From vision to value

Sustainability overview for investors

April 2025

Cautionary statement

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 LYB, which are believed to be reasonable at the time made and are subject to significant risks and uncertainties. When used in this presentation, 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, polymers and refining 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; benefits and synergies of any proposed transactions; receipt of required regulatory approvals and the satisfaction of closing conditions for our proposed transactions; final investment decision and the construction and operation of any proposed facilities described; our ability to align our assets and expand our core; legal and environmental proceedings; tax rulings, consequences or proceedings; 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 and Low Carbon Solutions business; the continued operation of and successful shutdown and closure of the Houston Refinery, including within the expected time frame; 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.lyb.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 LYB at the time the statements are made.

LYB 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 release is unaudited and is subject to change. We undertake no obligation to update the information presented herein, except as required by law. Our reported emissions and expected reductions are based on a combination of measured and estimated data and are based on industry standards and best practices, including the Greenhouse Gas Protocol and guidance from the American Petroleum Institute. Emissions reported are estimates only, and data is subject to change as methods, data quality, and technology improvements occur. Our goals to reduce emissions are good-faith efforts based on current relevant data and methodology, which could be changed or refined as we evolve our approach to identifying, measuring, and addressing emissions.

See APPENDIX for a discussion of the Company’s use of non-GAAP financial measures.

Our sustainability value case – The summary

Who we are

LyondellBasell (LYB) is one of the world's largest producers of plastics and chemicals; our products are used by millions of people around the world every day. Through our scale and reach, we have a unique role to play in helping industries reach sustainability goals and accelerate towards a low-carbon and circular economy.

#1

producer of polyethylene (PE) and polypropylene (PP) in Europe

#1

producer of oxyfuels worldwide

#2

producer of propylene oxide (PO) worldwide

203 kilotons (kt)

of **recycled and renewable-based polymers** produced and marketed in 2024[1]

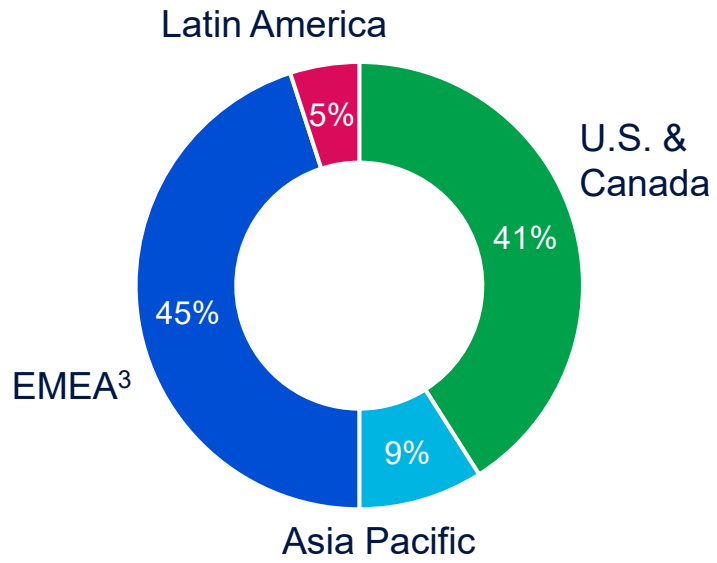
Achieved

our 2030 target to secure at **least 50% of our global electricity from renewable sources**[4] in September 2024

$500 million

inaugural **Green Bond** offering in May 2023

~20,000 employees[2]



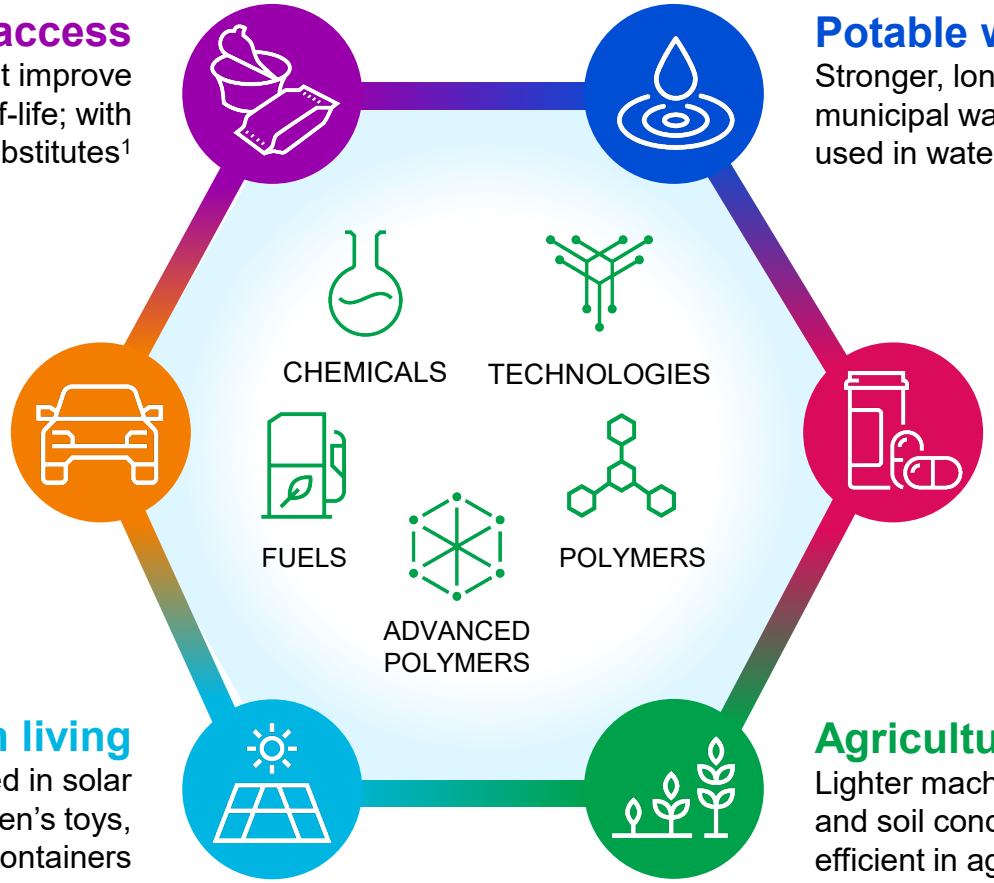
1. Production and marketing includes (i) joint venture production marketed by LYB plus our pro rata share of the remaining production produced and marketed by the joint venture, and (ii) production via third-party tolling arrangements.
2. Full-time and part-time employees as of December 31, 2024.
3. Europe, Middle East and Africa. 4. Based on 2020 procured levels.

We provide sustainable solutions for everyday living

Our core products are key to advancing a modern and more sustainable world

Food safety & access
Food packaging and films that improve freshness, portability and extend shelf-life; with lower environmental impacts than substitutes[1]

Potable water delivery
Stronger, longer-lasting pipes used in municipal water systems and key elements used in water filtration systems



Cleaner air & fuel efficiency
Stronger, lighter plastics support increased fuel efficiency

Quality healthcare
Essential medical supplies such as surgical face masks, hand sanitizers, biohazard containers and pharmaceutical packaging

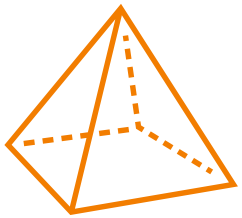
Sustainable & modern living
Materials that form components used in solar panels, wind turbines, children's toys, cosmetics, leak- and shatter-proof containers

Agricultural efficiency
Lighter machinery, crop protection and soil conditioning used to be more efficient in agro-processing

1. Total energy demand, expended energy, water consumption and solid waste by weight and volume for US and Canadian plastic packaging systems and substitutes (tinplate, aluminum, glass, paper, cork, rubber, textile and wood). Source: Analysis prepared by ERG for the American Chemistry Council.

Advancing our corporate strategy

Value creation and sustainability are central to our three-pillar strategy

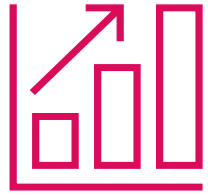


Grow and upgrade the core

Shaping our portfolio to leverage strengths, support growth, increase resiliency and drive higher returns

Build a profitable Circular and Low Carbon Solutions business

Building a leading CLCS business at scale to meet current and growing future demand for sustainable solutions



Step up performance and culture

Unlocking significant opportunities across our portfolio through continuous value creation

Establishing LYB as a sustainability leader

We focus on actions where we can positively influence and create differential value

Ending plastic waste

Innovating, scaling and delivering solutions to turn post-use plastics into everyday products and enable a circular economy

2 MMt+ / year
Recycled and renewable-based polymers by 2030[1]

$1B
Expected CLCS incremental EBITDA per year by 2030[2]

Zero
Plastic pellet loss to the environment from LYB operations

Taking climate action

Ensuring sustainable sources of carbon for our products and reducing our environmental impact

42%
Reduction in Scope 1 & 2 emissions by 2030 vs a 2020 baseline

30%
Reduction in Scope 3 emissions by 2030 vs a 2020 baseline

Net Zero
Scope 1 & 2 emissions by 2050

Complete
Water and biodiversity assessments

50%+
Of electricity from renewable sources by 2030[3]

Eliminate
Intentionally added PFAS from our products[4]

Supporting a thriving society

Creating a culture where employees are inspired to innovate and deliver business results

GoalZero
No incidents, injuries or accidents

80%
Suppliers assessed using sustainability criteria by 2027

At least 33%
Female senior leaders and at least 33% male senior leaders globally by 2032[5]

1. Million metric tons. 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.
2. Circular and Low Carbon Solutions (CLCS) EBITDA is incremental to fossil fuel-based O&P Americas and O&P EAI annual EBITDA.
3. Compared to 2020 procured levels.
4. As viable alternatives are established for safety sensitive applications and customers accept reformulated products, our desire is to eliminate intentionally added PFAS from our product offering while maintaining the highest standards of quality and performance.
5. We take into consideration Dutch laws with respect to gender ambitions (both male and female) for senior management, including requirements to set appropriate and ambitious gender diversity targets.

