

2017 Data Book





Suzhou, China

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 which are believed to be reasonable at the time made and are subject to significant risks and uncertainties. Actual results could differ materially based on factors including, but not limited to, the business cyclicalities of the chemical, polymers and refining industries; the availability, cost and price volatility of raw materials and utilities, particularly the cost of crude oil, natural gas, and associated natural gas liquids; 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 achieve expected cost savings and other synergies; our ability to successfully execute projects and growth strategies; legal and environmental proceedings; tax rulings, consequences or proceedings; technological developments, and our ability to develop new products and process technologies; 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 service 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, 2017, 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.

The illustrative results or returns of growth projects are not in any way intended to be, nor should they be taken as, indicators or guarantees of performance. The assumptions on which they are based are not projections and do not necessarily represent the Company's expectations and future performance. You should not rely on illustrated results or returns or these assumptions as being indicative of our future results or returns.

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.

Reconciliations for our non-GAAP measures can be found in the Appendix to this presentation or on our website at www.lyb.com/investorrelations.



Maasvlakte, Germany

Information Related to Financial Measures

This Data Book makes reference to certain “non-GAAP” financial measures as defined in Regulation G of the U.S. Securities Exchange Act of 1934, as amended. The non-GAAP measures we have presented include diluted earnings per share from continuing operations excluding LCM, EBITDA and EBITDA excluding LCM. LCM stands for “lower of cost or market,” which is an accounting rule consistent with GAAP related to the valuation of inventory. Our inventories are stated at the lower of cost or market. Cost is determined using the last-in, first-out (“LIFO”) inventory valuation methodology, which means that the most recently incurred costs are charged to cost of sales and inventories are valued at the earliest acquisition costs. Market is determined based on an assessment of the current estimated replacement cost and selling price of the inventory. In periods where the market price of our inventory declines substantially, cost values of inventory may be higher than the market value, which results in us writing down the value of inventory to market value in accordance with the LCM rule, consistent with GAAP. This adjustment is related to our use of LIFO accounting and the decline in pricing for many of our raw material and finished goods inventories. We report our financial results in accordance with U.S. generally accepted accounting principles, but believe that certain non-GAAP

financial measures, such as EBITDA and earnings and EBITDA excluding LCM, provide useful supplemental information to investors regarding the underlying business trends and performance of the company’s ongoing operations and are useful for period-over-period comparisons of such operations. 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.

EBITDA, as presented herein, may not be comparable to a similarly titled measure reported by other companies due to differences in the way the measure is calculated. We calculate EBITDA as income from continuing operations plus interest expense (net), provision for (benefit from) income taxes, and depreciation & amortization. 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. We have also presented financial information herein exclusive of adjustments for LCM.

Reconciliations for our non-GAAP measures can be found on our website at www.lyb.com/investorrelations.

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Our Corporate Strategy

LyondellBasell is a top performer in our industry. To accomplish this, four strategic elements guide our actions.

Operational Excellence

Operational Excellence is LyondellBasell's continuous improvement process designed to deliver safety, environmental responsibility, and reliability in everything we do. We operate our businesses with the highest principles of integrity, ethics and corporate responsibility and contribute to a sustainable future by improving operational efficiency and reducing energy consumption. Our operating practices are based on continually updated company and industry knowledge, allowing us to achieve safe and reliable performance, which has a direct positive impact on our bottom line.

Financial Discipline

Our management is committed to a financial strategy that positions the company long-term and targets the highest return to shareholders. Our relentless commitment to deliver industry-leading performance, coupled with the strength of our global portfolio, returned another year of strong, consistent earnings per share performance. Despite crude oil price volatility, this performance has been extremely stable.

Focused Investment and Growth

LyondellBasell continues to expand our advantaged positions by advancing a robust pipeline of growth projects. Over the past 5 years we have funded \$8.3 billion in capital investments with 45% allocated to profit-generating growth projects. The company is positioned to capture the benefits of this work for years to come.

Cost Management

Delivering top performance requires disciplined cost control regardless of industry conditions. Careful management of fixed costs and a lean, motivated organization are key drivers of our business model.

Return to Shareholders in 2017

- \$2.3 billion in share repurchases and dividends
- 10.0 million shares repurchased (3%)
- Dividend increased by 7% from 2016

Strong Balance Sheet and Cash Flow in 2017

- Free Cash Flow: \$3.7 billion
- Debt/EBITDA of 1.2x, excluding LCM
- Corporate Rating of BBB+/Baa1

LyondellBasell At A Glance

LyondellBasell Overview

LyondellBasell (NYSE: LYB) is one of the largest plastics, chemicals and refining companies in the world. Driven by approximately 13,400 employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more

versatile pipes, and improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road. LyondellBasell sells products into approximately 100 countries and is the world's largest licensor of polyolefin technologies. More information about LyondellBasell can be found at www.lyondellbasell.com.

Highlights of Consolidated Financial Statements (USD millions, except share data)⁽¹⁾

	2015	2016	2017
Sales and other operating revenues	\$32,735	\$29,183	\$34,484
Income from continuing operations ⁽²⁾	\$4,479	\$3,847	\$4,895
Diluted earnings per share from continuing operations	\$9.60	\$9.15	\$12.28
Cash flow from operating activities	\$5,842	\$5,606	\$5,206
EBITDA	\$7,533	\$6,602	\$7,134
LCM adjustment	\$548	\$29	-
EBITDA, excluding LCM	\$8,081	\$6,631	\$7,134
Income from continuing operations, excluding LCM ⁽²⁾	\$4,830	\$3,865	\$4,895
Diluted earnings per share from continuing operations, excluding LCM ⁽²⁾	\$10.35	\$9.20	\$12.28
Cash and liquid equivalents and restricted cash	\$2,382	\$2,394	\$3,405
EBITDA excluding LCM/Revenues	25%	23%	21%
Dividends per share	\$3.04	\$3.33	\$3.55
Total debt/EBITDA excluding LCM	1.0x	1.4x	1.2x

(1) Reconciliations for our non-GAAP measures, including a discussion concerning our "lower of cost or market," or LCM adjustments, can be found beginning on page 37. An explanation of LCM can be found under the "Information Related to Financial Measures" section in the front of this Data Book. Balance sheet items represent end of year data.

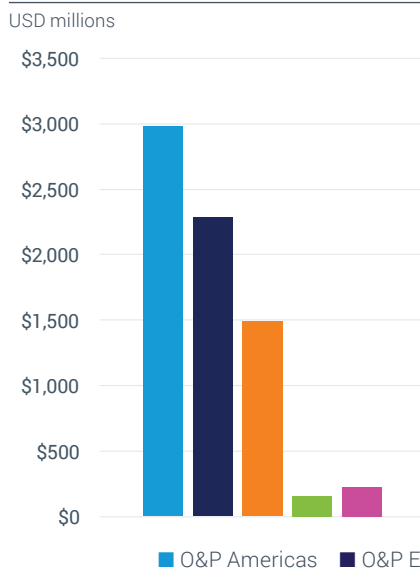
(2) Income from continuing operations of \$4,895 million and diluted EPS from continuing operations of \$12.28 per share reflect a fourth quarter one-time, non-cash benefit of \$819 million (\$2.05 per share) from the reduction of net deferred tax liabilities due to U.S. Tax reform.

