



EASTMAN

Creating tomorrow's recycling infrastructure

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[eastman.com](https://www.eastman.com)

A materials innovation company

- Celebrating more than **100 years of vital innovations that enhance people's lives every day.**
- A Fortune 500 company with approximately **14,500 employees** and **approximately 10.5 billion USD** in revenue
- Dedicated to **enhancing the quality of life in a material way**
- Sustainability strategy commitment to **mitigating climate change, mainstreaming circularity** and **caring for people and society**



Eastman.com/circular

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MECHANICAL AND MOLECULAR RECYCLING

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MECHANICAL RECYCLING



PET BOTTLE



CHOPPED-UP
BOTTLE



RE MELTED INTO
NEW APPLICATIONS
















Extends useful life of
material but eventually
must be downcycled
or landfilled



LANDFILL

PRODUCT DEGRADES WITH EACH CYCLE

Mechanical recycling is not enough to solve the plastic waste problem.

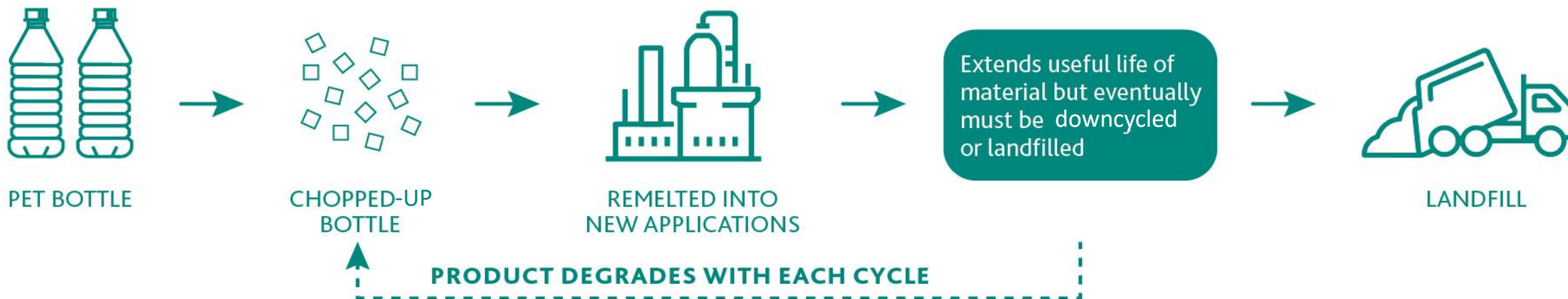
		Common Uses	Share of Plastic Waste Generated	Mechanically Recycled?
 PETE	Polyethylene Terephthalate	Bottles	14%	Yes (clear) ~ 30% recycle rate
		Films, Forms, Other		X
		Textiles	N/A	Very Little
		Carpet	N/A	Very Little
 HDPE	High Density Polyethylene		17%	Yes ~ 9% recycle rate Natural HDPE ~ 31%
 PVC	Polyvinyl Chloride		3%	X
 LDPE	Low Density Polyethylene		23%	Very Little
 PP	Polypropylene		23%	Very Little
 PS	Polystyrene		7%	X
 OTHER	Other (acrylic, polycarbonate, PETG, mixed plastics)		13%	Very Little Diversity of materials risks contamination

Most mechanical recycling results in **downcycling** into lower value products that eventually are landfilled.