Sustainability is aligned with our corporate strategy

Our **three-pillar corporate strategy** and our **sustainability pillars** are in lockstep

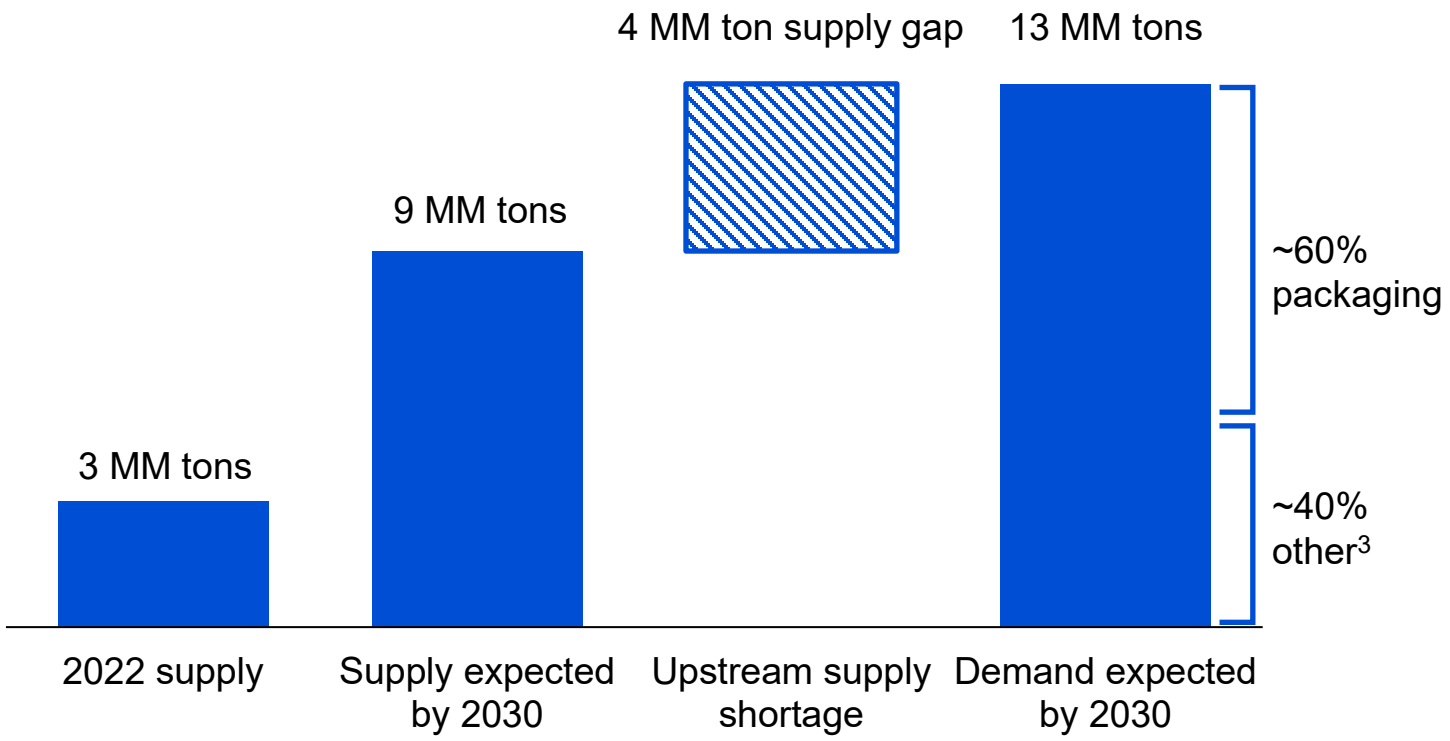
Examples	Corporate strategy	Sustainability pillars
Driving the circular economy and achieving **$1B in CLCS incremental EBITDA**[1] by 2030	Build a profitable CLCS business	Ending plastic waste
Ceased refining operations and creating **new commercial opportunities** on the former refinery site (e.g. re-use of hydrotreaters to treat pyrolysis oil[2]), while **reducing GHG emissions**	Grow and upgrade the core	Taking climate action
Producing low carbon products resulting in a **lower carbon footprint**	Grow and upgrade the core	Taking climate action
Lowering Brand Owners' Scope 3 emissions through our *Circulen* brands, many of which have a lower carbon footprint	Build a profitable CLCS business	Taking climate action
Unlocking profitability and **increasing our energy efficiency** through our Value Enhancement Program	Step up performance and culture	Taking climate action
Improving safety to protect our employees and communities	Step up performance and culture	Supporting a thriving society

1. Circular and Low Carbon Solutions (CLCS) EBITDA is incremental to fossil fuel-based O&P Americas and O&P EAI annual EBITDA.
2. Potential project subject to FID ~2026.

Circular plastics market is structurally attractive

Upstream infrastructure gap is creating a significant supply shortage[1]

Market assessment for circular plastics[1,2]



- Consumer preferences driving robust demand growth for CLCS products
- European regulatory developments, such as PPWR, bolstering demand for recycled content in packaging
- Infrastructure build-out for gathering, sorting and processing plastic waste lagging demand growth for recycled polymers
- Brand owners' scaling back plans for usage of recycled content due to slower growth in supply
- Persistent shortage of supply is expected to sustain healthy margins for circular and renewable products

1. Sources: Townsend and Conversio (EU); ACC, TRP, CMA (US); CLCS internal insights.
2. In North America and Europe.
3. Other includes automotive, durable goods and construction.

Circular and Low Carbon Solutions (CLCS)

Growing sustainable value – for all stakeholders – from waste plastics

The global business case

- Polymers are critical to enable a low-carbon world and drive renewable energy transition
- Many operators in the plastics circular economy currently lack economies of scale
- Significant supply shortage of circular plastics expected in 2030+
- Plastic pollution is a critical issue, and we recognize the need for our industry to move faster

How we are contributing

- **Leveraging** our strengths to build a CLCS business
- **Providing** access to technology and sustainable-focused products
- **Expanding** multiple recycling solutions with our *Circulen* brands
- **Using** market access and knowledge to provide circular solutions in high performance plastic compounds and resins
- **Scaling** operations to accommodate for growing demand and need for sustainable solutions
- **Supporting** effective policies and infrastructure development
- Setting ambitious and specific targets for CLCS:
  - **2 MM t+**[1] / year of recycled and renewable-based polymers produced and marketed by 2030
  - **$1 B CLCS incremental EBITDA**[2] by 2030

circulen revive By LyondellBasell

circulen renew By LyondellBasell

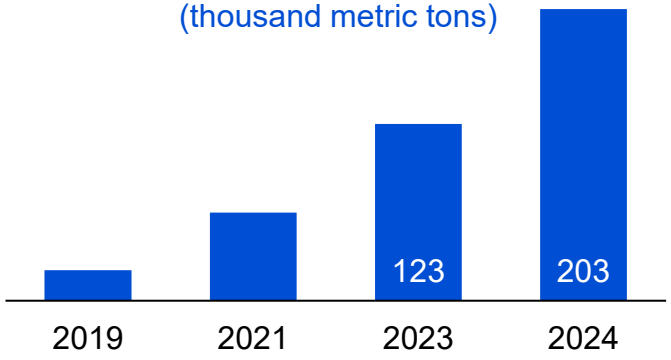
circulen recover By LyondellBasell

1. Million metric tons. 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.
2. Incremental to fossil-based O&P Americas and O&P EAI annual EBITDA.