Global Capacity Positions⁽³⁾

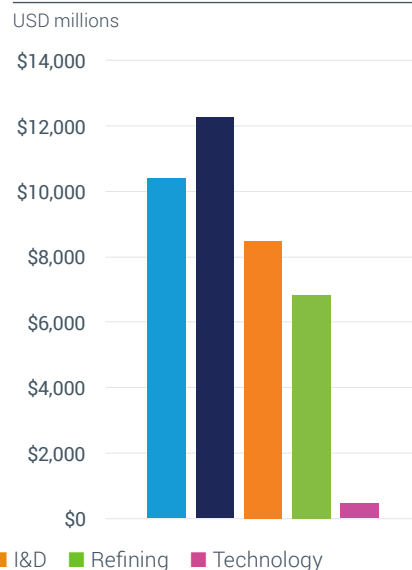
Ethylene	5th
Polyethylene	6th
Propylene	6th
Polypropylene	2nd
Propylene oxide	2nd
Oxygenated fuels	2nd

(3) Source: IHS Markit 2017 industry capacity data and LYB. Capacity ranking includes LYB's share of joint ventures capacity.

2017 EBITDA, excluding LCM



2017 Sales by Segment⁽⁴⁾



(4) Revenue amounts reported include intersegment revenues without the presentation of "other," which includes the elimination of intersegment revenues. The total of the amounts presented will exceed consolidated revenues.

Our Business Segments

LyondellBasell Portfolio

LyondellBasell consists of a balanced, integrated product portfolio comprising five major business segments. Each plays a strategic role in creating stakeholder value.



O&P–Americas

Our O&P–Americas segment produces and markets olefins and co-products, polyethylene and polypropylene. We are the second largest producer of ethylene in North America. In 2016-2017, we added a total of 880 million pounds of ethylene capacity. We are also the largest polypropylene producer and third largest polyethylene producer in North America.

Key Advantages

Capable of processing low cost shale-based feedstocks and optimizing across six crackers



O&P–Europe, Asia & International

Our O&P–EAI segment produces and markets olefins and co-products, polyethylene and polypropylene, including polypropylene compounds. We are the largest producer of polyethylene and polypropylene in Europe. During 2017, our European assets in this segment delivered record performance for the fourth consecutive year.

Key Advantages

Feedstock-advantaged joint ventures and differentiated polyolefin products

Selected Products

- Ethylene
- Propylene
- Polyethylene
- Polypropylene
- Catalloy
- Polypropylene compounds
- Polybutene-1
- Butadiene
- Benzene

End Uses

- | | | |
|-------------|--------------|-------------------|
| ■ Packaging | ■ Automotive | ■ Films |
| ■ Textiles | ■ Appliances | ■ Flexible Piping |



Intermediates and Derivatives

Our I&D segment produces and markets propylene oxide and its derivatives, oxyfuels and related products, and intermediate chemicals such as styrene monomer, acetyls, and ethylene oxide and derivatives. In 2017, EBITDA returned to the historical levels typically seen for the business of approximately \$1.5 billion. We are the world's second largest producer of propylene oxide and oxyfuels. We believe that our proprietary propylene oxide and acetyls process technologies provide us with a cost advantaged position for these products and their derivatives.

Key Advantages

Leading proprietary technologies
Diversity and linkage of our integrated product portfolio
Access to low cost natural gas

Selected Products

Propylene oxide
Styrene monomer
Propylene glycols and ethers
Methanol and acetyls
TBA intermediates
Ethylene oxide
Ethylene glycols and ethers
Oxygenated fuels

End Uses

- Insulation
- Home furnishings
- Adhesives
- Automotive
- Consumer products
- Coatings
- Fuel additives



Refining

Our Houston refinery is capable of refining heavy, high-sulfur crude oil into refined products including gasoline and distillates. Our significant hydrotreating and coking capacity positions us well in a market with increasingly stricter sulfur regulations.

Key Advantages

Capability to process diverse crude mix
Strategic location on the Gulf Coast
Capable of meeting the Tier III sulfur specification

Selected Products

Gasoline
Ultra low-sulfur diesel
Jet fuel
Lube oils
Aromatics

End Uses

- Automotive fuels
- Aviation fuels
- Heating oil
- Industrial engine lube oils



Technology

Our Technology segment develops and licenses chemical and polyolefin process technologies and manufactures and sells polyolefin catalysts. More than 250 polyolefin lines around the world utilize LyondellBasell-licensed technology representing more than 110 billion pounds of annual production capacity.

Key Advantages

Industry leading polyolefin process technologies
Leading portfolio of polyolefin catalysts

