



Exxtend™ technology for advanced recycling

# Recreated to create



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# Plastics can play a key role, making modern life possible

Even under the IEA Net Zero Emissions by 2050 scenario, global demand for primary chemicals is projected to be 20% higher than 2022.<sup>1</sup>

Plastics help to enable performance and reduce potential environmental impacts across industries, from reducing vehicle weight and medical applications to food packaging (e.g. helping to extend shelf life) and films used to construct greenhouses

**Better fuel economy<sup>2</sup>  
enables lower GHG per mile**



**7%**

fuel economy improvement possible with a 10% reduction in vehicle weight<sup>2</sup>

**Lower lifecycle GHG<sup>3,4</sup> than the alternatives / Less solid waste<sup>5,6</sup>**



**1/3**

of all food produced in the world is being wasted and not eaten by end consumers<sup>6</sup>



**8-10%**

of global greenhouse gas emissions are associated with food that is not consumed<sup>6</sup>

**Less water use<sup>5</sup>**



<sup>1</sup> 2023 IEA report "Net Zero Roadmap: A global pathway to keep the 1.5°C Goal in Reach."

<sup>2</sup> According to the Department of Energy's Office of Energy Efficiency & Renewable Energy.

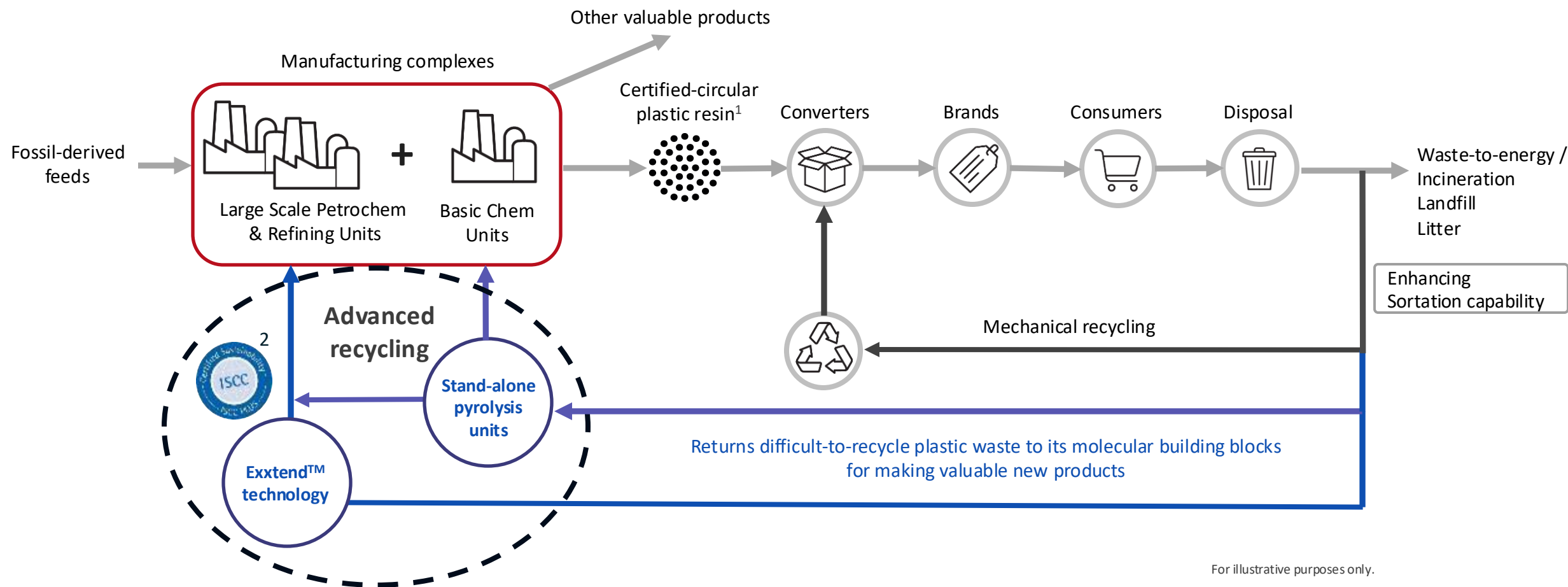
<sup>3</sup> Per April 2018 report of Franklin Associates; U.S. packaging market; Max Decomp.; Figure 4-1; Impacts as defined in Chapter 4.7: Global Warming Potential (GWP) results, and indexed to the alternatives as a group (including steel; aluminum; glass; paper-based packaging; fiber-based textiles; and wood).

<sup>4</sup> McKinsey & Co, Climate Impact of plastics, 13 of 14 applications analyzed has lower GHG impact than the next best non-plastic alternative, US based in 2020

<sup>5</sup> Per April 2018 report of Franklin Associates as in reference 3

<sup>6</sup> According to the United Nations Environment Programme (UNEP) Food Waste Index Report, released in March 2021.