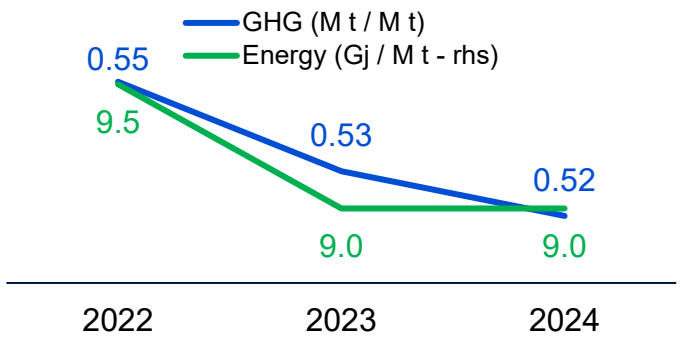
2024 sustainability highlights

We made progress on CLCS volumes, emissions and energy intensity and safety

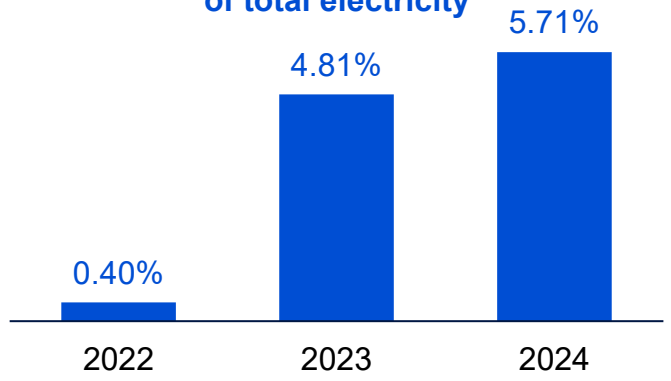
LYB recycled and renewable-based polymers[1]
(thousand metric tons)



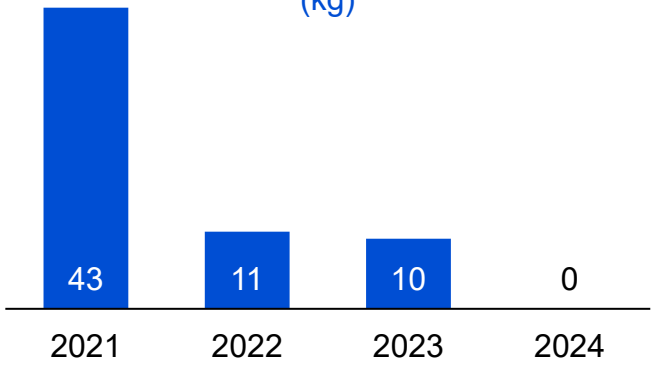
GHG emissions and energy intensity per ton of product



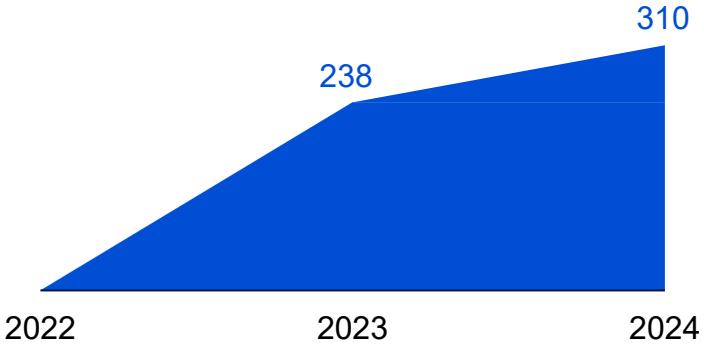
Renewable electricity % of total electricity



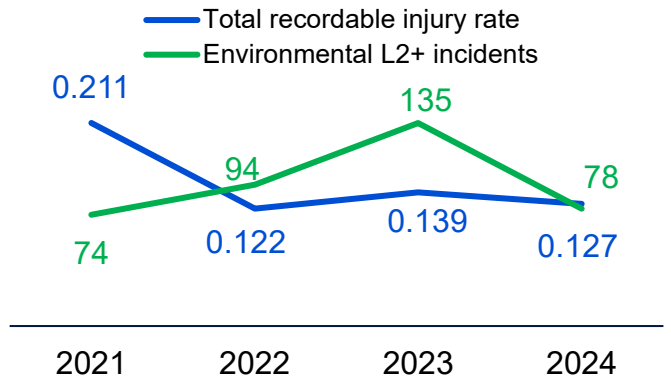
Pellet loss from our operations
(kg)



Cumulative GHG emissions reduction from VEP[2] projects



GoalZERO



1. Volumes produced and marketed 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.
2. Value Enhancement Program.

Our sustainability value case – The details

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Ending plastic waste

LYB is uniquely positioned to grow in circular plastics

Leveraging existing world-scale assets, enabled by proprietary technology

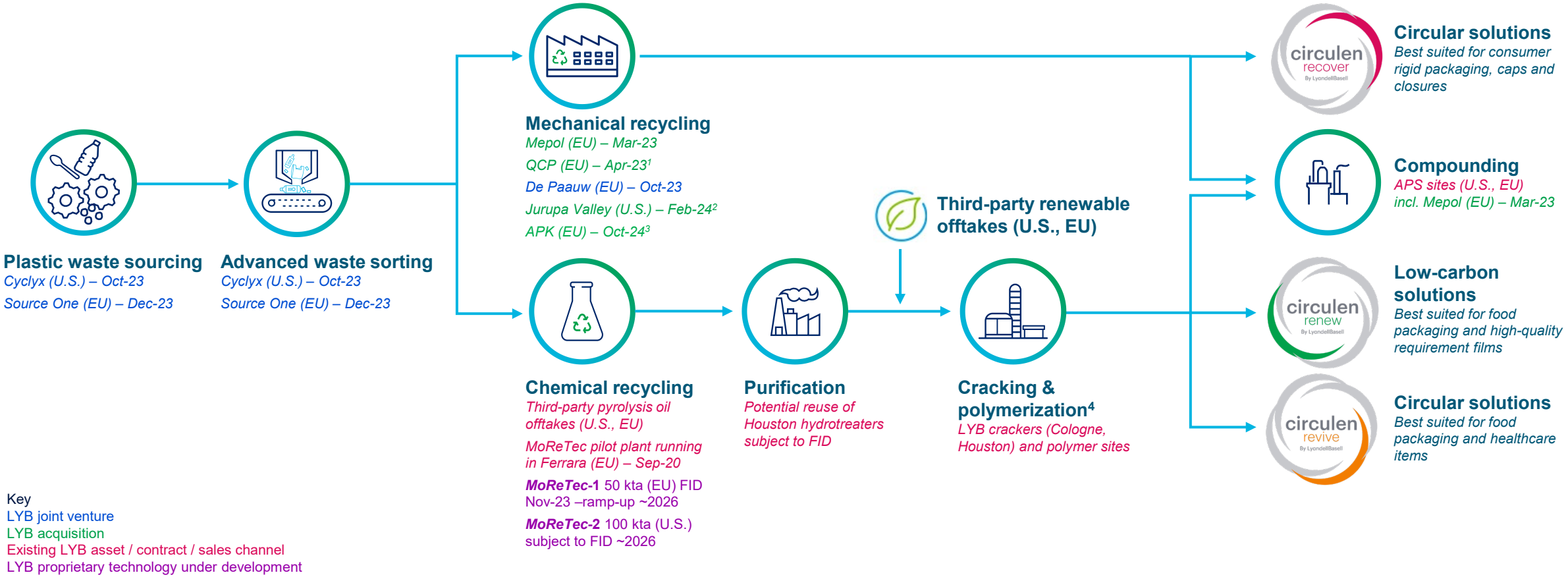
Market assessment for circular plastics	LYB	Petrochemical peers		Integrated oil companies		Independent recyclers	
		Peer 1	Peer 2	Peer 3	Peer 4	Mechanical	Chemical
Existing PE and PP product offering	✓	✗	✓	✓	✗	✓	✗
Integrated footprint in U.S. and E.U.	✓	✓	✗	✗	✗	✗	✗
Combined mechanical *and* chemical recycling footprint	✓	✓	✓	✗	✗	✗	✗
Liquid feedstock crackers can process feeds from chemical recycling and renewables	✓	✓	✓	✓	✓	✗	✗
Compounding capability to upgrade mechanical recycling product portfolio	✓	✗	✓	✗	✗	✓	✗

1. Source: LYB. Analysis based on public information of company-identified peers.

✓ Has existing capabilities ✗ Does not have existing capabilities

Our CLCS business across the circular value chain

Vertical integration creates synergies – more opportunities for value creation



Key
- LYB joint venture
- LYB acquisition
- Existing LYB asset / contract / sales channel
- LYB proprietary technology under development

1. Date of increase of LYB share in QCP to 100%.
2. Date of acquisition of Jurupa Valley Mechanical Recycling assets from PreZero in California (U.S.) announced.
3. Solvent-based recycling. LYB announced acquisition of a minority stake in Feb-23, and increased share to 100% of APK in Oct-24.
4. Mixed with traditional feedstocks; alternative feedstocks attributed to *Circulen*Revive and *Circulen*Renew using an ISCC Plus Certified mass balance approach