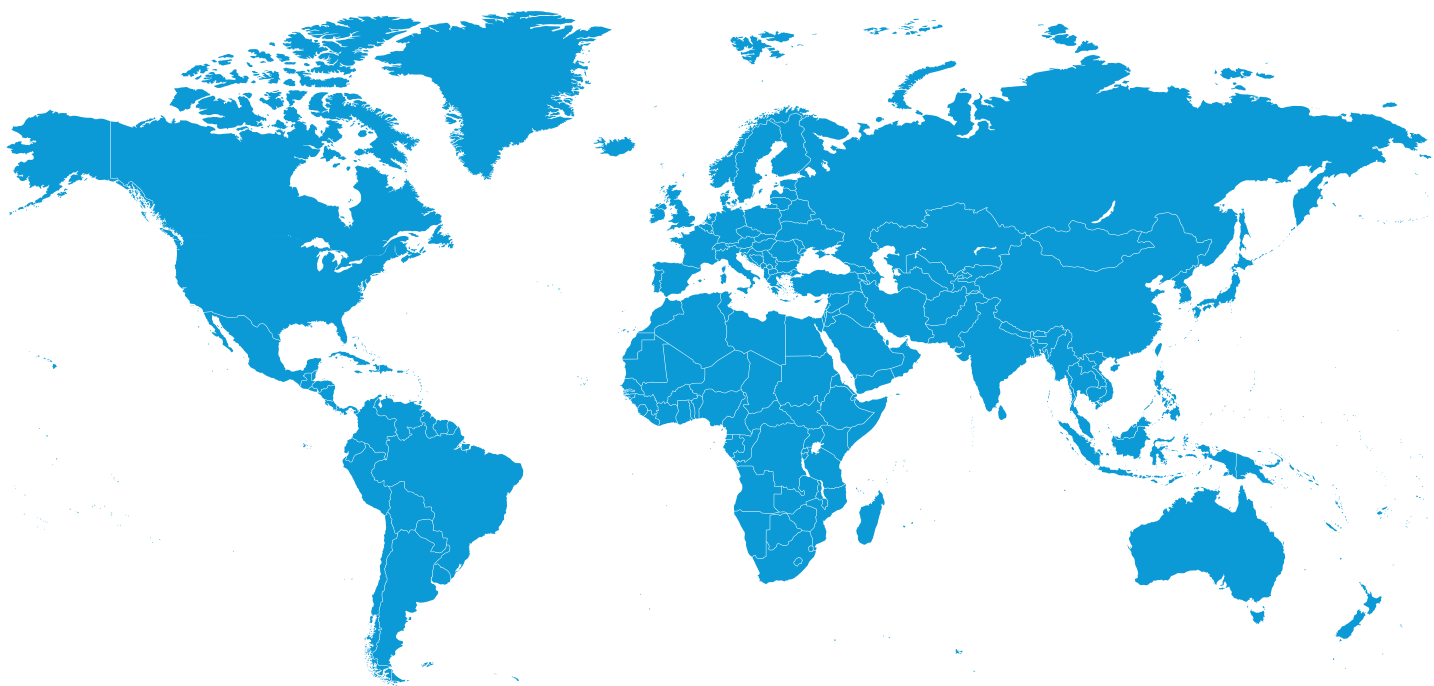
Selected Products

Process licensing
Catalysts sales
Technology services

End Uses

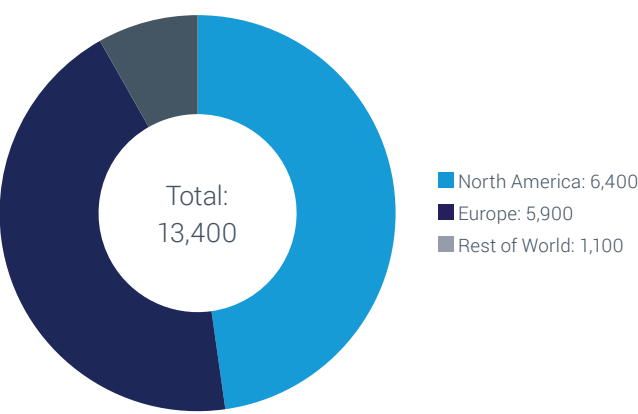
- Polyolefin and chemical manufacturers

Global Presence

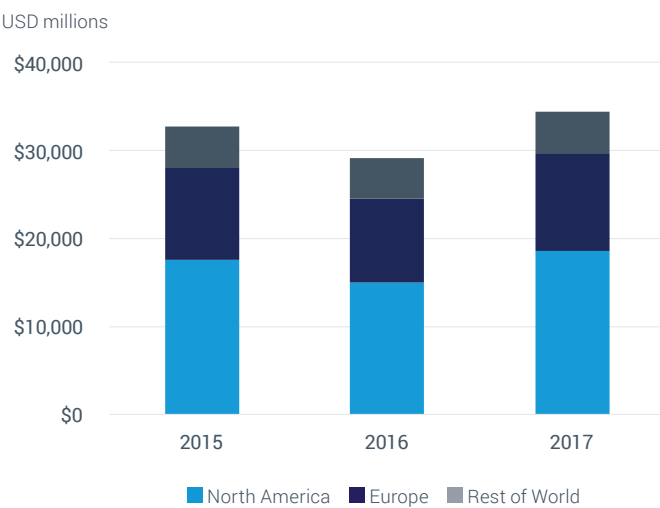


North America	Europe	Asia Pacific	Legend
USA Illinois Iowa Louisiana Michigan New Jersey Ohio Tennessee Texas <i>Houston</i> Mexico	France Germany Italy The Netherlands <i>Rotterdam</i> Poland Spain UK <i>London</i> South America Brazil	Australia China <i>Hong Kong</i> India Malaysia South Korea Thailand	★ Administrative Offices/Headquarters ■ Manufacturing ● Technology Centers ▲ Joint Ventures

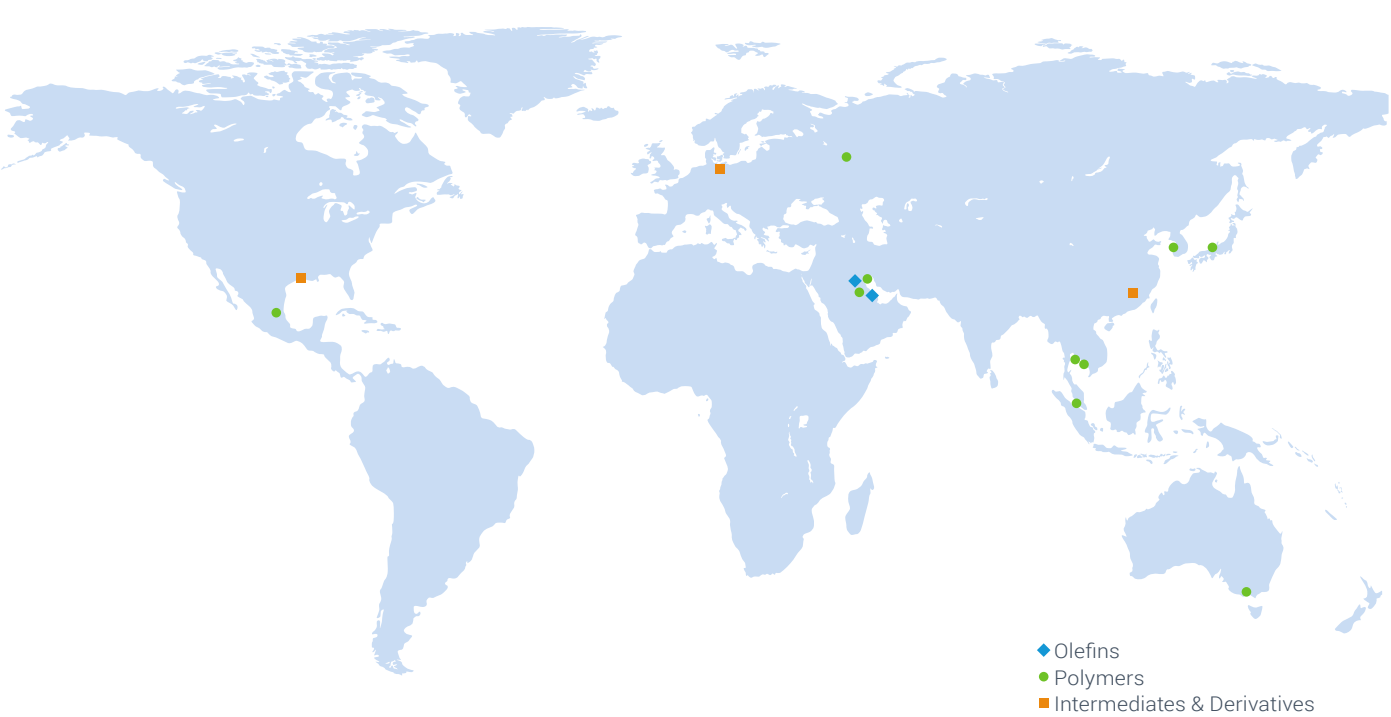
2017 Employees by Region



2015-2017 Sales by Region



Joint Ventures Increase Our Footprint



North America

USA
La Porte Methanol
Covestro PO/SM
Mexico
Indelpro

Europe

Poland
Basell Orlen Polymers
Netherlands
Covestro PO/SM

Middle East

Saudi Arabia
SPC
SEPC
Al Waha

Asia-Pacific

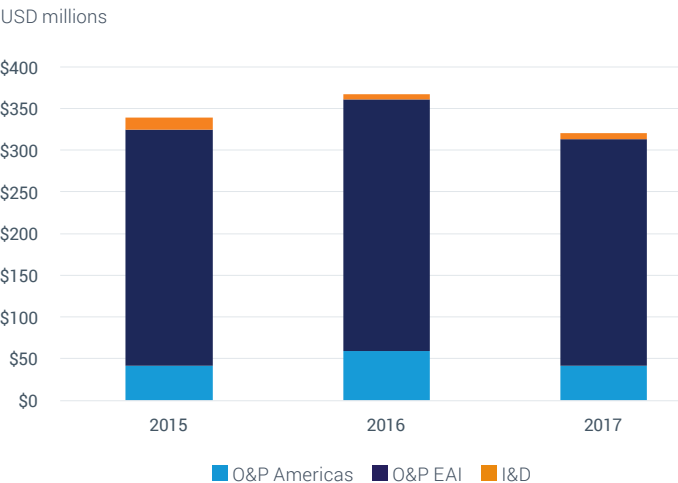
South Korea
PolyMirae
China
Ningbo ZRCC
Thailand
HMC Polymers

Malaysia
PolyPacific
Australia
PolyPacific

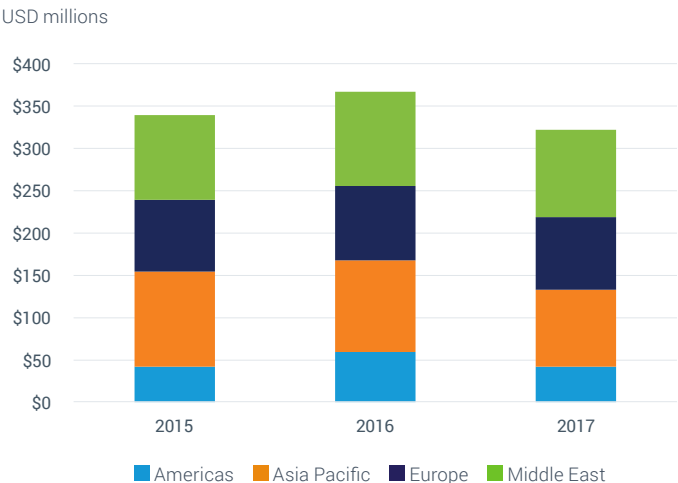
Note: Each dot represents the presence of a business at a site, irrespective of the number of plants/lines the business has at that site.

