## Chemical recycling, a big step toward a smaller footprint

Tennessee Underground Storage Tanks
\& Solid Waste Disposal Control
April 5, 2023

## A materials innovation company

- Celebrating more than $\mathbf{1 0 0}$ years of vital innovations that enhance people's lives every day.
- A Fortune 500 company with approximately $\mathbf{1 4 , 5 0 0}$ employees and approximately $\mathbf{1 0 . 5}$ billion USD in revenue (2021)
- 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




## US. PLASTICS PACT

 PARTNER AFARD THE YEAR

$\underset{\substack{\text { fatse } \\ 2017}}{\substack{\text { 2nd }}}$


Eastman.com/circular

## Three simultaneous global crises need solutions



## Opportunities going to waste

## 300 million metric tons

of plastics are produced globally
 -

 --

 - 9 --

## 260 million metric tons

of plastics are disposed


## Plastics are essential ... <br> but the waste issue must be solved



Plastics help to deliver hydration to those who need it

Advanced packaging technologies preserve fruits, vegetables, \& meats


REDUCE


REUSE


RECYCLE

Chemical companies make materials/plastics used to make stuff These materials/plastics are made mostly from carbon ${ }^{\circ} \mathbf{C}$


## Chemical companies make materials/plastics used to make stuff


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


## MECHANICAL RECYLING + CHEMICAL RECYCLING

## COMPLEMENTING EACH OTHER TO KEEP PLASTIC OUT OF LANDFILLS \& REDUCE FOSSIL RESOURCES



Chemical recycling replaces virgin PET and complements mechanical recycling

## Vision for a sustainable future...

Transforming our product portfolio to participate in the circular economy via two loops



Polyester renewal technology


20-30\% less GHG emissions*

20-3

## EASTMAN'S MOLECULAR RECYCLING TECHNOLOGIES



## Eastman Advanced

Circular Recycling Technologies:
carbon renewal \& polyester renewal will process over


millionpounds of waste annually by 2025 and 500 million pounds by 2030

## Will $250,000,000$ pounds of plastic waste fill Neyland Stadium, and if so, how many times?



## What does $\mathbf{2 5 0 , 0 0 0 , 0 0 0}$ pounds of waste plastic look like?





250,000,000 pounds of plastic waste would fill the famous Neyland Stadium in Knoxville, TN over 2x!

We will be processing this volume of plastic waste each year starting in 2023.

## Beyond Tennessee



## Progress in Tennessee

Turning Renderings to Reality


On track for 2023 start-up!

