ExxonMobil

Collaborating with the Value Chain to Drive Innovation in support of Plastics Circularity

ORIGINALLY DELIVERED AT THE **FESTIVAL OF POLYMER INNOVATION 2024**
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Festival of Polymer Innovation

Collaborating with the Value Chain to Drive Innovation in support of Plastics Circularity

FX Sinéchal

ExxonMobil

Packaging solutions that offer sustainability benefits

Do more with less

Design for recyclability*

Increase recycled content

Advanced recycling

*Recyclable in communities with programs and facilities in place that collect and recycle plastic films

Design for recyclability* - frozen food bags

GROUPE BONDUELLE
La nature, notre futur

Constantia Flexibles

ExxonMobil

Challenge

Address market demand for recyclable* PE-based freezer film that can replace more difficult-to-recycle composite laminates while maintaining performance, especially for "challenging-to-pack" vegetables such as spinach or broccoli.

Solution

Combine ExxonMobil **Exceed ™ S performance PE polymers** to replace PP/mPET/PE solution which can **increase package recyclability*** while **downgauging** the solution by up to **25%** to reduce overall packaging consumption**.

* Recyclable in communities with programs and facilities in place that collect and recycle plastic film

** Bonduelle estimates it reduced up to 25% in plastic consumption for its frozen natural range in France (between October 2020 and January 2023).

Incorporation of recycled content – industrial packaging

Selene Bischof+Klein ExxonMobil

Challenge

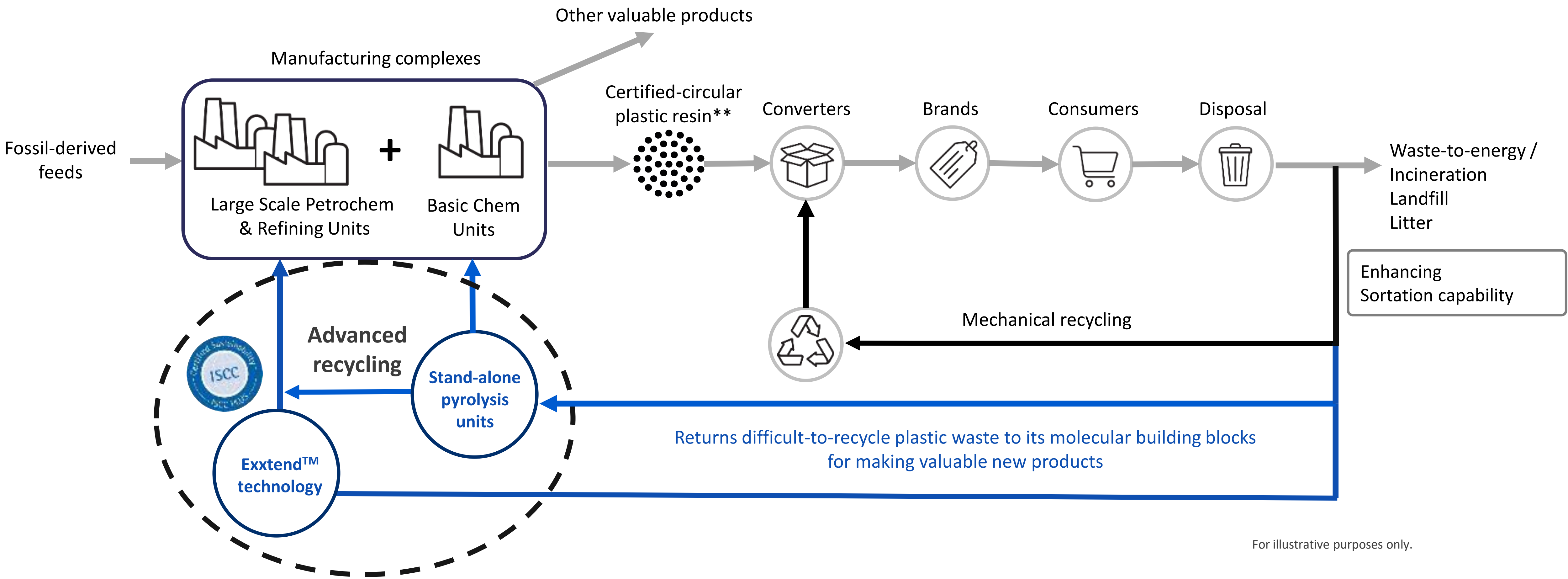
ExxonMobil wanted to help support a plastics circular economy with its own packaging material. Efforts included bagging some of its resins in heavy duty sacks (HDS) and palletizing them with stretch hood films that both incorporated recycled PE content while still maintaining their performance.