2015-2017 Joint Venture Equity Income⁽¹⁾

By Segment



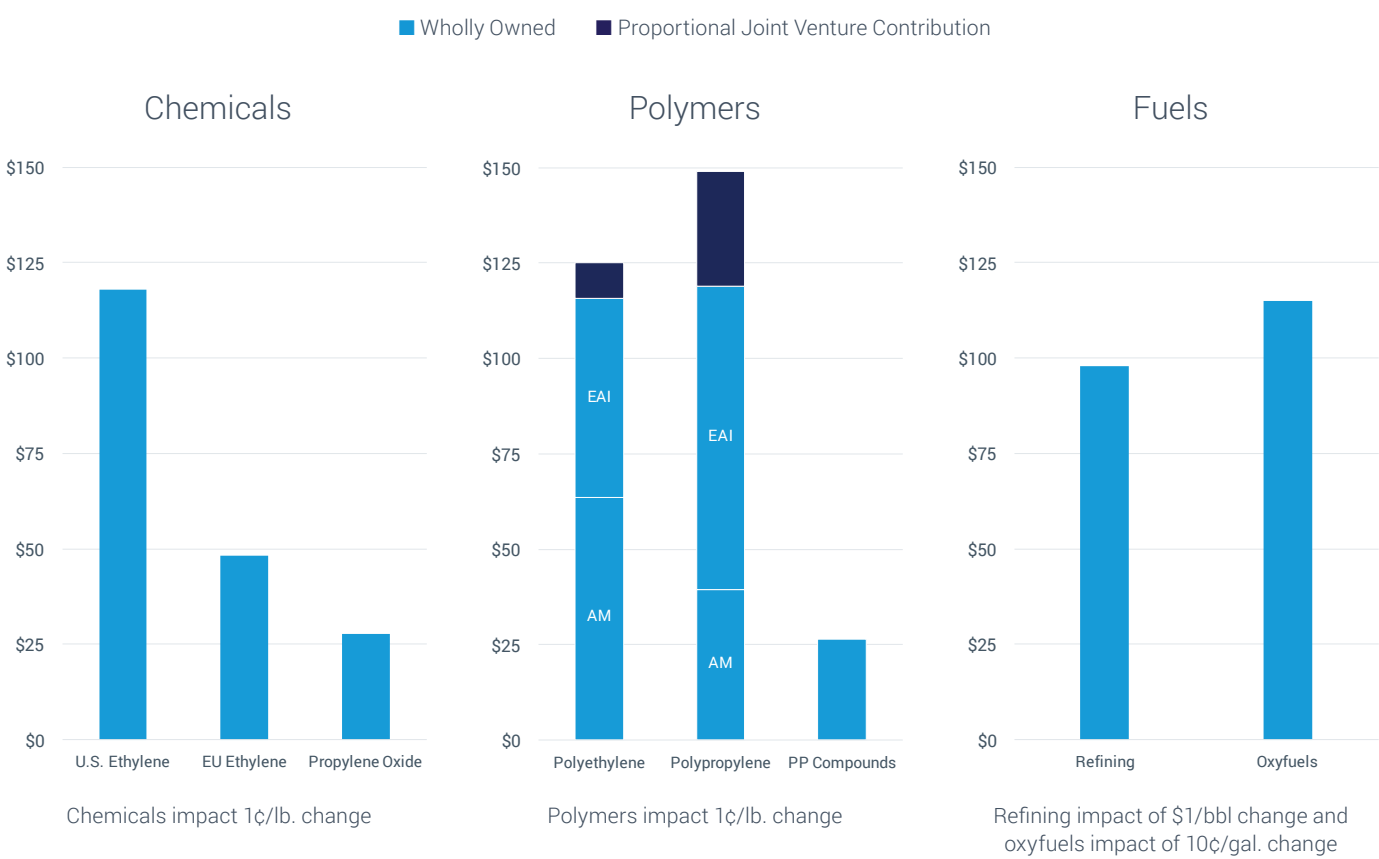
By Region



(1) Does not include income from LYB U.S. and European propylene oxide joint ventures.

Pre-Tax Earnings Leverage

Estimated Pre-Tax Earnings Impact from Change in Margin, USD millions/year⁽¹⁾



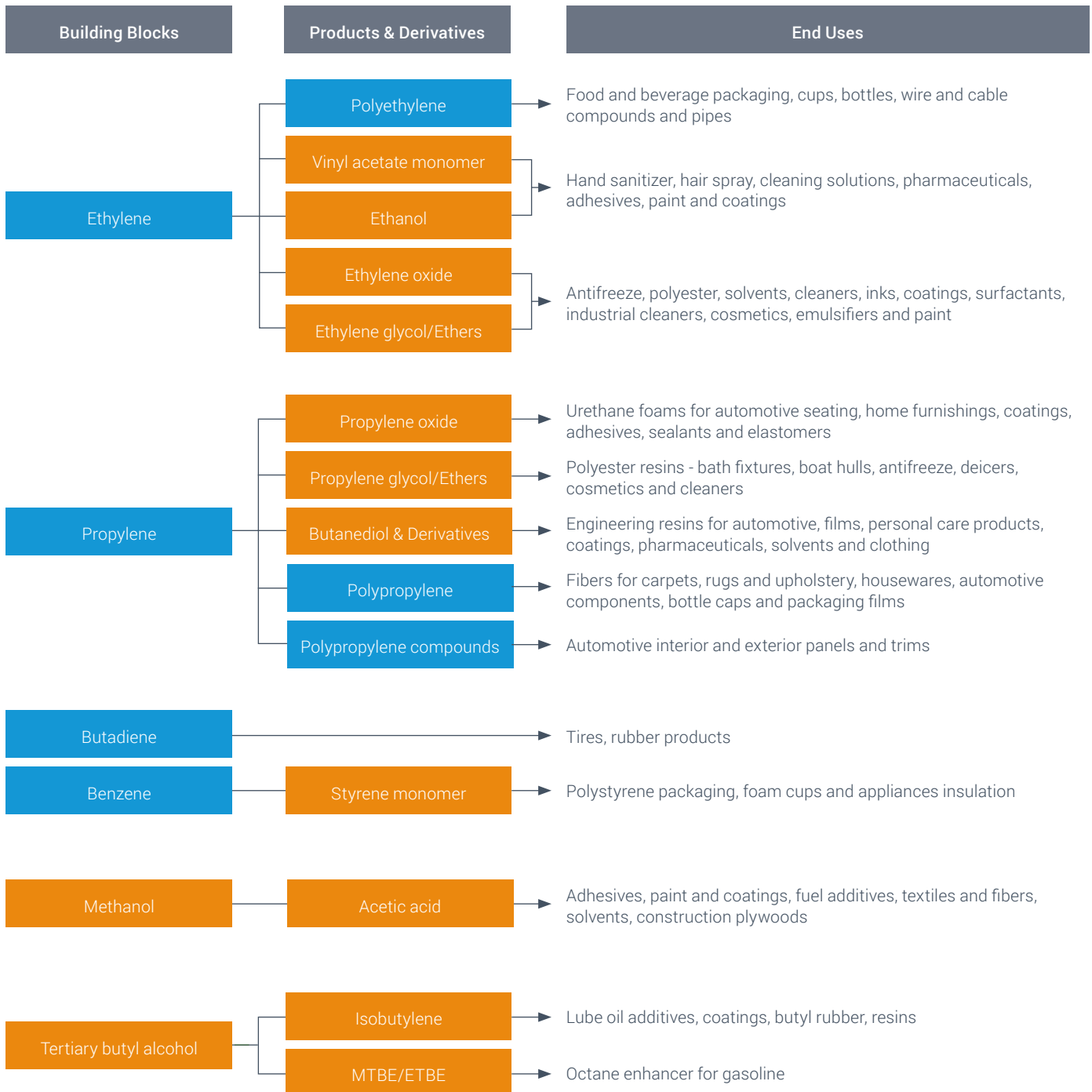
(1) Estimates are calculated using 2017 year-end production capacity, exclusive of specific contract impacts.