Our CLCS strategy

Driving incremental recycled volumes, at higher realized margins

Goals	Grow our position as a **trusted partner** for suppliers of plastic waste **feedstocks**	Leverage benefits from scale, logistics and cost at our **integrated chemical recycling hubs** in Cologne and Houston	Develop **regional hubs** to access and **supply plastic waste feedstocks** into integrated chemical recycling hubs	Leverage our **innovation capabilities for scalable solutions** that meet growing demand	Provide a **full range of solutions for all customers** and markets e.g. across *Circulen* brands
Actions	Growing a comprehensive sourcing strategy including mixed waste plastic and pyrolysis oil offtakes; directly and via JVs	Developing hubs with crackers in which pyrolysis oil and gas can partially displace fossil-based feedstocks; sorting, recycling, in-line compounding and post-treatment. Leveraging existing assets: • **Re-use of hydrotreaters**[1] from Houston refinery • Integrated plastic waste recycling hub in Knapsack, Germany • Closed-loop preparation center in Lich, Germany	Supplementing integrated hubs	Deploying **proprietary *MoReTec* technology**, potential future licensing opportunities	Collaborating with customers to provide recycled, renewable-based materials **at scale** that are: • **Indistinguishable** from fossil-based • Available **globally** • **Drop-in solutions** • **Traceable** Expanding **low carbon polymers** solutions

Targets

$1B
CLCS incremental EBITDA[2] by 2030

2 MM t+ / year
Recycled and renewable-based polymers produced and marketed[3] by 2030

Achieved

203kt
Recycled and renewable-based polymers produced and marketed[3] in 2024

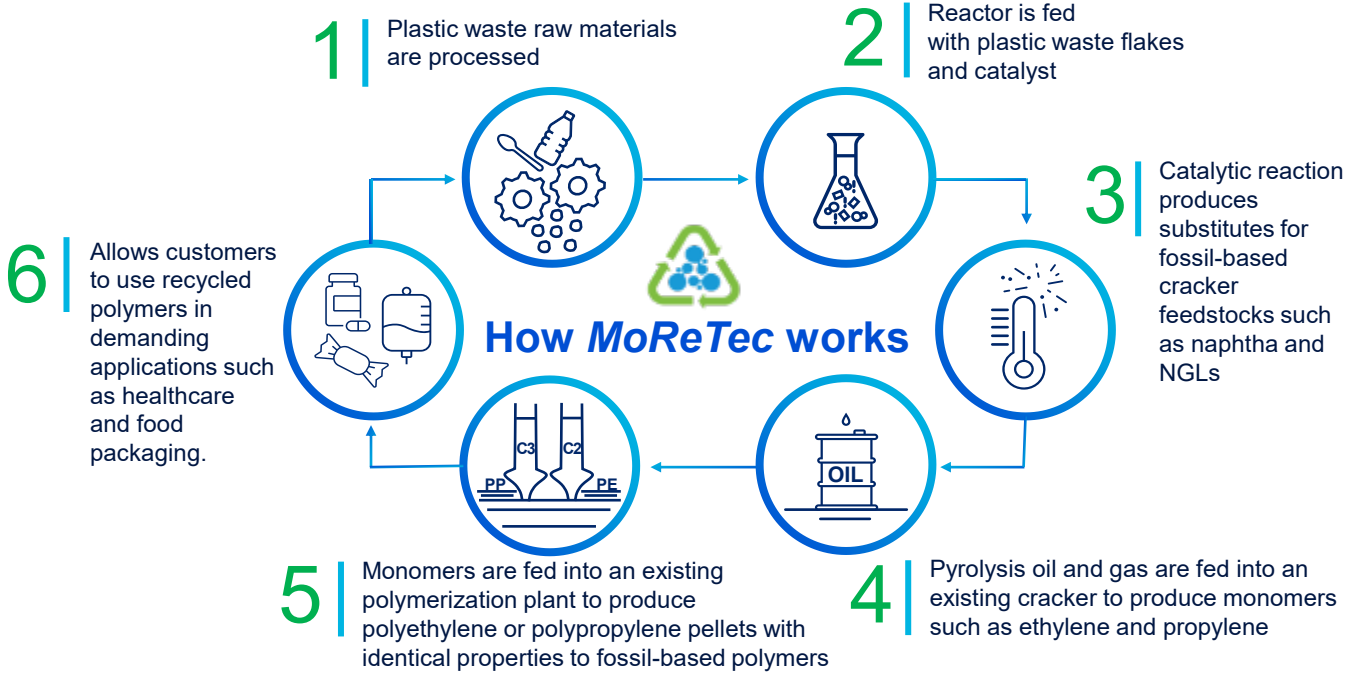
1. Subject to FID, expected ~2026.
2. CLCS incremental EBITDA is incremental to fossil-based O&P Americas and O&P EAI annual EBITDA.
3. Production and marketing includes: (i) joint venture production marketed by LYB plus our pro rata share of the remaining production produced and marketed by the joint venture, and (ii) production via third-party tolling arrangements.

MoReTec technology: a differentiated advantage

Maximizes plastic-to-plastic recycling, at scale and lower cost, with yields of greater than 80%

Our proprietary *MoReTec* technology

- **Scalable**, continuous process
- **10-50% lower operating costs**[1]
- Benefits from **integrated hubs located at existing world-scale facilities**
- Total yield of usable products from the *MoReTec* process expected to be **greater than 80% by weight of the input plastic**[2], given both pyrolysis oil and pyrolysis gas are used to produce new polyolefins
- **Lower energy consumption**
- *MoReTec*-1 process is estimated to have **less than 50% of the carbon footprint of fossil-based process**[3]
- More detail available from our webinar and related slides



MoReTec-1 + *MoReTec*-2 (subject to FID ~2026) expected to **contribute ~150 thousand tons / year to 2 MMt+[4] / year 2030 target**

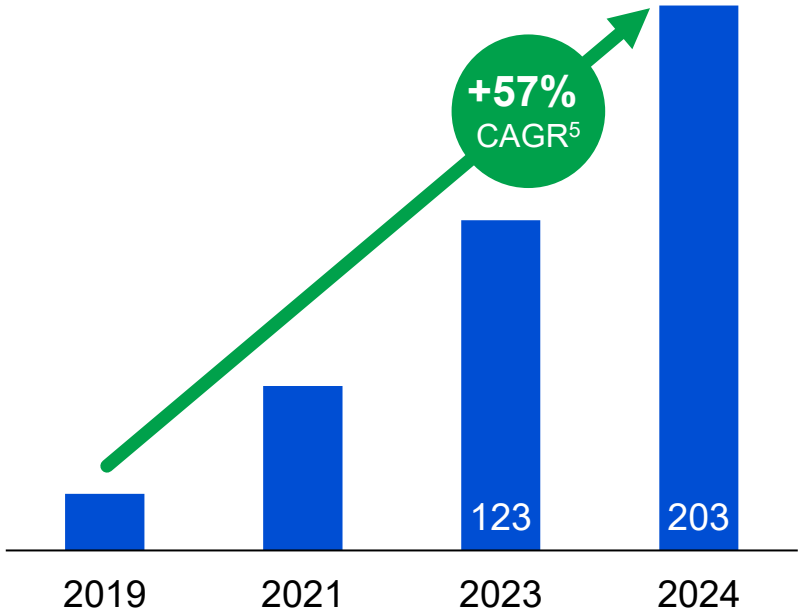
1. 10-15% lower than third party operating costs for smaller scale plants, and 30-50% lower than third party operating costs for large scale plants. Per LYB analysis and third-party data as of September 2023.
2. Yield depending on the quality of the waste plastic feedstock. We define yield as the percentage by weight of the waste plastic (with >85% polyolefin feed) fed to the process that is converted into liquid and gaseous products (pyrolysis oil and pyrolysis gas) that can be used to produce new polyolefins.
3. 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 pyrolysis oil and gas via the *MoReTec* process
4. Million metric tons. 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.

Expanding our product portfolio to capture upside

Aiming for Life Cycle Assessments (LCAs) on portfolio by 2026: prioritizing *Circulen* and *+LC* brands

LYB product	Value drivers
Circulen brands 203kt recycled and renewable-based polymers produced and marketed[1] in 2024	Incremental value crystallized from polymers sold under LYB brands with attributed **recycled or renewable content**: • *Circulen*Recover (mechanical recycling), • *Circulen*Revive (chemical recycling), and • *Circulen*Renew (renewable feedstock) Meets brand owners' commitments to a significant **increase in use of recycled plastic content**, and **scope 3 emissions reductions**. Strong demand, healthy realized margins and market structurally short 4MM t in 2030 and beyond[2].
_+LC_ (Low Carbon) solutions	A range of I&D[3] chemicals **sourced from recycled and renewable feedstocks**. *+LC* products include propylene oxide (PO) and co-products. ISCC PLUS-certified mass balance methodology to provide transparency and traceability.
Low carbon PP/PE (from lowering carbon footprint on legacy assets)	Value opportunity in market for low carbon polymers, which is likely to be **somewhat short in 2030 and beyond**[4]. Opportunity in market segments where near-term focus is on performance requirements. **Complementary value** to brand owners **between recycled and low carbon polymers**.