Solution

Packaging performance properties and the original thickness of the HDS and stretch hood are maintained, thanks to the addition of **Exceed™ XP performance PE polymers**, which can help to compensate for any physical property degradation due to the incorporation of recycled content.

The ExxonMobil Meerhout Polymers Plant in Belgium is delivering some of its PE resins to customers in HDS that incorporate 50% recycled PE content and which is secured on pallets with stretch hoods that incorporate 30% recycled PE content.

Exxtend™ technology for Advanced Recycling



*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 certified-circular plastics that we sell to a corresponding amount of plastic waste that we transformed back into usable raw materials through advanced recycling

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

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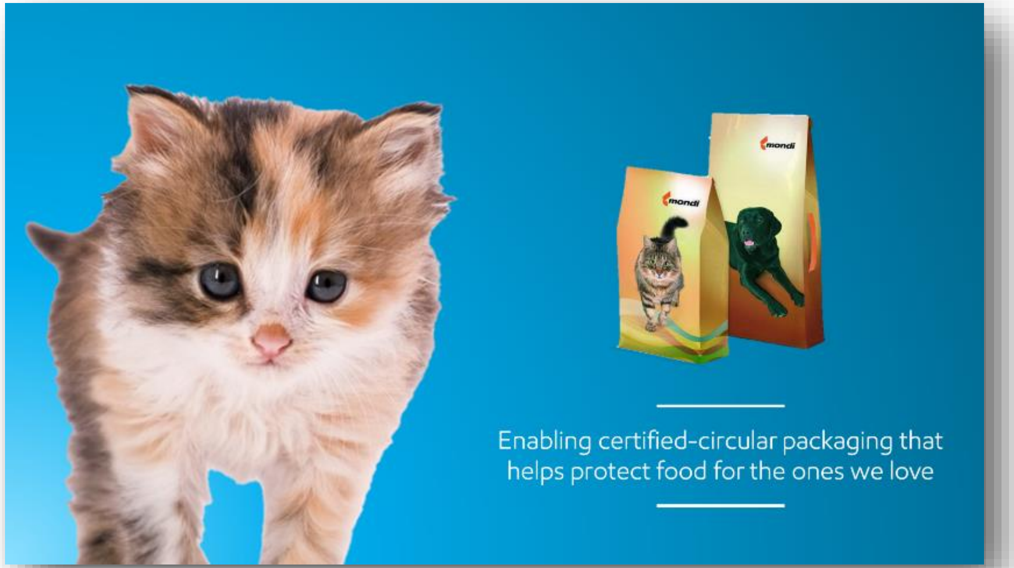
Scaling technology started up in Baytown, Texas

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

- Large-scale advanced recycling facility by ExxonMobil
- ExxonMobil sites under assessment for advanced recycling
- Ongoing collaborations on advanced recycling

ExxonMobil

Advanced recycling



mondi ExxonMobil

Challenge

Address market demand for more circular packaging solutions in contact-sensitive applications such as pet food packaging with critical organoleptic and food safety performance requirements while maintaining packaging integrity.