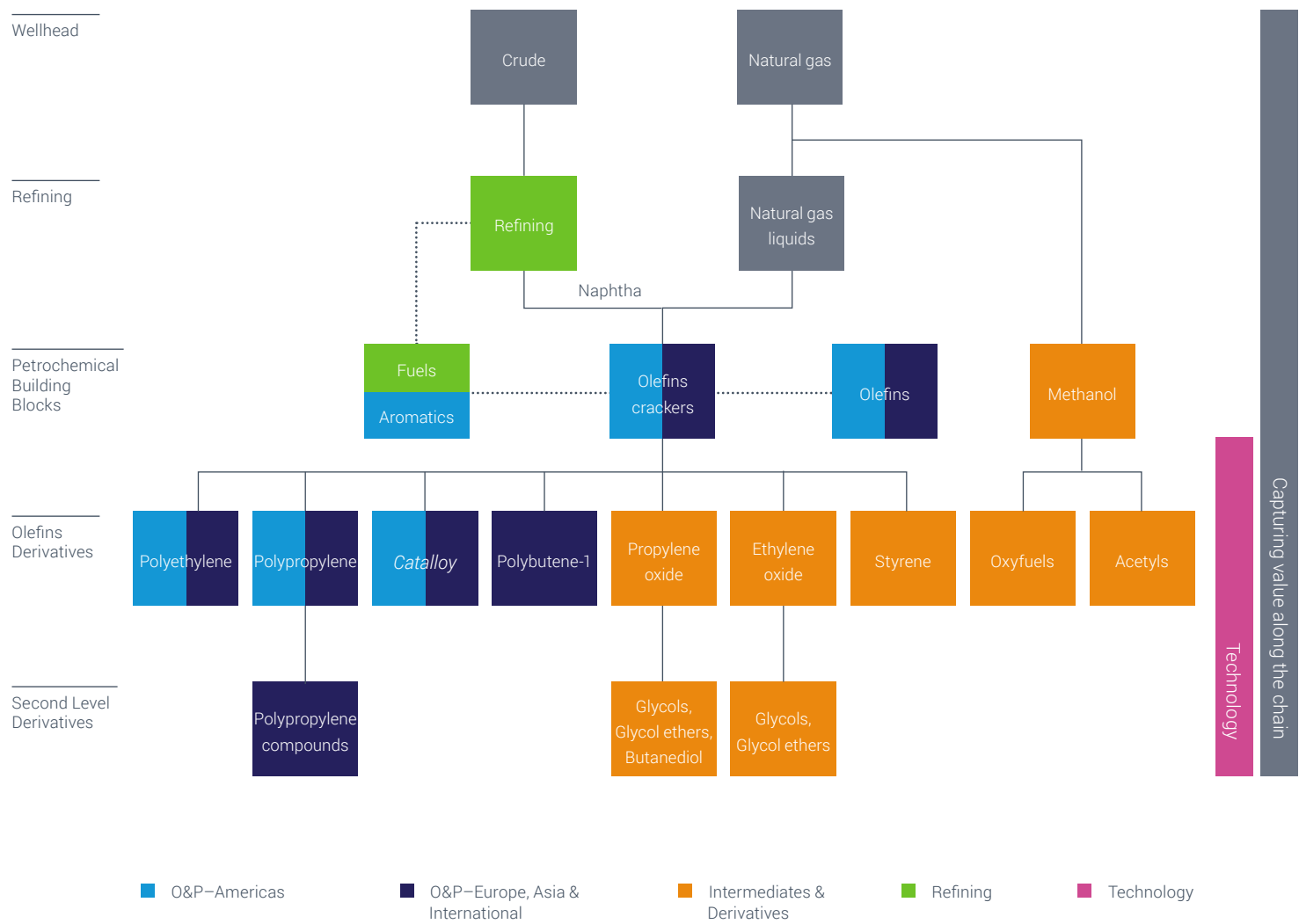
LyondellBasell Products Serve Diverse End Uses

LyondellBasell products are the basic elements used to manufacture countless goods and products that people use every day.

