Paving the way to a circular future

We make circular and low carbon solutions work for your business

LyondellBasell

June 2025

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The statements in this presentation relating to matters that are not historical facts are forward-looking statements. These forward-looking statements are based upon assumptions of management of LyondellBasell which are believed to be reasonable at the time made and are subject to significant risks and uncertainties. When used in this release, the words "estimate," "believe," "continue," "could," "intend," "may," "plan," "potential," "predict," "should," "will," "expect," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain such identifying words. Actual results could differ materially based on factors including, but not limited to, market conditions, the business cyclicality of the chemical and polymers industries; the availability, cost and price volatility of raw materials and utilities, particularly the cost of oil, natural gas, and associated natural gas liquids; our ability to successfully implement initiatives identified pursuant to our Value Enhancement Program and generate anticipated earnings; competitive product and pricing pressures; labor conditions; our ability to attract and retain key personnel; operating interruptions (including leaks, explosions, fires, weather-related incidents, mechanical failure, unscheduled downtime, supplier disruptions, labor shortages, strikes, work stoppages or other labor difficulties, transportation interruptions, spills and releases and other environmental risks); the supply/demand balances for our and our joint ventures' products, and the related effects of industry production capacities and operating rates; our ability to manage costs; future financial and operating results; our ability to align our assets and grow and upgrade our core, including the results of our strategic review of certain European assets; our ability to reduce our fixed costs and increase cash flow; legal and environmental proceedings; tax rulings, consequences or proceedings; the impacts of tariffs and trade disruptions; technological developments, and our ability to develop new products and process technologies; our ability to meet our sustainability goals, including the ability to operate safely, increase production of recycled and renewable-based polymers to meet our targets and forecasts, and reduce our emissions and achieve net zero emissions by the time set in our goals; our ability to procure energy from renewable sources; our ability to build a profitable Circular & Low Carbon Solutions business; potential governmental regulatory actions; political unrest and terrorist acts; risks and uncertainties posed by international operations, including foreign currency fluctuations; and our ability to comply with debt covenants and to repay our debt. Additional factors that could cause results to differ materially from those described in the forward-looking statements can be found in the "Risk Factors" section of our Form 10-K for the year ended December 31, 2024, which can be found at www.LyondellBasell.com on the Investor Relations page and on the Securities and Exchange Commission's website at www.sec.gov. There is no assurance that any of the actions, events or results of the forward-looking statements will occur, or if any of them do, what impact they will have on our results of operations or financial condition. Forward-looking statements speak only as of the date they were made and are based on the estimates and opinions of management of LyondellBasell at the time the statements are made. LyondellBasell does not assume any obligation to update forward-looking statements should circumstances or management's estimates or opinions change, except as required by law.

This presentation contains time sensitive information that is accurate only as of the date hereof. Information contained in this presentation is unaudited and is subject to change.

We undertake no obligation to update the information presented herein except as required by law.

LYB – Sustainability Report 2024 Highlights

At a glance sustainability performance

0.127

Total Recordable Incident Rate (TRIR), representing industry-leading performance, marking our second-best year for TRIR

70

Manufacturing sites achieved GoalZERO[1]

100%

allocation of Green Bond funds to eligible projects

72

Manufacturing sites were injury-free

Laid the foundation for our first commercial-scale chemical recycling plant using our *MoReTec* technology

Produced and marketed more than

200,000

metric tons of recycled and renewable-based polymers[2]

Volumes of our recycled and renewable-based polymers have increased since 2023

65%

1,820 MW of renewable energy capacity secured under power purchase agreements, which will enable us to meet our goal to procure at least 50% of our electricity from renewable sources by 2030[3]

Safely completed the shutdown of refining operations at our Houston Refinery in the first quarter of 2025, marking our exit from the refining business, which will reduce our annual scope 3 emissions by

~40MMtCO_2e

1. We classify incidents on a scale from 0 to 5, with Level 5 having the highest impact. Our GoalZERO program relates to Level 2+ incidents, which generally means at minimum, an impact resulted in reporting or record keeping under an applicable regulatory program.
2. Production and marketing includes: (i) joint venture production marketed by LYB plus our pro rata share of the remaining production produced and marketed by the joint venture, and (ii) production via third-party tolling arrangements.
3. Based on 2020 procured levels.
4. Identified items include adjustments for lower of cost or market (LCM), gain on sale of business, asset write-downs in excess of $10 million in aggregate for the period and refinery exit costs.

