

Eastman methanolysis

Keeping waste out of landfills through
material-to-material recycling



Only 9% of plastic waste is successfully recycled each year. Eastman is working to change that.

Through our methanolysis recycling process, we create value from hard-to-recycle plastic waste that can't be mechanically recycled and was bound for landfill or incineration.

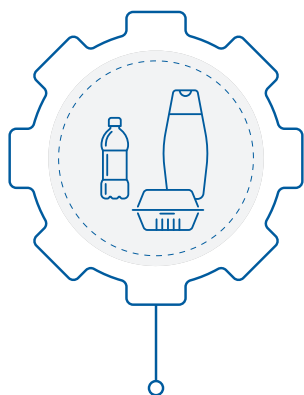
This includes items like colored and opaque containers, thermoforms for food storage, polyester textiles and bale strapping.

Eastman recycles this polyester by breaking it down into its molecular building blocks for new materials at a lower carbon footprint than heritage processes.



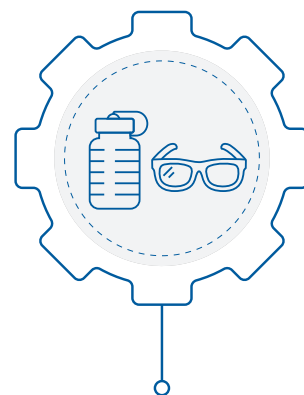
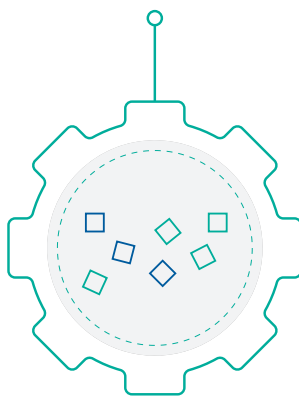
Key facts and figures

Each year, Eastman methanolysis will:



Recycle **~265 million pounds** of hard-to-recycle polyester waste

Produce **~242 million pounds** of polymer intermediates



Enable the production of **~330–440 million pounds** of Eastman Renew materials with certified recycled content*

What is the equivalent of ~265 million pounds of polyester waste?



12 billion
single-use water bottles



2.9 billion
shampoo bottles



860 million
polyester shirts

*Allocated via ISCC PLUS mass balance approach

We take plastic that previously could not be recycled, and we recycle it.



Eastman's innovative **material-to-material** methanolysis technology

Hard-to-recycle plastic waste

We break down hard-to-recycle plastic waste into its basic monomers. The process includes purification technologies, quality control and multiple check steps to test the material. The recycled monomers can be used to manufacture a broad range of products people rely on every day.

Virgin-quality performance

The materials we produce perform just like virgin materials while generating 20%–30% fewer greenhouse gas emissions than fossil-based production.

Methanolysis and mechanical recycling

These complementary solutions work together to advance a truly circular economy. Mechanical recycling is an important first choice where it is practical and effective, while methanolysis transforms hard-to-mechanically-recycle materials into virgin-quality products.

Eastman Renew materials are in products we use every day.

- Durable products (reusable water bottles, food-storage containers, small appliances)
- Medical device packaging
- Recyclable cosmetics and skin care packaging
- Eyeglass and sunglass frames and lenses
- Food and beverage, personal care and OTC packaging



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EASTMAN

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