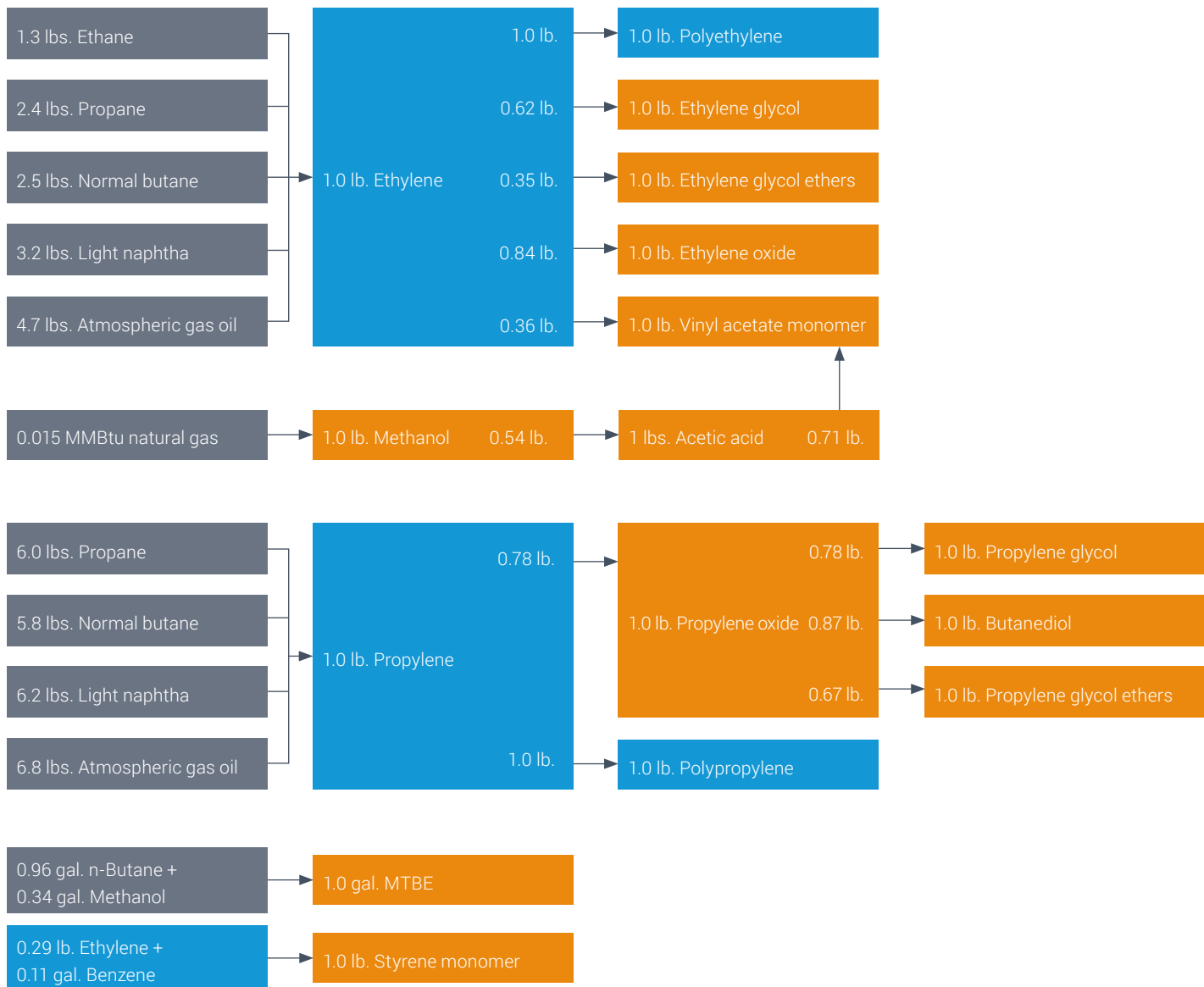
From fresh food packaging, clean fuels and durable textiles to medical applications, construction materials and automotive parts, the uses for LyondellBasell materials are almost unlimited.



Vertically Integrated Portfolio Structure



Major Product Yield Factors



■ Olefins & Polyolefins ■ Intermediates & Derivatives

Olefins and Polyolefins Overview

LyondellBasell is a leading worldwide producer of ethylene, propylene and polyethylene and the world's largest producer of polypropylene. Our polymers are used in extrusion, blow molding and injection molding processes for a wide variety of end markets including food and beverage packaging, construction, wire and cable, and automotive markets. We manage our olefin and polyolefin businesses in two reportable segments: O&P–Americas and O&P–Europe, Asia & International.

Key Advantages

- Products used in a broad range of applications and in products that people use every day with increasing demand in developing markets
- Operate multiple major integrated olefin and olefin derivative sites, which provide cost efficiencies through economies of scale and optimization
- U.S. access to shale gas, low cost NGLs, and the ability to process NGLs up to 90 percent of ethylene production
- Strong global position in polypropylene compound products which are tailor-made to meet the demanding requirements of durable end-use market applications, primarily servicing the automotive, appliance and industrial markets
- Feedstock advantaged joint ventures and differentiated premium grade polyolefin products

Selected Products

- | | |
|---|--|
| <ul style="list-style-type: none"> ■ Olefins <ul style="list-style-type: none"> — Ethylene — Propylene — Butadiene — Benzene ■ Specialty polyolefins <ul style="list-style-type: none"> — Polypropylene compounds — <i>Catalloy</i> — Polybutene-1 | <ul style="list-style-type: none"> ■ Polyolefins <ul style="list-style-type: none"> — Polypropylene — High-density polyethylene — Low-density polyethylene — Linear low-density polyethylene |
|---|--|

Financial Highlights (USD millions)⁽¹⁾

O&P–Americas	2015	2016	2017
Revenues	\$9,964	\$9,077	\$10,400
EBITDA	\$3,661	\$2,877	\$2,982
EBITDA excluding LCM	\$3,821	\$2,906	\$2,982
EBITDA excluding LCM/Revenues	38%	32%	29%
O&P–EAI	2015	2016	2017
Revenues	\$11,576	\$10,579	\$12,263
EBITDA	\$1,825	\$2,067	\$2,282
EBITDA excluding LCM	\$1,855	\$2,067	\$2,282
EBITDA excluding LCM/Revenues	16%	20%	19%

(1) Reconciliations for our non-GAAP measures, including a discussion concerning our "lower of cost or market," or LCM adjustments, can be found beginning on page 37. An explanation of LCM can be found under the "Information Related to Financial Measures" section in the front of this Data Book.

Olefins Production Process

Ethylene and propylene are the primary products from our olefins plants. The basic processing steps in an olefins plant are thermal cracking, quench and compression, and separation. Crackers are typically classified by feedstock type.