At a glance financial performance

Net income

$1.4B

Net income excluding identified items[4]

$2.1B

EBITDA

$3.5B

EBITDA excluding identified items[4]

$4.3B

Diluted EPS

$4.15

Diluted EPS excluding identified items[4]

$6.40

Business-led sustainability

Circulen portfolio offers multiple pathways to achieve virgin plastic and PCF reduction goals

circulen recover By LyondellBasell

Recycled polymers using plastic waste converted through mechanical recycling

- Direct inclusion of post-consumer recycled content up to 100%
- The shortest path from plastic waste to recycled polymer
- PCF reduction compared to virgin polymers

circulen revive By LyondellBasell

Recycled polymers sourced from plastic waste converted through chemical recycling

- Chemical recycling complements mechanical recycling by diverting hard-to-recycle plastics from the waste stream
- Up to 100%* attributed circular content on an ISCC PLUS-certified mass balance basis
- Retains regulatory compliance of virgin resins

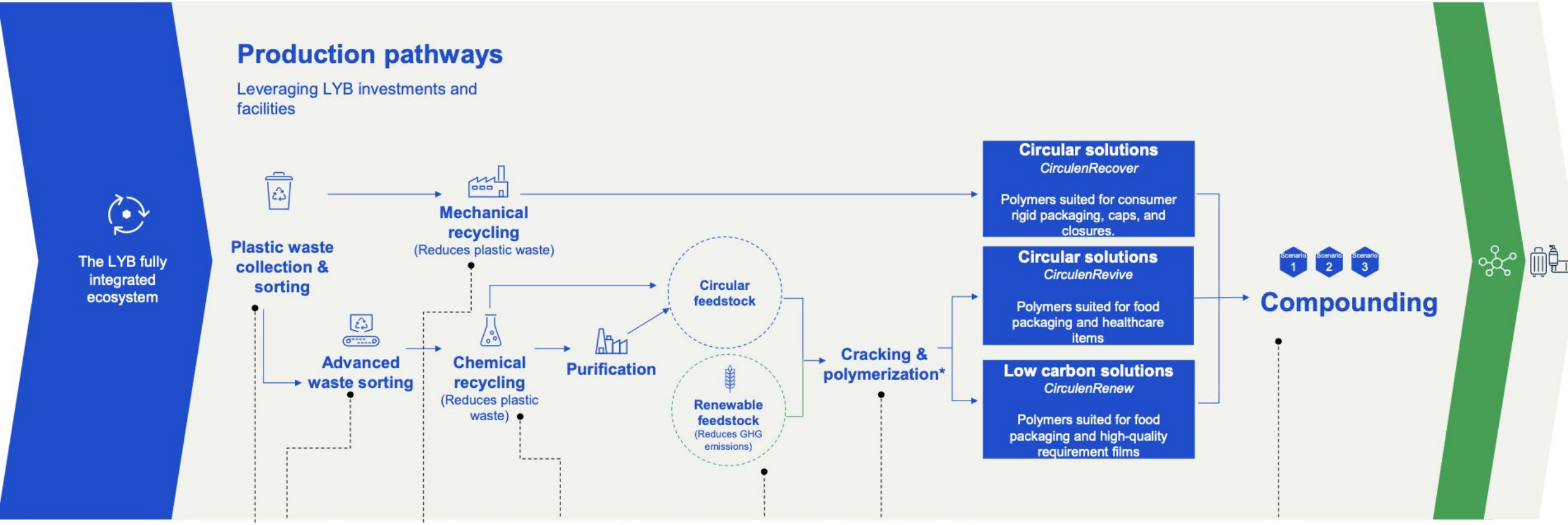
circulen renew By LyondellBasell

Polymers sourced from bio-circular feedstock

- Replacing fossil-based feedstocks with bio-circular feedstocks derived from bio-mass waste and residues
- Up to 100%* attributed bio-circular content on an ISCC PLUS-certified mass balance basis
- Retains regulatory compliance of virgin resins
- Substantially lower PCF compared to virgin polymers

*PP and PE grades can be attributed at up to 100%; Catalloy grades can be attributed up to 95%

The LYB integrated ecosystem is designed to bring global scale and continuous innovation



Joint Ventures:
Source One (EU)

Joint Ventures:
Source One Plastics (EU)
Cyclyx (US)

Joint Ventures:
Rodepa (EU) – Oct-23

Acquisitions:
LYB Merseburg Solvent-based (APK) – Feb-23

LYB Geleen & Blandain (QCP & Tivaco -EU) – Apr-23

Existing LYB channel:
Third-party pyrolysis oil offtakes (U.S., EU)

LYB assets and proprietary technology:
Semi-industrial pilot plant running in Ferrara (EU) – Feb-23

***MoReTec*-1 50 ktpa (EU) FID – 2024 start of Construction**

***MoReTec*-2 100 ktpa (US) started engineering (subject to final investment decision)**

Existing LYB channel:
Third-party renewable offtakes (U.S., EU)

LYB assets and proprietary technology:
LYB crackers (Cologne) and polymer sites (Houston)

LYB assets:
APS sites (EU)

LYB acquisition:
Mepol (EU) – Mar-23

*Mixed with traditional feedstocks; alternative feedstocks attributed to *Circulen*Revive and *Circulen*Renew using an ISCC Plus Certified mass balance approach.