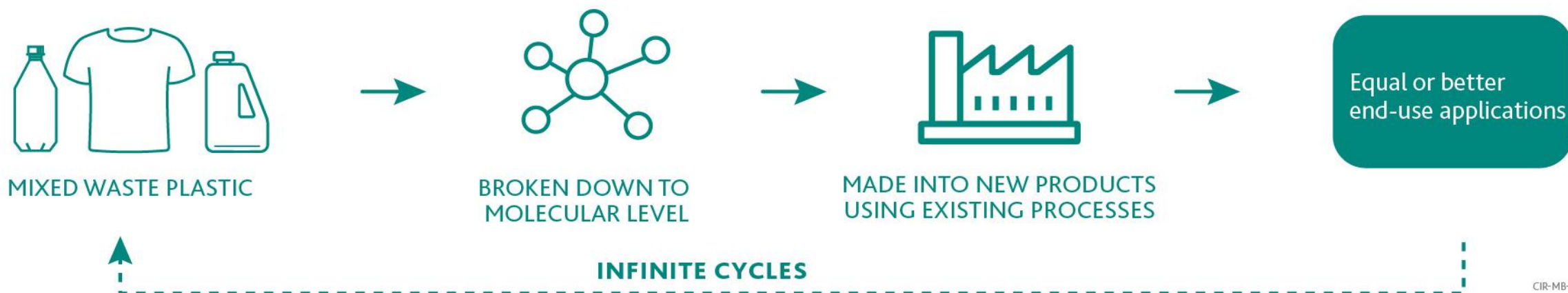
MECHANICAL AND MOLECULAR RECYCLING

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MECHANICAL RECYCLING

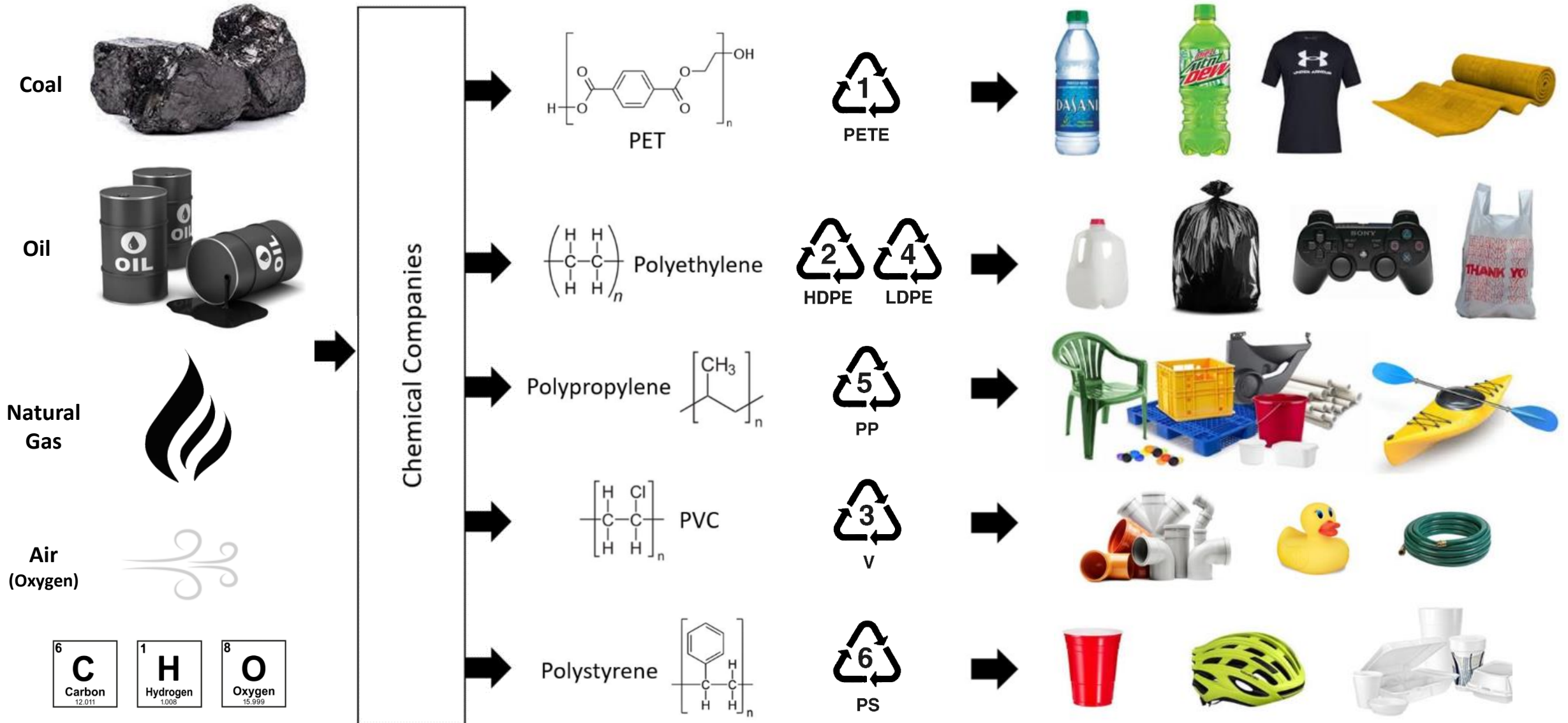


MOLECULAR RECYCLING



Chemical companies make materials/plastics used to make stuff

These materials/plastics are made mostly from carbon , hydrogen , and oxygen 



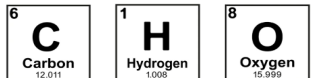
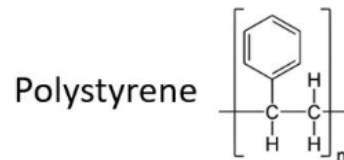
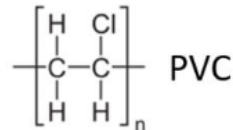
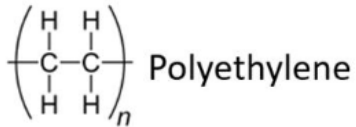
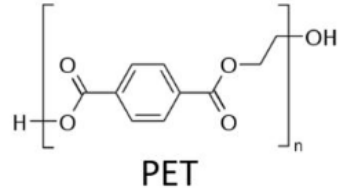
Chemical companies make materials/plastics used to make stuff