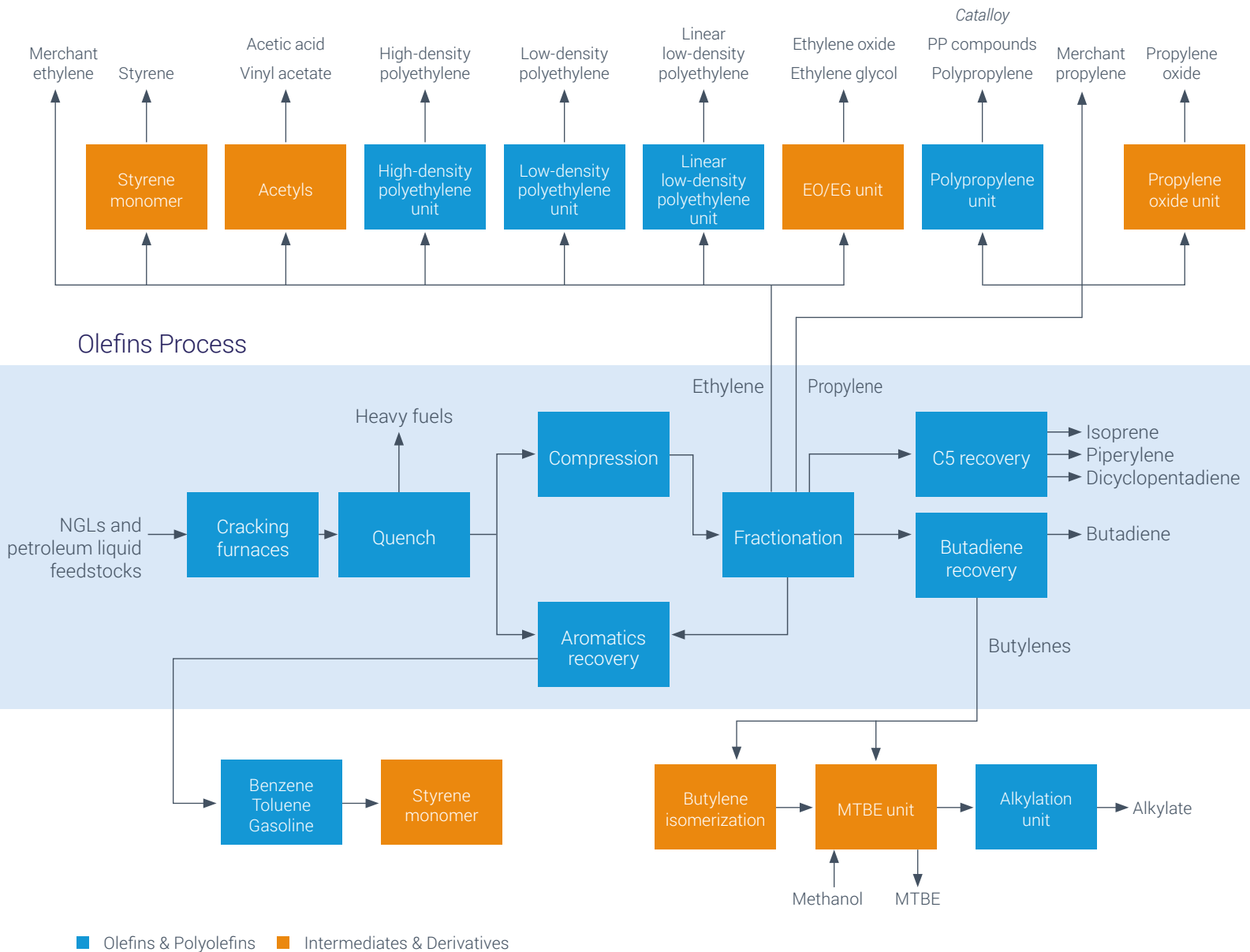
Types of Ethylene Plants

	Gas Crackers	Liquid Crackers	Methanol-to-Olefins	Coal-to-Olefins
Feedstocks	Ethane, Propane, Butane	Naphtha, Oil Gas	Methanol	Coal
Construction Costs	Lower initial construction costs	Higher construction costs (~2x ethane feed plant)	Similar to gas cracker construction costs	Higher construction costs (~2-3x liquid feed plant)
Products	Fewer by-products	Broader, more flexible product slate	Equal amounts of ethylene and propylene	Equal amounts of ethylene and propylene

Corpus Christi, Texas, USA

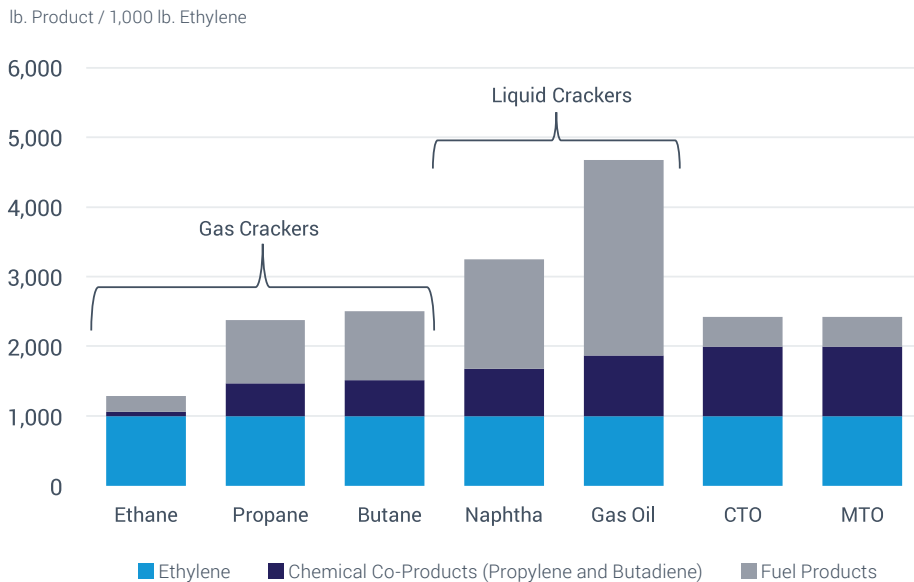


Olefins Production Process and Derivatives Chain



Material Balance and Cost of Ethylene

Ethylene Plant Material Balance (lb. Product/1,000 lb. Ethylene)



In olefins technology, liquid crackers process oil-based feedstocks and produce considerably more co-products such as propylene, butadiene and heavier products than ethane crackers.

Source: IHS Markit

Cash Cost of Ethylene (COE) Production

$$\text{Cash COE (\$/lb.)} = \frac{\text{Feedstock Costs} + \text{Variable \& Fixed Costs} - \text{Coproduct Value}}{\text{Ethylene Production}}$$

The cash COE production is the total manufacturing cost to produce ethylene, taking into consideration the co-product credit values and the capacity utilization.

Example of Calculating Cash COE

(¢/lb. Ethylene by Feedstock)

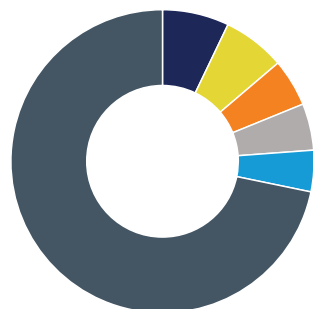
	Ethane	North America Naphtha	Northeast Asia MTO
Feedstock Cost	11	65	88
+ Variable Cost	4	6	10
+ Fixed Cost	3	4	3
- Co-products Credits	(6)	(55)	(43)
Net Ethylene Cost	12	20	58

Source: IHS Markit and LYB; feedstock costs provided by IHS Markit

NOTE: Ethane price ~25¢/gal, Naphtha price ~111¢/gal, Methanol price ~\$325/ton

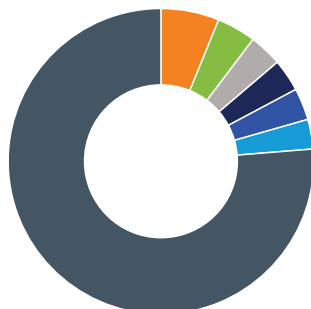
Global Olefins and Polyolefins Capacity Position

Global Ethylene Producers⁽¹⁾
Global Capacity ~380 billion lbs./yr.

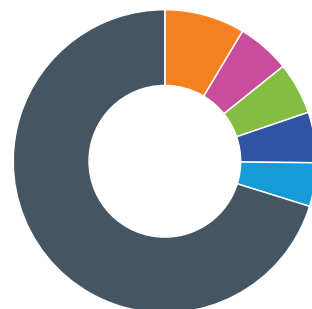


DowDuPont Exxon Mobil Corp. Royal Dutch/Shell
SABIC LyondellBasell TPC Group
SINOPEC CNPC Other

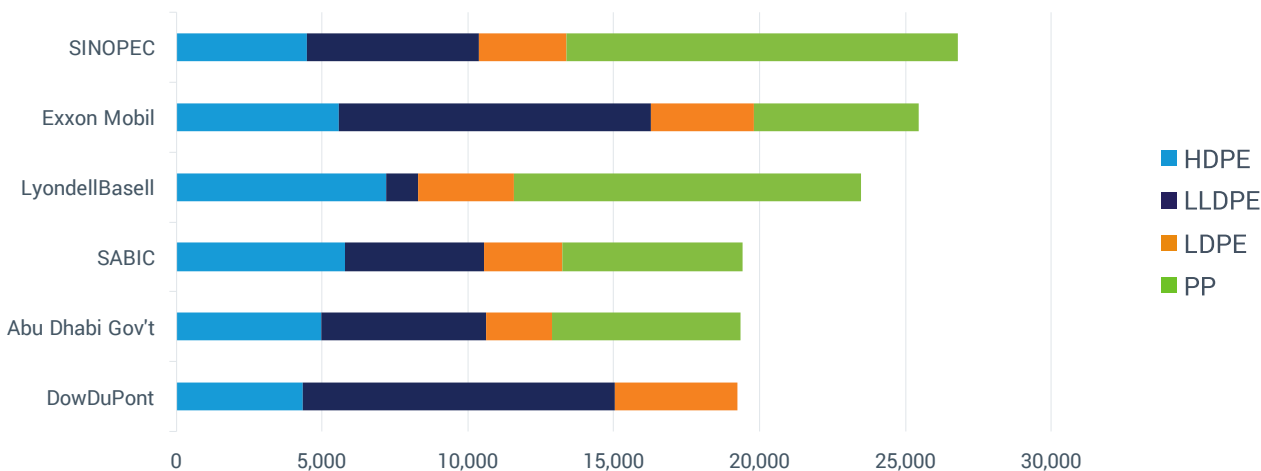
Global Propylene Producers⁽¹⁾
Global Capacity ~280 billion lbs./yr.