MoReTec: a differential chemical recycling technology

Construction of the first commercial facility in Germany: 50kt single train

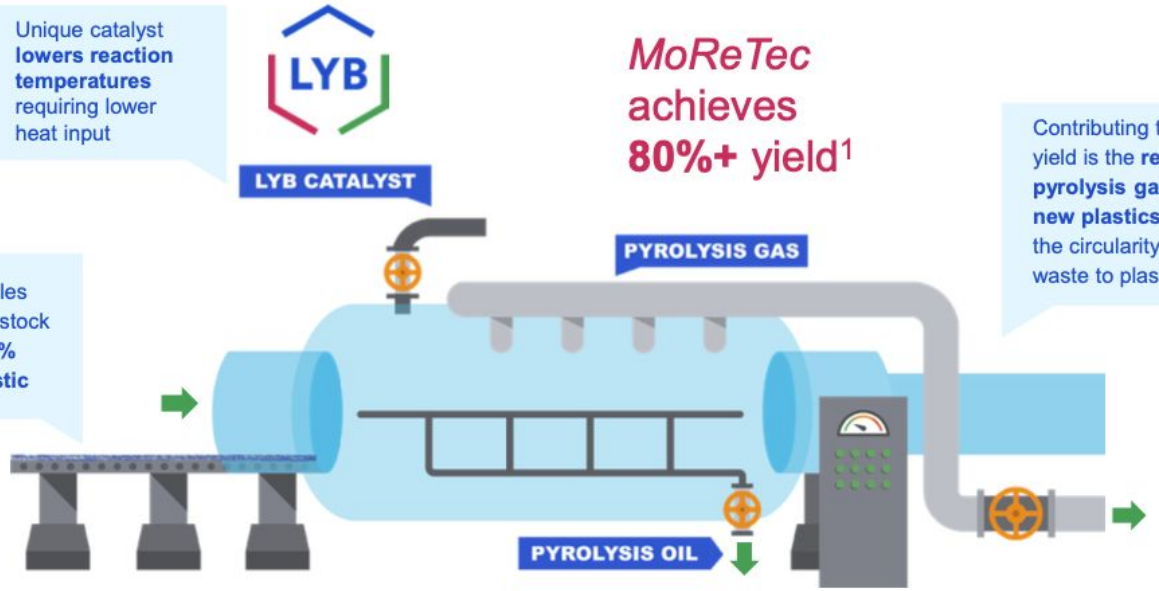
Post-consumer waste journey

Mechanical recycling recovers single polymer plastics

Chemical recycling complements mechanical methods by processing a broader range of plastics, including difficult-to-recycle multi-polymer types

MoReTec handles pre-sorted feedstock with at least **85% polyolefin plastic**

Unique catalyst **lowers reaction temperatures** requiring lower heat input



MoReTec achieves **80%+** yield[1]

Contributing to the high yield is the **recovery of pyrolysis gas to make new plastics**, maximizing the circularity of plastic waste to plastics.

MoReTec facility will process the plastic packaging waste equivalent generated by 1,2 million German citizens annually

Unique process design allows for electrical heating, enabling the process to be **powered by renewable energy.**

The *MoReTec* process is estimated to have at least a **50% lower carbon footprint** than the process for fossil-based feedstocks.[2]

MoReTec's **innovative design enables commercial scaling** and supports the LYB goal to produce and market at least **2 million metric tons/year of recycled and renewable-based polymers** by 2030.[3]

LYB is developing post-treatment solutions to enable higher volumes of chemical recycled feedstock to be processed into plastics via steam crackers

1. Yield depending on the quality of the waste plastic feedstock. We define yield as the percentage by weight of the waste plastic fed to the process that is converted into liquid and gaseous products (pyrolysis oil and pyrolysis gas) that can be used as feedstock to produce new polyolefins.
2. Feedstocks produced via the MoReTec process (pyrolysis oil and gas) displace fossil-based feedstocks in the olefins cracking process; the stated carbon footprint reduction is based on a comparison of Life Cycle Assessment (LCA) results for (1) pyrolysis oil and gas produced by the MoReTec technology, and (2) fossil-based naphtha feedstock. LCA for pyrolysis oil and gas based on MoReTec pilot plant data. LCA for fossil-based naphtha includes carbon emissions associated with the production of fossil-based naphtha feedstock, plus incineration of the equivalent amount of mixed plastic waste required to produce pyrolisis oil and gas via the MoReTec process.
3. Production and marketing includes: (i) joint venture production marketed by LYB plus our pro rata share of the remaining production produced and marketed by the joint venture, and (ii) production via third-party tolling arrangements.

Solutions for a better tomorrow

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Alterra
Solving Plastic Pollution
June 4, 2025

Alterra – Our Story

Our purpose is why we are here – it's our North Star. Everything we do is to create a cleaner planet for today and tomorrow. Our mission is to globalize a circularity process technology that creates value for discarded plastic, thus solving plastic pollution.

B & C Grade Film

MRF Residue

Multi-layer Flexibles

Mixed Rigids

Inficycle™
(in-fə-sī-kəl) *verb*

Collecting, sorting, and breaking down hard-to-recycle plastics at their molecular level so they can be remanufactured infinitely.

Scan Here

For Facts On How Recycling Works In The U.S.

The Simple Q&A Format Will Help Make You An Expert On All Things Plastics Recycling.

Topics

- **Recycling Rates**
- **Can Plastic Be Recycled?**
- **Pyrolysis**
- **Advanced Recycling**
- **Mass Balance**
- **And More**

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