Solution

Break down difficult to recycle plastic waste via **Exxtend™ technology for Advanced Recycling** into feedstocks that can be mass balance attributed* to certified-circular polymers** and used to create new food-grade packaging with organoleptics the same as with virgin resin.

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For more information on mass balance attribution please see: Mass balance attribution | ExxonMobil Product Solutions (exxonmobilchemical.com)

Developing and deploying innovative solutions

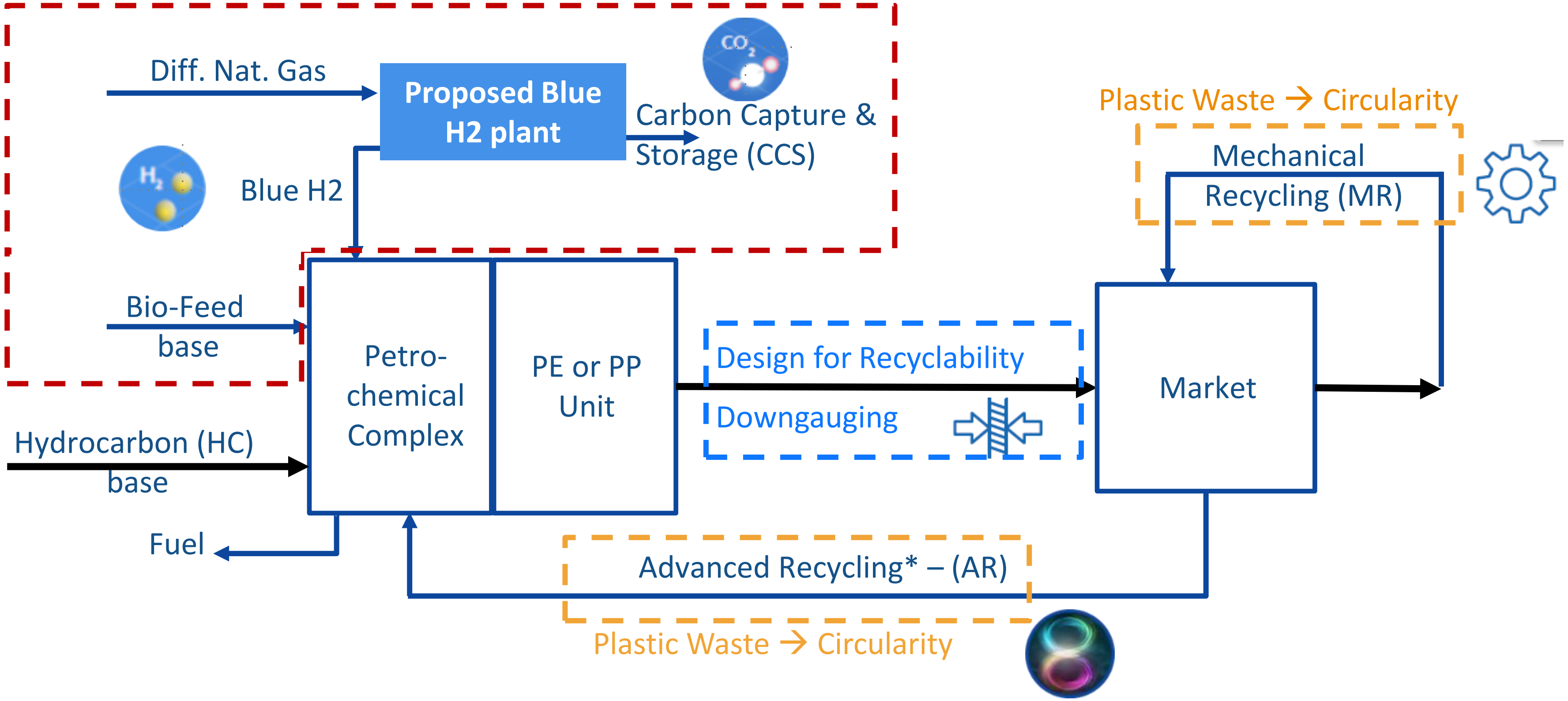
Topics

Design for recycling

Circularity

CO_2 Emissions (considerations)