LYB recycled and renewable-based polymers[1]
(thousand metric tons)



1. 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.
2. Sources: Townsend and Conversio (EU); ACC, TRP, CMA (US); CLCS internal insights.
3. Intermediates & Derivatives segment.
4. Sources: McKinsey Chemical Insights, IHS Markit. Supply and demand for recycled and renewable-based polyethylene and polypropylene in North America and Europe, evaluated for LYB's Mar-23 Investor Day.
5. CAGR – Compound Annual Growth Rate.

Value from lowering carbon footprint of crackers

Aiming for LCAs[1] on majority of our portfolio by 2026: including low carbon PP/PE

Opportunity to capture low carbon value from PE/PP produced with fossil fuels in existing crackers

- We are pursuing value-accretive decarbonization projects
- We can capture net value by offering low carbon PE/PP products from existing crackers / polymerization plants once these projects have been executed
- Low carbon PE/PP offers price premium, market share and mix shift opportunities in the medium term
- Brand owners are making trade-offs across recycled and low carbon to meet their targets
- We see a strategic financial advantage from being an early mover in both

Key enablers to capture low carbon value from PE/PP produced with fossil fuels in existing crackers

- Executing value-enhancing carbon reduction projects on select existing crackers / polymerization plants
- Leveraging and building on existing industrial marketing capabilities (e.g. within CLCS)
- LCAs[1] and product carbon footprints (PCFs)
- Policies which support carbon value capture (EU's carbon border adjustment mechanism, chain of custody models)

1. Life Cycle Assessments.

Taking climate action

Decarbonization helps drive low carbon value

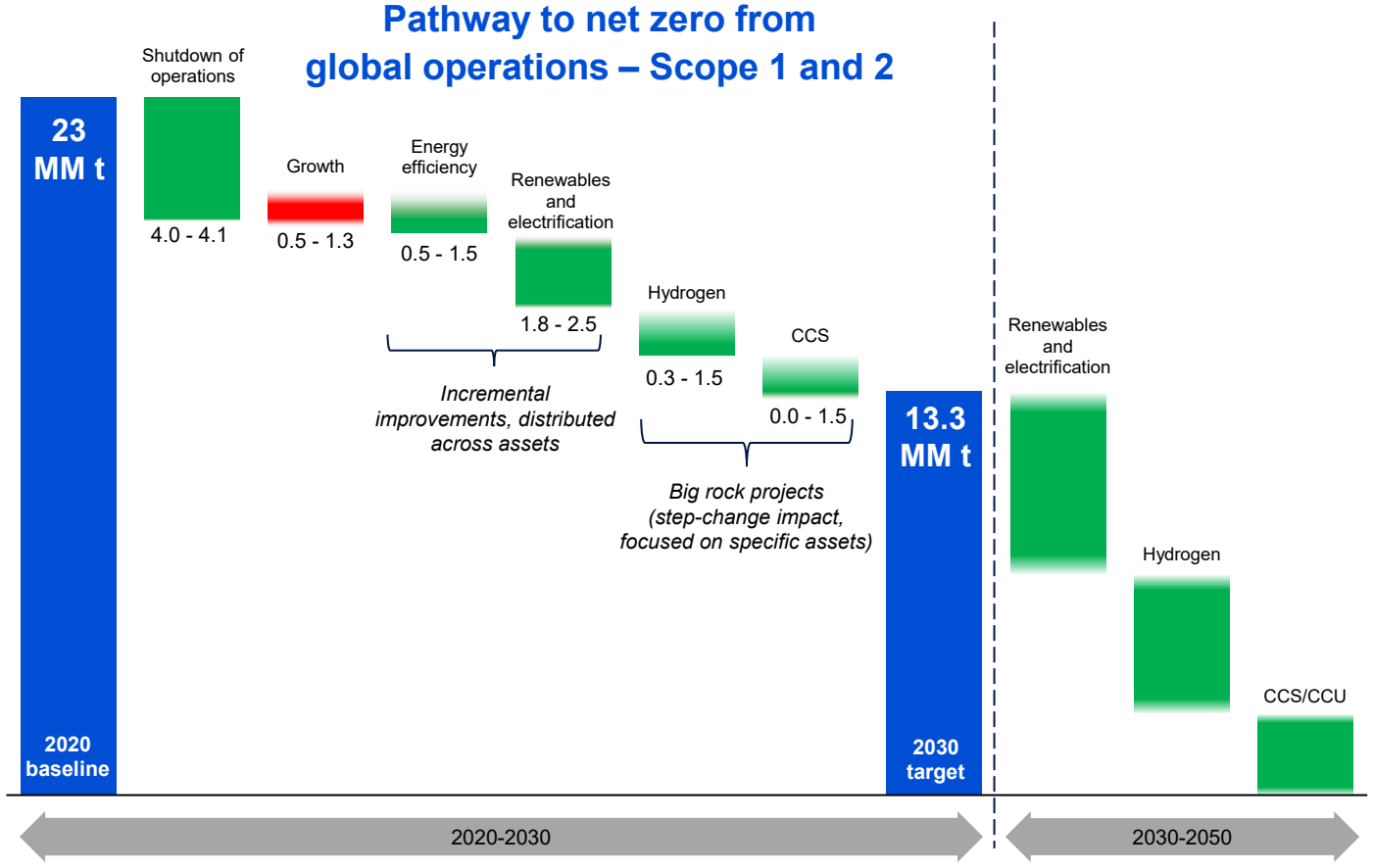
A large footprint creates opportunities for influence

Refining exit reduces Scope 3 emissions by ~40 MM t

Evaluating our impact on nature

Decarbonization helps drive low carbon value

Targets: reduce absolute Scope 1 and 2 GHG emissions by 42% by 2030, net zero 2050 ambition[1]



Low carbon value from PE/PP produced by legacy assets

- We are pursuing **value-accretive** decarbonization projects
- We can capture net value by offering **low carbon PE/PP** products from legacy fossil-fuel assets
- Price premium, market share and mix shift opportunities
- Brand owners are making **trade-offs across recycled and low carbon** to meet their targets
- We see a **strategic financial advantage** from being an early mover in both

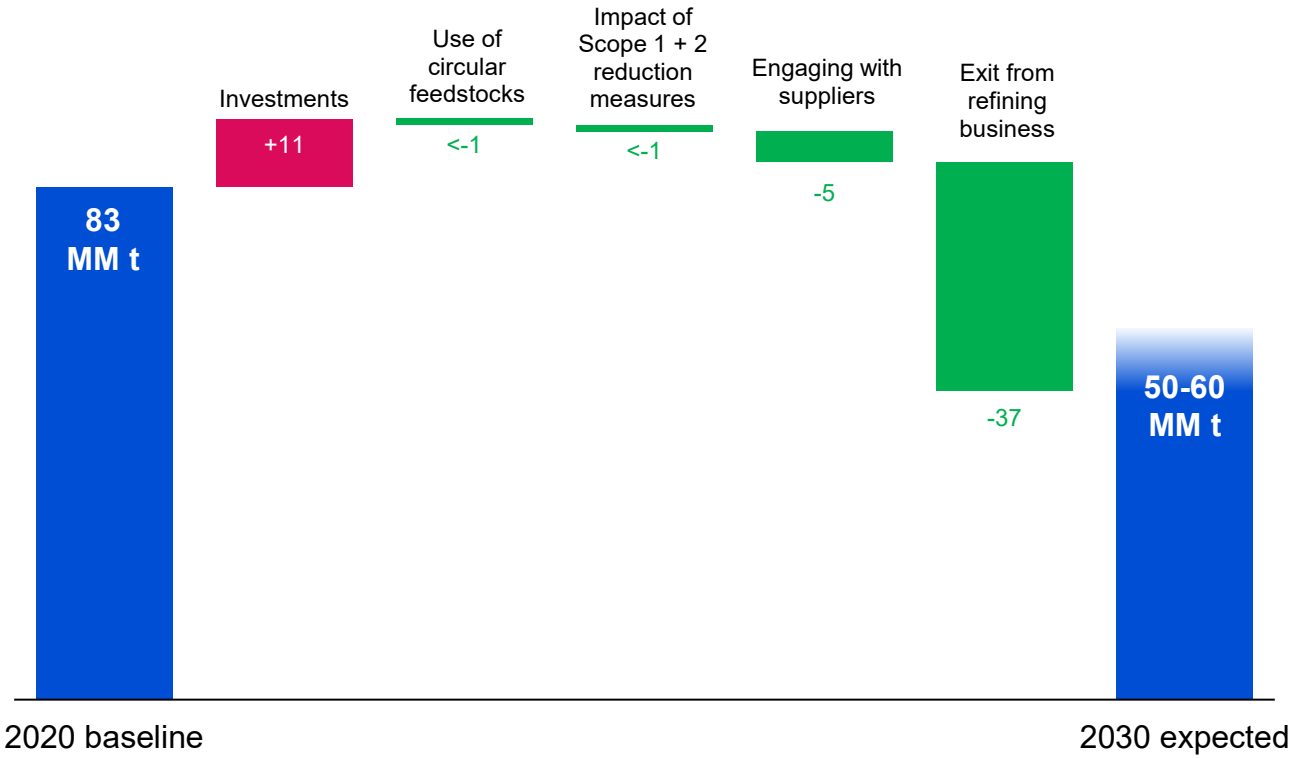
CCS/CCU – Carbon Capture and Storage / Carbon Capture and Utilization.