These materials/plastics are made mostly from carbon , hydrogen , and oxygen 

Plastic & Textile Waste
(Carbon, Hydrogen, and Oxygen)



Advanced or Chemical or Molecular Recycling



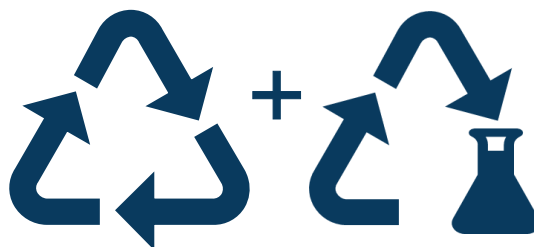




Collect More



Sort Better



Recycle More



We can solve this together.

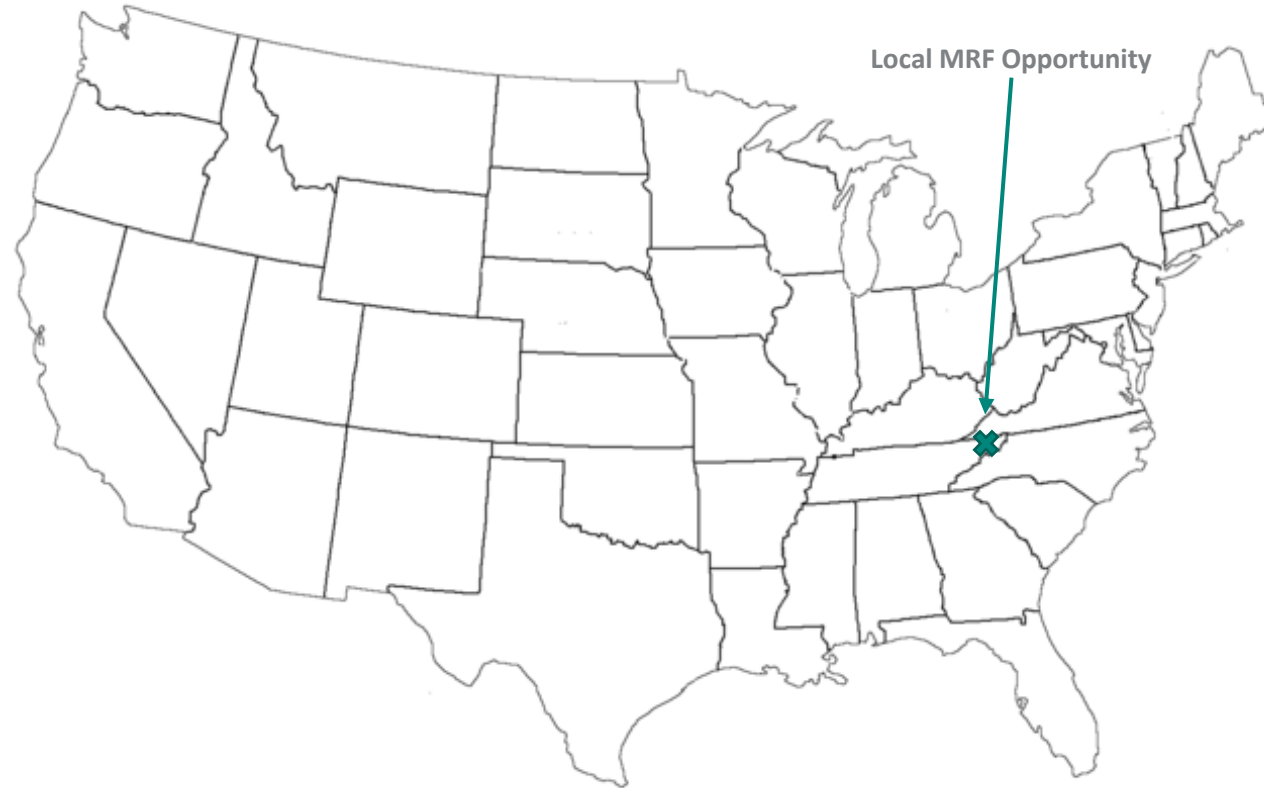
- **Take an active role** in solving the global plastic waste issue.
- Collectively advocate for **smart policies** that will drive **increased recycling** through a combination of **incentives, mandates and infrastructure investment**.
- **Encourage partnerships** with companies, nonprofits and local/state governments that have **smart, effective models for aggregating and collecting**

Regional need for improved recycling

Organizations within the Tri-Cities and outside the Tri-Cities recognize the need for a MRF in our area to help revitalize recycling and feed local industry.



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Something special is happening in Kingsport

The Business Journal
of Tri-Cities Tennessee / Virginia

| Outside the Box: Hagerty impressed with innovation on display in Kingsport



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Thank you!



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