molecular recycling facility Kingsport, Tennessee, USA



Construction is almost complete.

Startup expected by end of year.



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Questions?

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