1. Relative to a 2020 baseline. Graph above represents the expected contribution of our four reduction levers to meet our 2030 Scope 1 and 2 target and a qualitative estimate for us to reach net zero Scope 1 and 2 in our global operations by 2050. Beyond 2030, scaling new technologies may also be part of the solution.

A large footprint creates opportunities for influence

Target: reduce absolute Scope 3 GHG emissions 30% by 2030[1]

Primary reduction levers to achieve Scope 3 GHG emissions reduction target[2]



Key drivers:

- Ended **crude oil refining** in 1Q25: We estimate our exit from the refining business will reduce scope 3 emissions, including those related to crude oil procurement and the sale and marketing of petroleum refined products, by ~40 MMt annually
- **Circular feedstocks:** Increasing our use of renewable bio-based and recycled feedstocks which can reduce emissions by displacing fossil-based raw materials
- **Supplier engagement:** Collaborating with feedstocks, raw materials, and logistics suppliers helps us better understand product carbon footprints and identify reduction opportunities
- **Lower-carbon fuels:** By reusing captive hydrogen and reforming methane-rich gas streams into hydrogen, we can displace fossil fuels like natural gas in our fuel mix and avoid associated upstream emissions

Chart represents projected pathway based on portfolio changes and potential reduction opportunities from our reduction levers: our actual pathway may differ.

1. Relative to a 2020 baseline.
2. In line with SBTi target setting requirements, our Scope 3 target includes emissions from at least two-thirds of our global Scope 3 emissions. Emissions from our feedstocks and raw materials (category 1), our energy-related activities (category 3), our upstream transportation (category 4), use of our products (category 11), and our equity investments (category 15) are included in our target boundaries.

Refining exit reduces Scope 3 emissions by ~40 MMt

Future options to leverage Houston Refinery assets for circularity and renewables

Chemical Recycling

MoReTec-2: Tripling our chemical recycling capacity[1] to **recycle plastic waste** into cracker feedstocks with **on-site purification utilizing existing hydrotreaters**

Renewable Cracker Feedstocks

Retrofitting existing assets for production of **renewable distillates and bio-based feedstocks** to be utilized in our olefins crackers

LYB Focused Growth

Repurposing on-site infrastructure to support growth, including potential partnerships on low-carbon feedstocks and products

Aligned with LYB strategy

Refining operations ceased in 1Q25 – New life for Houston refinery site

- Expanding access to sustainable feedstocks
- Addressing customer needs with market-leading approach for sustainable solutions and emission reductions
- Advancing low-carbon polymer offerings through chemical recycling[2] and pyrolysis oil hydrotreating[1]

1. Subject to FID ~2026.
2. Subject to Life Cycle Assessment on *MoReTec*-2.

Evaluating our impact on nature

Biodiversity and water are not material topics for LYB[1], but we are still making progress

Biodiversity

- Completing biodiversity impact assessments for **three of our priority sites**
- In 2025, we will progress these assessments to deepen our understanding of potential biodiversity impacts, and develop appropriate management responses
- We plan to incorporate learnings into our Environmental Management System

Water

- We use water primarily for process temperature management, steam production, and sanitary purposes
- **Less than 0.1%** of our global water consumption in high or extremely-high water risk locations[2]
- For the few sites located in high and extremely high water risk areas, we are evaluating opportunities to reduce consumption, including through reuse

Goals

- **Complete site-specific water risk management plans** at our large sites and facilities in high and extremely high water risk areas by 2030
- **Complete biodiversity impact assessments** at our 9 priority sites
- **Zero environmental incidents** as part of our GoalZERO goal

1. We use comprehensive materiality assessments to help define the ESG topics that matter most to our business and stakeholders. Through our 2024 double materiality assessment process we determined our EU CSRD aligned material topics to be climate change, circularity, pollution, own workforce, consumers and end-users and business conduct.
2. Based on World Resources Institute (WRI) water risk framework, Aqueduct 4.0 (WRI Aqueduct).

Supporting a thriving society

Industry-leading safety performance

Industry-leading safety performance

GoalZERO – Our commitment to operating safely with zero injuries, zero incidents and zero accidents

Foundation of GoalZERO

People

We put people at the heart of everything we do. Ensuring that people make it back home to the people that matter to them is a priority

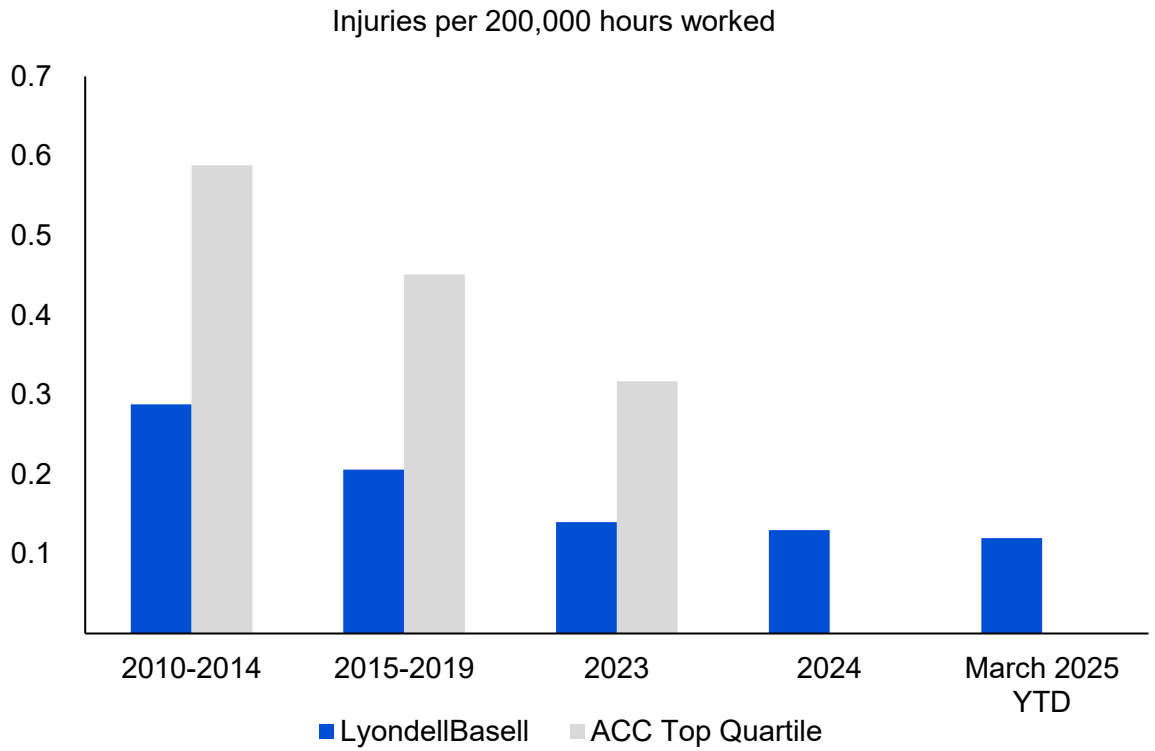
Excellence

GoalZERO success requires commitment and engagement from each of us. We work safely and do our best because it is the right thing to do

Future

We are future-focused by making responsible, safe decisions

Our focus on safety is reflected in steadily declining injury rates



Sources: American Chemistry Council (ACC) and LyondellBasell.
Notes: Medium and large companies only. Number of hours worked includes employees and contractors.

Strong leadership and governance

Robust leadership on sustainability
Balanced incentive structure
An experienced and diverse board
Green financing is embedded in our capital structure
Engaging with governments and regulators
Promoting transparency with our trade associations
We are committed to product safety

Robust leadership on sustainability

Key leaders responsible for sustainability oversight, strategy and implementation

Peter Vanacker

Chief Executive Officer

Previously CEO at Neste Corporation, a renewable products company. Also served as CEO of CABB Group GmbH, a fine chemicals producer, and of Treofan Group, a manufacturer of PP film.

Rita Griffin

Non-Executive Director

Chair of the Health, Safety, Environment and Sustainability committee on our board. More than 30 years' experience with global oil and gas and chemicals businesses. Previously COO of Global Petrochemicals at BP plc.

Yvonne van der Laan

EVP, CLCS[1]

Previously Director, Optimization Olefins and Polyolefins Europe at LYB. Previously a VP at the Port of Rotterdam. More than 20 years' experience in chemicals with SABIC and DSM

Dale Friedrichs

EVP, Operational Excellence and HSE

Previously SVP for Human Resources and Global Projects at LYB. More than 30 years' experience, with leadership positions in global HSE and manufacturing.