# Exxtend™ technology aims to accelerate progress towards a more circular economy

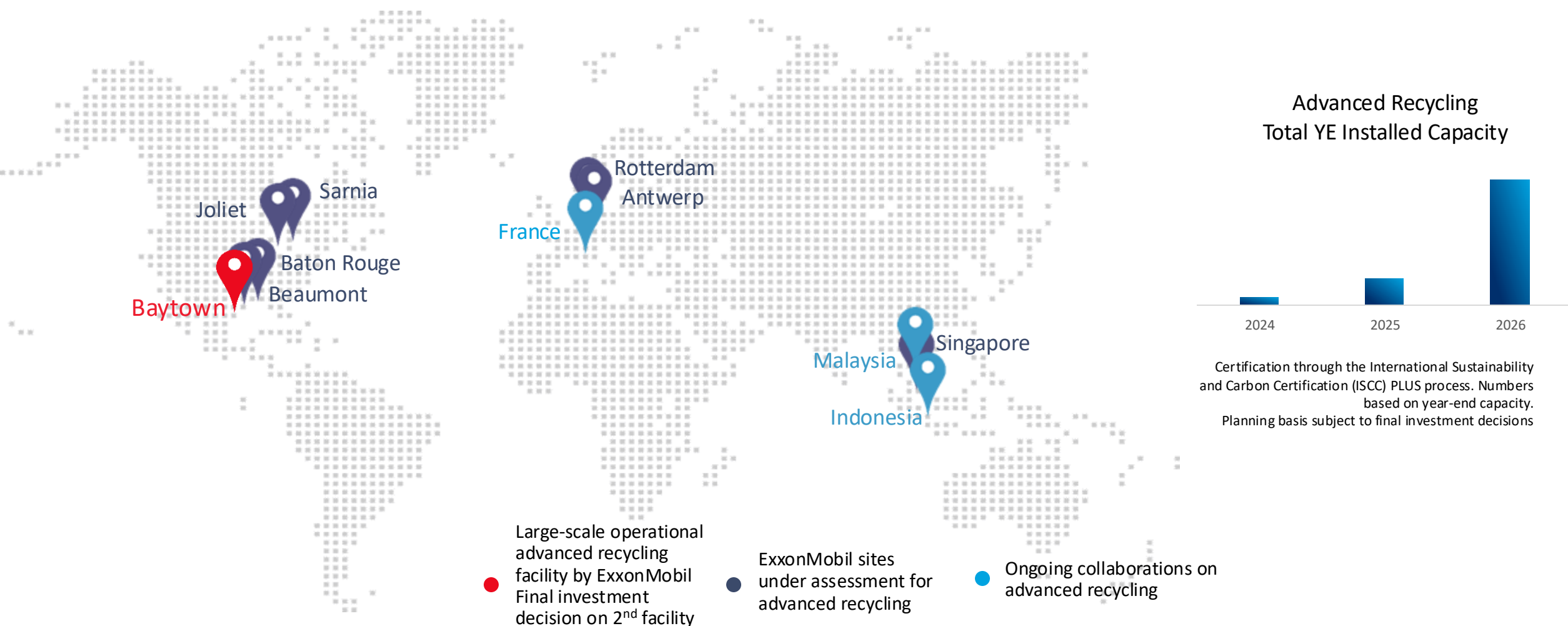


<sup>1</sup> Certified-circular plastics are virgin quality plastics that are accompanied by an ISCC PLUS "Sustainability Declaration" that matches the mass of virgin quality plastics that we sell to a corresponding amount of plastic waste that we transformed back into usable raw materials through advanced recycling.

<sup>2</sup> ISCC PLUS mass balance approach using the "determined by mass" option with "certified free attribution" applied. Does not represent GHG emissions or recycled content.

# Scaling technology started up in Baytown, Texas

Ambitions for 500 kTa (~1B lbs) advanced recycling capacity by 2027, leveraging large integrated sites





# Exxtend™ technology for advanced recycling

Operational in Baytown, Texas since YE22

- Widens the range of plastic waste that can be recycled
- Leverages ISCC PLUS mass balance attribution\* to attribute usable raw materials made from plastic waste to the virgin quality, certified-circular plastics\*\* we sell
- Aims to help meet customer and consumer goals for plastic circularity
- Utilizes existing facilities to scale up quickly

*\*ISCC PLUS mass balance approach using the “determined by mass” option with “certified free attribution” applied. Does not represent GHG emissions or recycled content.*

*\*\*Certified-circular plastics are virgin quality plastics that are accompanied by an ISCC PLUS “Sustainability Declaration” that matches the mass of virgin quality plastics that we sell to a corresponding amount of plastic waste that we transformed back into usable raw materials through advanced recycling.*



# Widening the range of plastic waste that is recycled

Plastic bags



Diaper material



Packaging materials



And many more plastics  
as we continue to broaden  
our feed specification....

As of mid-2024<sup>1</sup>, we have processed  
over 60 million pounds of plastic waste  
through our Exxtend™ technology, avoiding  
other end of life disposition  
(e.g. landfill or incineration)

<sup>1</sup>ISCC PLUS feedstock supplier self-declaration or sustainability declaration



Turf



Lubricant bottles



Medical waste



# Stay connected to learn more

See our technology in action



Read more about mass balance

