ExonMobil

Supporting a Circular Economy

ADVANCING CLIMATE SOLUTIONS: THE "AND" EQUATION

"For too long the conventional wisdom about ExxonMobil was that we had to make a choice between meeting the world's energy needs or playing a leading role in the energy transition. That view has always been flawed.

The fact is, it is an 'and' equation, one in which we can produce the products societies need AND lead the world in reducing greenhouse gas emissions, our own, and others'. "

Source: Letter from the Chairman, December 2022

THE OPPORTUNITY AHEAD

1. GREENHOUSE EMISSION REDUCTION ROADMAPS

Opportunities to reduce GHG emissions from existing facilities

2. LOW CARBON SOLUTIONS

Investment across LA to reduce emissions using carbon capture, hydrogen power and biofuels

3. INVESTING IN NEW PRODUCTS TO SUPPORT CONSUMER SUSTAINABILITY

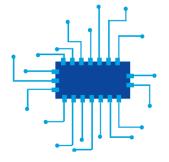
Potential new investment supports circularity, sustainability, changing energy needs and global market demands.



E‰onMobil

\$250M INNOVATION SUITE

ADVANCED RECYCLING **ADDRESS** PLASTIC WASTE



ULTRA-PURE ISOPROPYL ALCOHOL



SUPPLY DOMESTIC MICROCHIP PRODUCTION SUPPORT DOMESTIC ENERGY PRODUCTION

NEW

RESIN UNIT

Plastics can play a key role, making modern life possible

- Plastics demand expected to grow at or faster than GDP through 2050¹
- Plastics help to enable performance and sustainability benefits across industries, from reducing vehicle weight and medical applications to food packaging (e.g. helping to extend shelf life) and greenhouse films

Better fuel economy² enables lower GHG per mile Lower lifecycle GHG^{3,4} than the alternatives / Less solid waste^{5,6}

Less water use⁵





fuel economy improvement possible with a 10% reduction in vehicle weight² 1/3 of all food produced in the world is being wasted and not eaten by end consumers⁶ 8-10%

of global greenhouse gas emissions are associated with food that is not consumed⁶

¹EM 2022 internal analysis

 $^2\mbox{According}$ to the Department of Energy's Office of Energy Efficiency & Renewable Energy.

³Per 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). ⁴McKinsey & 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 ⁵Per April 2018 report of Franklin Associates as in reference 3 ⁶According to the United Nations Environment Programme (UNEP) Food Waste Index Report, released in March 2021.

The global waste management challenge

- ~3 billion people worldwide are estimated to lack access to controlled waste disposal facilities¹
- ~12 percent of the global municipal solid waste stream is plastic²
- Right now, less than 10% of plastic waste is recycled³
- Solutions will require innovation and global collaboration among the plastics value chain, governments, NGOs, and consumers

¹ United Nations - https://unhabitat.org/news/10-feb-2020/un-habitat-partners-with-wwf-to-tackle-global-challenge-of-waste-management-in

² World Bank, What a waste 2.0

³ Source: (National Overview: Facts & Figures on Materials, Wastes and Recycling) EPA.com





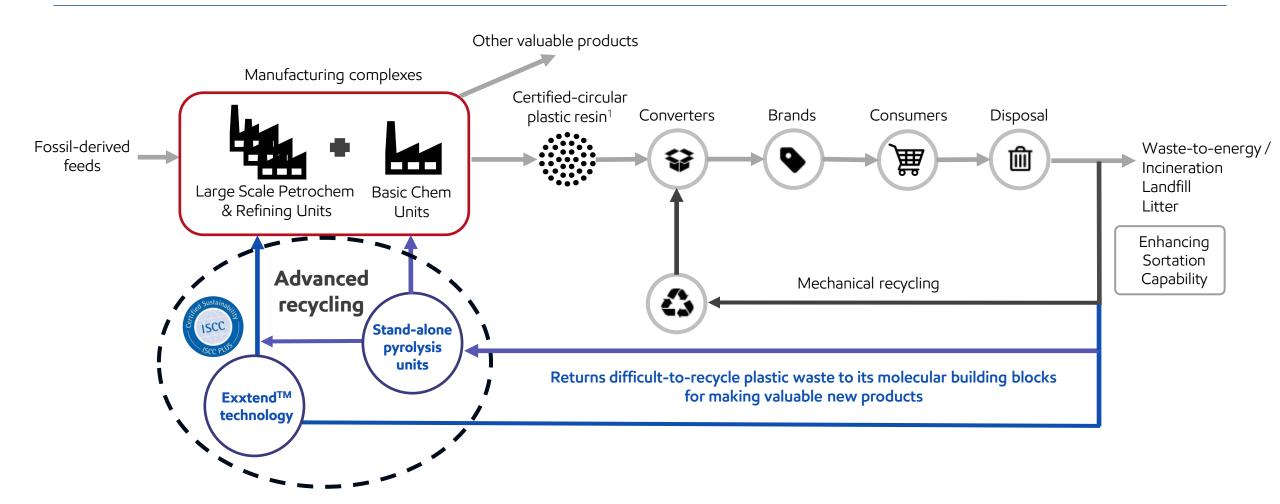
ExxtendTM technology for advanced recycling

Now operational in Baytown, Texas

- ✓ Leverages existing facilities to scale up quickly
- \checkmark Widens the range of plastic waste that can be recycled
- ✓ Delivers plastics with identical performance and quality to those made purely from fossil-based feedstocks
- \checkmark Helps meet customer and consumer goals for circularity

Advanced recycling can process a broader mix of plastic waste

Necessary complement to mechanical recycling



¹Attributed via ISCC PLUS mass balance approach using ISCC PLUS v3.3. **Does not represent GHG emissions or recycled content. ISCC PLUS v3.3** For illustrative purposes only.