Chris Cain

SVP, Net Zero Transition Strategy

Previously SVP for Global Manufacturing at LYB. More than 30 years' experience, including as site manager for our major Olefins and Polyolefins manufacturing sites in the U.S.

Jim Seward

EVP, Chief Innovation Officer

Responsible for the Technology segment, R&D, Cyber Security and IT. More than 30 years' experience with LYB, including leading the International Olefins and Polyolefins business and Sustainability.

Tracey Campbell

EVP, Sustainability and Corporate Affairs

Previously VP of Public Affairs at LYB. More than 30 years' global petrochemical experience including leadership positions in our business, manufacturing and support segments.

Andrea Brown

VP, Chief Sustainability Officer

Previously Director of Circular Economy and Director of Chemicals at the WBCSD. More than 20 years' experience in sustainability; including working alongside UN agencies, NGOs and alliances.

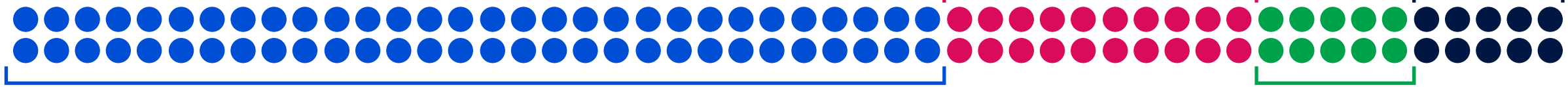
Responsibility for our sustainability strategy spans our board of directors, executive committee, executives and professional employees; and is integrated into our incentive plans.

1. Circular and Low Carbon Solutions.

Balanced incentive structure[1]

Driven by value generation, safety and sustainability

2024 Short Term Incentives (STIs)



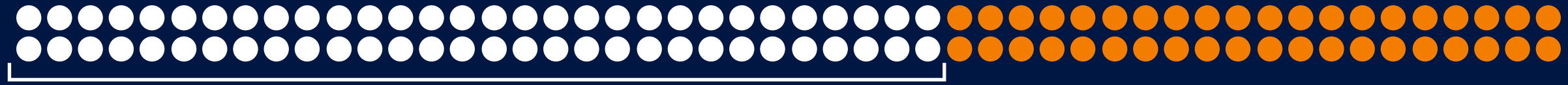
60% EBITDA
Performance against Adjusted EBITDA Budget

20% Safety
TRIR (50%) Injury Rate
PSIR (50%) Process Safety Incident Rate

10% Value Creation Milestones
Achievement of incremental EBITDA targets

10% Sustainability
- PPA execution
- Energy efficiency
- Produce and market recycled / renewable based polymers

2025 Long Term Incentives (LTIs)



60% PSUs
Performance-based awards that pay based on the Company's TSR over a three-year period and free cash flow per share relative to long-range plan projections

40% RSUs
Time-based awards that vest rateably over three years

1. Incentive structure reflects Executive Compensation.

An experienced and diverse board

Board of Directors' independence, diversity, tenure and experience

Independent directors

Gender/ethnically/ racially diverse

Females

Ethnically/racially diverse

Non-U.S. or dual citizen

Tenure

- 0-4 years
- 5-8 years
- 8+ years

Experience and expertise	Algrain	Benet	Buchanen	Chase	Dudley	Farley	Griffin	Hanley	Kamsky	Karlin	Manifold	Vanacker
Industry experience	●		●		●		●		●			●
HSE experience					●		●	●	●	●	●	●
Corporate strategy	●	●	●	●	●	●	●	●	●	●	●	●
M&A	●	●	●	●	●	●	●	●	●	●	●	●
Corporate finance	●	●	●	●		●	●	●	●	●	●	●
Executive management / CEO experience	●	●	●	●	●	●	●	●	●	●	●	●
Corporate governance	●	●	●	●	●	●	●	●	●	●	●	●
Risk management	●	●	●	●	●	●	●	●	●	●	●	●
Public company director	●	●	●	●	●	●	●	●	●	●	●	●
Human capital management		●	●	●	●	●	●	●	●	●	●	●
Information systems and security									●	●		●
Technology and innovation		●		●	●			●	●	●		●
Public policy and compliance		●		●	●			●	●	●		●

Our capital structure includes green financing

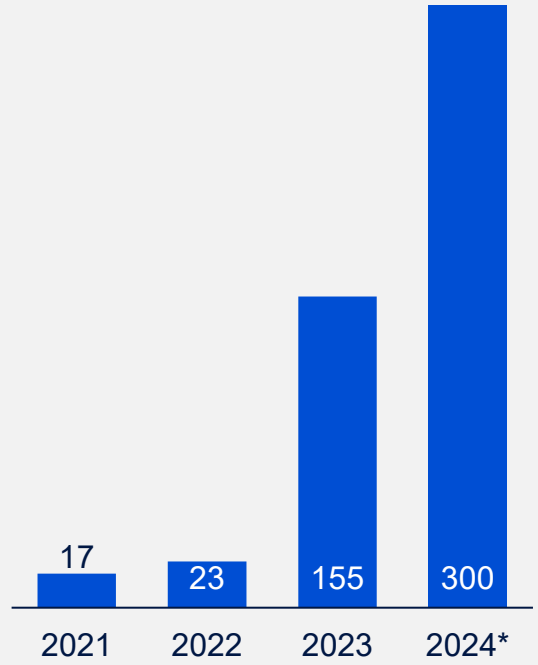
Inaugural green bond – Issued in May 2023 - $500 MM, 10-year notes, 5.625% coupon

LYB has established a Green Financing Committee responsible for governing the evaluation and selection of the Eligible Green Projects, managing the allocation of net proceeds from the Green Bond, and tracking expenditures for Eligible Green Projects.

The Green Bond net proceeds are being used to finance Eligible Green Projects that fall in one or more of the following categories:

- Circular economy adapted products, production technologies and processes
- Pollution prevention and control
- Energy efficiency
- Renewable energy

Green Bond spend by year ($ MM)



Allocation is based on cash outlays[1] (excl. PPAs as described below), and includes:

- Capex
- Operating costs
- Late-stage R&D
- Acquisition of assets/entities with at least 90% of revenue from Eligible Green Project Categories
- Equity investments and loans
- PPAs – dollar value of LYB portion of renewable energy generated at the contract price

1. The dollar value of any subsidies, tax credits and grants that may apply to the Eligible Green Projects are excluded from the allocation of net proceeds.
* Net green bond proceeds of $495 MM fully allocated as of December 31, 2024.

Engaging with governments and regulators

Advocating for positive change on issues affecting LYB and our stakeholders

LYB supports the goal of limiting global temperature rise to well below 2ºC above preindustrial levels and to pursue efforts to limit the temperature increase even further to 1.5ºC. We support emission reduction targets that help the world reach net zero by 2050.

We have developed public policy positions on:

- **Complementarity of mechanical / advanced recycling**
- **Extended producer responsibility**
- **Hydrogen**, **renewables**, and
- **Carbon capture utilization and storage (CCUS)**

Our other climate policy positions:

- We support a **carbon pricing** scheme that facilitates a net zero transition
- We support policies which accelerate **emerging technologies** that enable the reduction of emissions from carbon intensive manufacturing

Our global position[1] on the circular economy for plastics is that we support:

- **Mandates** on recycled plastic content
- Legislation that recognizes **chemical recycling**
- Legislation that counts **both recycled and renewable-based plastics** towards circularity targets
- Governments recognizing and allowing the use of third party **certified mass balance** accounting systems[2] and considering the impacts over the **product life cycle**
- **Standardization and simplification** of recycling systems, standards and labelling
- **Financial and regulatory support for** innovative solutions needed to complement existing recycling and sorting technologies
- **A UN Global Plastics Agreement** that combats pollution by enabling a transition to circularity. Primary focus should be on ending plastic pollution rather than restricting the production or use of plastic or plastic additives

In Europe, we are taking an active role across areas of regulations shaping the circular & low carbon solutions landscape. Our focus areas include:

- **Packaging and packaging waste regulation (PPWR)** which sets minimum recycled content requirements depending on type of plastic packaging, and specific targets for recycling; entered into force in February 2025

1. While such measures may be applied at the international, regional, national or local level, they should all take into account local conditions to maximize effectiveness.
2. Mass balance accounting systems are key enablers for our *Circulen* and *+LC* brands.