Illustrative view



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Changing the narrative on plastics

FROM	TO
Playing defense	Playing offense
A dated narrative based on an emotional response to critics' attacks and extreme negative media coverage	A fact-based narrative backed by data and informed by research
Conflicting messages told in a vacuum	A unified voice amplified across mediums
Narrow group of validators	A broad base of stakeholders to convey the narrative

Thank you

exxonmobilchemical.com/PE

Interested in learning more?

Please ask us for additional details and information!

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Similarly, emission-reduction roadmaps to drive toward net zero and similar roadmaps for emerging technologies and markets, and water management roadmaps to reduce freshwater intake and/or manage disposal, are forward-looking statements. These statements are not guarantees of future corporate, market or industry performance or outcomes for society and are subject to numerous risks and uncertainties, many of which are beyond our control or are even unknown. Actual future results, including the achievement of ambitions to reach Scope 1 and 2 net zero from operated assets by 2050, to reach Scope 1 and 2 net zero in Upstream Permian Basin unconventional operated assets by 2030, to eliminate routine flaring in-line with World Bank Zero Routine Flaring, to reach near zero methane emissions from operated assets and other methane initiatives, to meet greenhouse gas emission reduction plans or goals, divestment and start-up plans, and associated project plans; technology advances including in the timing and outcome of projects to capture and store CO2 supply lower-emission fuels, produce hydrogen, produce lithium, obtain data on detection, measurement and quantification of emissions including reporting of that data or updates to previous estimates, and use plastic waste as feedstock for advanced recycling; progress in sustainability focus areas; and reserve or resource changes could vary depending on changes in supply and demand and other market factors affecting future prices of oil, gas, petrochemical or new market products and services; future cash flows; our ability to execute operational objectives on a timely and successful basis; policy and consumer support for emission-reduction and other advanced products and technology; changes in international treaties, laws, regulations and incentives, including those greenhouse gas emissions, plastics, carbon storage and carbon costs; evolving reporting standards for these topics and evolving measurement standards for reported data; trade patterns and the development and enforcement of local, national and regional mandates; unforeseen technical or operational difficulties; the outcome of research efforts and future technology developments, including the ability to scale projects and technologies such as electrification of operations, advanced recycling, CCS, hydrogen production, or direct lithium extraction on a commercially competitive basis; availability of feedstocks for lower-emission fuels, hydrogen, or advanced recycling; changes in the relative energy mix across activities and geographies; the actions of competitors; changes in regional and global economic growth rates and consumer preferences; actions taken by governments and consumers resulting from a pandemic; changes in population growth, economic development or migration patterns; military build-ups, armed conflicts, or terrorism; and other factors discussed in this release and in Item 1A. “Risk Factors” in ExxonMobil’s Annual Report on Form 10-K for 2022 and subsequent Quarterly Reports on Forms 10-Q, as well as under the heading “Factors Affecting Future Results” on the Investors page of ExxonMobil’s website at www.exxonmobil.com. 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The reference case for planning beyond 2030 is based on the Company’s Global Outlook research and publication. The Global Outlook is reflective of the existing global policy environment and an assumption of increasing policy stringency and technology improvement to 2050. However, the Global Outlook does not attempt to project the degree of required future policy and technology advancement and deployment for the world, or ExxonMobil, to meet net zero by 2050. As future policies and technology advancements emerge, they will be incorporated into the Global Outlook, and the Company’s business plans will be updated as appropriate. References to projects or opportunities may not reflect investment decisions made by the corporation or its affiliates. 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The performance data presented in the Advancing Climate Solutions Report and Sustainability Report, including on emissions, is not financial data and is not GAAP data.

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