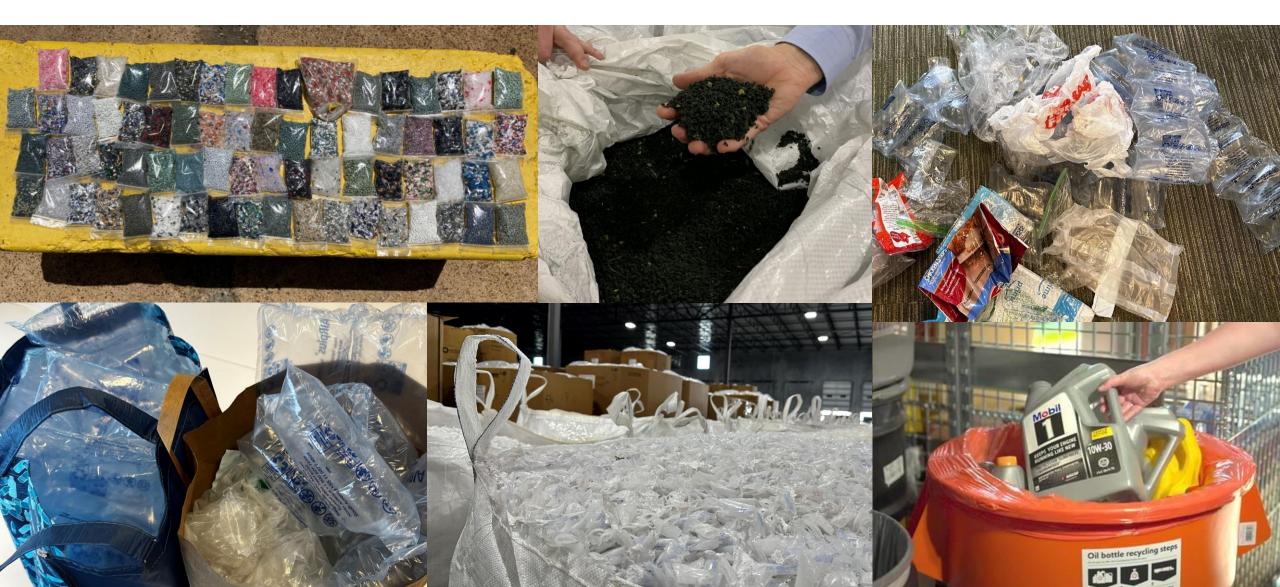


Scaling technology started up in Baytown, Texas

Plans for 500 kTa (~1B lbs) advanced recycling capacity by YE26, leveraging large integrated sites

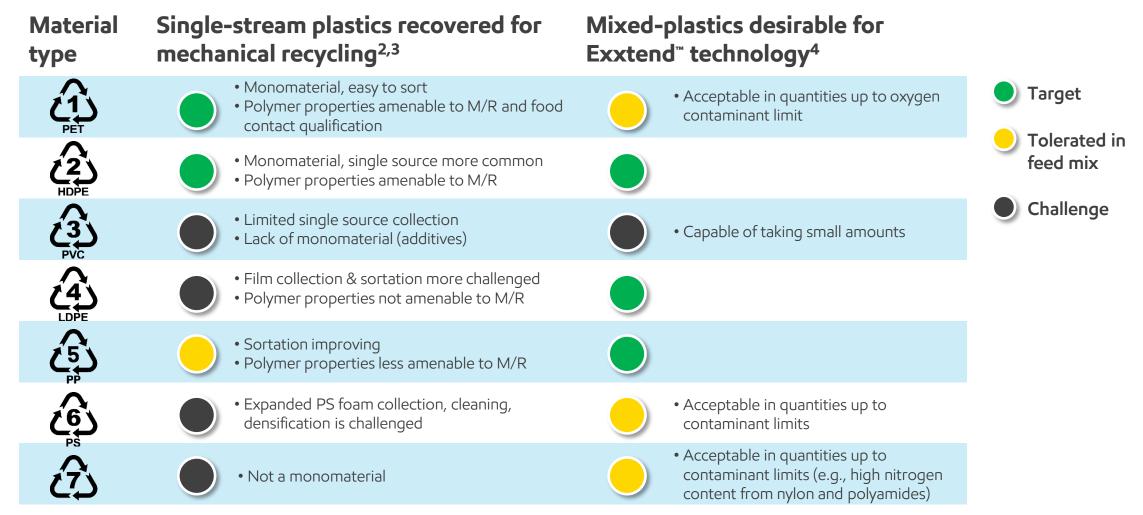


Examples of plastic waste being processed in Baytown Processing hard-to-recycle plastic waste that might otherwise end up in landfill or incineration



Widening the range of plastic materials society can recycle¹

Mechanical and advanced recycling complementary



¹In communities with programs and facilities in place that collect and recycle the resulting product. ²Plastics Recyclers Europe: <u>PET Market in Europe: State of Play – Production, Collection and Recycling Data</u> 2018 ³Prepared for ACC by <u>More Recycling</u>, US PCR 2020 ⁴ExxonMobil data

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Collaborations to collect and sort



Our approach to scale: collaboration and technology