Promoting transparency with our trade associations (TAs)

Our participation in TAs enable us to promote our priorities and engage as an industry

Industry association	Region	2022 Grade	Paris Agreement	Hydrogen/ low-carbon fuels	CCUS	Emerging technologies	Renewable & low carbon electricity	Carbon pricing
American Chemistry Council (ACC)	United States	Aligned	●	●	●	●	●	●
American Fuel and Petrochemical Manufacturers (AFPM)	United States	Misaligned	●	●	●	●	●	●
BusinessEurope	European Union	Aligned	●	●	●	●	●	●
European Chemical Industry Council (Cefic)	European Union	Aligned	●	●	●	●	●	●
International Council of Chemical Associations (ICCA)	International	Aligned	●	●	●	●	●	●
National Association of Manufacturers (NAM)	United States	Aligned	●	●	●	●	●	●
Plastics Europe	European Union	Aligned	●	●	●	●	●	●
Plastics Industry Association (Plastics)	United States	No public position	●	●	●	●	●	●
Texas Chemical Council (TCC)	United States (Texas)	No public position	●	●	●	●	●	●
United States Council for International Business (USCIB)	International	Aligned	●	●	●	●	●	●

In our inaugural Climate Advocacy report (published May 2023) we evaluated our key TAs' climate policies and categorized each TA as:

Aligned – TA is fully aligned with our climate position or commitment

Partially aligned – TA does not fully match our position or commitment

Misaligned – TA is largely inconsistent with or opposes our position or commitment

No public position – TA has no public position

Next steps for engagement with TAs:

- Continuing to engage and track alignment on climate and energy transition topics (ACC, AFPM, BusinessEurope, Cefic, ICCA, NAM, Plastics Europe, Plastics, USCIB);
- Advocate for Plastics to re-initiate the activities of its sustainability advisory board to ensure clarity on climate positions

Next steps for reporting:

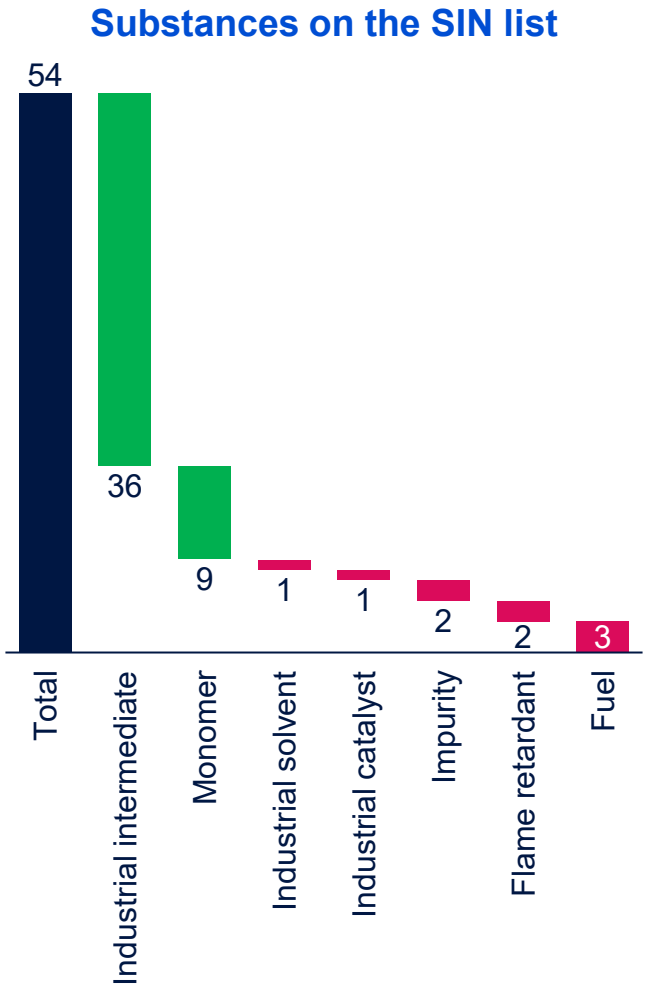
- Update every two years
- We are evaluating a number of improvements in 2025 to enhance our disclosure

We are committed to product safety

We are committed to promoting a comprehensive approach to chemicals management and sustainability in all aspects of our products' life cycles. We apply the same product safety standards for all LYB products, including products based on recycled raw materials.

Our commitment to Sound Chemicals Management:

- We implement sustainability and safety criteria as part of our product innovation process
- Specifically, LYB endeavors to **remove** carcinogenic, mutagenic and reprotoxic (CMR) substances, as listed in the European Regulation on Classification, Labelling and Packaging of substances and mixtures, from our product portfolio or **reduce them to less than 0.1%** concentration by weight where reasonably possible
- **Use of SVHC**[1]: In 2024, less than 0.1% of our total number of products and representing approximately 3% of revenue, contained substances in the candidate list of SVHC for authorization above 0.1wt%
- **SIN list substances**: ChemSec is an independent NGO that advocates for safer alternatives to hazardous chemicals through its Substitute It Now (SIN) list
- In November 2024, ChemSec's ChemScore ranking identified **LYB in the top quartile of companies** driving safer alternatives, with a 76% ranking improvement and a 130% total score increase since 2020
- As of August 2024, the LYB product portfolio includes 54 substances on the SIN List; however, the vast majority of products with these substances are either used as monomers and / or intermediates in industrial settings, meaning there is very **limited consumer use**



1. Substances of very high concern as identified under the EU REACH regulation.

Robust strategy, to deliver future value for all stakeholders

LYB scores well vs peers on third-party ESG ratings

Sector-leading, value-focused sustainability strategy

LYB scores well vs peers on third-party ESG ratings

Sector-leading strategy and improved disclosure has led to positive momentum

		2020	2021	2022	2023	2024 / Most Recent	Peer median[1]
CDP – Climate	Assessing a company's progress towards environmental stewardship as communicated through the CDP response	B-	B	B	A-	A-	B
CDP – Water Security	An indicator of a company's commitment to transparency around their environmental risks, and the sufficiency of their response		Not Scored	B-	B-	B-	C
FTSE4Good Index	Measures the performance of companies demonstrating strong ESG practices, and used by a variety of market participants to create and assess responsible investment funds and other products		Included	Included	Included	Included	
MSCI ESG Rating	Aims to measure a company's management of financially relevant ESG risks and opportunities	BBB	BBB	A	AA	AA	BB
S&P Corporate Sustainability Assessment	An annual evaluation of a company's sustainability practices (a higher score is better)	28	30	47	52	58	25
EcoVadis Performance Rating	Scoring and screening solution designed to help institutional investors review a company's governance quality and assess risk	57	65	67	68	72	58
ISS ESG QualityScores[2]	Data-driven scoring and screening solution designed to help institutional investors review a company's governance quality and assess risk	Governance: 1 Environment: 3 Social: 4	Governance: 1 Environment: 3 Social: 1	Governance: 1 Environment:4 Social: 1	Governance: 2 Environment: 1 Social: 1	Governance: 1 Environment: 1 Social: 1	

1. Peer median is the most recent. Peer group is independently determined by each of the respective rating agencies.
2. Decile ranking relative to peers 1 (best) to 10 (worst).

Sector-leading, value-focused sustainability strategy

We aim to be a leader, generating value for a range of stakeholders

- ✓ Our corporate strategy and sustainability pillars are in sync and mutually reinforcing
- ✓ Our circular and low carbon polymer strategy is value-focused leveraging our market and technology capabilities
- ✓ Further potential for value creation in recycled, renewable and low carbon polymers and chemicals beyond 2030
- ✓ We have clear and ambitious climate ambitions
- ✓ We believe being a sector leader in sustainability generates unique opportunities for commercial success
- ✓ Our sector-leading sustainability strategy is increasingly recognized positively externally

Our approach is guided by our purpose and integral to our strategy. We focus specifically on actions where we can positively influence and be differential; helping to end plastic waste and build a circular economy, taking climate action, supporting a thriving society. We see the impact we have as an opportunity: to generate/unlock value for our customers, investors and society.

See our 2024 Sustainability Report for more details

Appendix

Information related to financial measures

This presentation makes reference to certain “non-GAAP” financial measures as defined in Regulation G of the U.S. Securities Exchange Act of 1934, as amended. We report our financial results in accordance with U.S. generally accepted accounting principles, but believe that certain non-GAAP financial measures provide useful supplemental information to investors. Non-GAAP financial measures should be considered as a supplement to, and not as a substitute for, or superior to, the financial measures prepared in accordance with GAAP. Our non-GAAP measures are as follows:

Circular & Low Carbon Solutions (“CLCS”) incremental EBITDA – Estimated EBITDA which is incremental to LyondellBasell’s fossil-based O&P Americas and O&P EAI annual EBITDA. CLCS incremental EBITDA cannot be reconciled to net income due to the inherent difficulty in quantifying certain amounts that are necessary for such reconciliation at the business unit level including adjustments that could be made for interest expense (net), provision for (benefit from) income taxes and depreciation & amortization, the amounts of which, based on historical experience, could be significant.

EBITDA – Net income plus interest expense (net), provision for (benefit from) income taxes, and depreciation and amortization. This measure provides useful supplemental information to investors regarding the underlying business trends and performance of our ongoing operations and is useful for period-over-period comparisons of such operations. EBITDA should not be considered an alternative to profit or operating profit for any period as an indicator of our performance, or as an alternative to operating cash flows as a measure of our liquidity.

These measures as presented herein, may not be comparable to similarly titled measures reported by other companies due to differences in the way the measures are calculated. Reconciliations for our non-GAAP measures can be found on our website at www.LyondellBasell.com/investorrelations.