Global Butadiene Producers⁽¹⁾
Global Capacity ~33 billion lbs./yr.



LYB: #3 Global Polyolefins (Polyethylene and Polypropylene) Capacity (million lbs.)⁽¹⁾



(1) Source: IHS Markit 2017 industry capacity data and LYB. Capacity ranking includes LYB's share of joint ventures capacity.



Olefins and Polyolefins—Americas

Product Capacities

2017 Annual Capacities, as of year end⁽¹⁾

OLEFINS		
Ethylene	12 billion lbs.	5.4 million MT
Propylene	5.1 billion lbs.	2.3 million MT
Butadiene	0.9 billion lbs.	0.4 million MT
AROMATICS		
Benzene	200 million gals.	0.7 million MT
Toluene	65 million gals.	0.2 million MT
POLYOLEFINS		
Polypropylene	4.0 billion lbs.	1.8 million MT
High-density polyethylene	4.0 billion lbs.	1.8 million MT
Low-density polyethylene	1.3 billion lbs.	0.6 million MT
Linear low-density polyethylene	1.1 billion lbs.	0.5 million MT
SPECIALTY POLYOLEFINS		
Catalloy	0.6 billion lbs.	0.3 million MT

(1) Represents the total annual nameplate capacity, which includes approximately 670 million lbs. of polypropylene owned by third parties through a joint venture arrangement.

Joint Ventures

Name	Location	J. V. Partner	LYB Ownership	Product	Capacity ⁽²⁾	
Indelpro	Mexico	Alfa	49%	Polypropylene	1.3 billion lbs.	0.6 million MT

(2) Represents the joint venture total capacity and not LYB proportional share.



Olefins and Polyolefins—Americas

North American Industry Capacity⁽¹⁾

Product	2017 North American Industry Annual Capacity	LYB Capacity Rank
Ethylene	84 billion lbs.	2nd
Propylene	47 billion lbs.	2nd
Butadiene	5.7 billion lbs.	3rd
Polyethylene	51 billion lbs.	3rd
Polypropylene	20 billion lbs.	1st

(1) Source: IHS Markit 2017 industry capacity data; LYB. Capacity includes LYB's share of joint ventures capacity.

La Porte, Texas, USA



Olefins and Polyolefins—Europe, Asia & International

Product Capacities

2017 Annual Capacities, as of year end⁽¹⁾

OLEFINS		
Ethylene	6.5 billion lbs.	2.9 million MT
Propylene	6.0 billion lbs.	2.7 million MT
Butadiene	0.7 billion lbs.	0.3 million MT
POLYOLEFINS		
Polypropylene	11.8 billion lbs.	5.4 million MT
High-density polyethylene	4.2 billion lbs.	1.9 million MT
Low-density polyethylene	2.8 billion lbs.	1.3 million MT
SPECIALTY POLYOLEFINS		
Polypropylene compounds global	2.8 billion lbs.	1.3 million MT
<i>Catalloy</i>	0.6 billion lbs.	0.3 million MT
PB-1 resins	0.1 billion lbs.	0.05 million MT

(1) Represents total annual nameplate capacity, which includes approximately 1,650 million lbs. of ethylene; approximately 2,500 million lbs. of propylene; approximately 1,010 million lbs. of high-density polyethylene; approximately 780 million lbs. of low-density polyethylene; approximately 4,420 million lbs. of polypropylene; and approximately 150 million lbs. of PP compounds of nameplate capacity owned by third parties either through joint venture arrangements or other contractual relationships. In some situations, the Company and the third party have access to the other's capacity through certain arrangements.

Joint Ventures

Name	Location	J.V. Partner	LYB Ownership	Product	Capacity ⁽²⁾	
Al-Waha	Al-Jubail Industrial City, Saudi Arabia	Sahara Petrochemical Company and others	25%	Propylene	1.0 billion lbs.	0.5 million MT
				Polypropylene	1.0 billion lbs.	0.5 million MT
Basell Orlen Polyolefins	Poland	Orlen	50%	HDPE	0.7 billion lbs.	0.3 million MT
				LDPE	0.2 billion lbs.	0.1 million MT
				Polypropylene	0.9 billion lbs.	0.4 million MT
HMC Polymers	Thailand	PTT	29%	Propylene	0.7 billion lbs.	0.3 million MT
				Polypropylene	1.8 billion lbs.	0.8 million MT
PolyPacific	Australia, Malaysia	Mirlex Pty. Ltd.	50%	PP compounding	0.2 billion lbs.	0.1 million MT
PolyMirae	South Korea	Daelim, SunAllomer	50%	Polypropylene	1.5 billion lbs.	0.7 million MT
SEPC	Al-Jubail Industrial City, Saudi Arabia	Tasnee, Sahara Petrochemical Company	25%	Ethylene	2.2 billion lbs.	1.0 million MT
				Propylene	0.6 billion lbs.	0.3 million MT
				HDPE	0.9 billion lbs.	0.4 million MT
				LDPE	0.9 billion lbs.	0.4 million MT
SPC	Al-Jubail Industrial City, Saudi Arabia	Tasnee	25%	Propylene	1.0 billion lbs.	0.5 million MT
				Polypropylene	1.6 billion lbs.	0.7 million MT
				PP compounding	0.1 billion lbs.	0.04 million MT

(2) Represents the joint venture total capacity, and not LYB proportional share.

Olefins and Polyolefins—Europe, Asia & International

European Industry Capacity⁽¹⁾

Product	2017 Western/Central Europe Industry Annual Capacity	LYB Capacity Rank
Ethylene	55 billion lbs.	5th
Propylene	39 billion lbs.	5th
Butadiene	6.8 billion lbs.	3rd
Polyethylene	35 billion lbs.	1st
Polypropylene	24 billion lbs.	1st

(1) Source: IHS Markit 2017 industry capacity data and LYB. Capacity ranking includes LYB's share of joint ventures capacity.



Intermediates and Derivatives Overview

LyondellBasell's I&D business benefits from leading proprietary technologies for propylene oxide and acetyls production. These provide us with a cost-advantaged position for these products and their derivatives as well as growth opportunities across the globe. We are an industry leader in oxyfuels (MTBE/ETBE), produced from co-products of our propylene oxide process. End uses for I&D products range from personal care products and medical applications to construction materials and automotive components.

Key Advantages

- Technological leader in the manufacture of propylene oxide, using our proprietary propylene oxide/styrene monomer and propylene oxide/tertiary butyl alcohol processes
- Second-largest global producer of propylene oxide and one of the largest producers of styrene monomer, acetic acid and vinyl acetate monomer worldwide
- Ranked number two in global capacity, our oxygenated fuel products are produced from chemical assets that benefit from low cost natural gas and NGLs and their linkage to global gasoline market trends
- Vertically integrated facilities benefiting from optimization opportunities along the entire value chain
- Products such as methanol, acetyls, ethylene oxide and derivatives benefit from low cost natural gas and NGLs
- Historically, a segment with steady earnings

Selected Products

- Propylene oxide
- Propylene oxide co-products
 - Styrene monomer
 - TBA derivative isobutylene
- Propylene oxide derivatives
 - Propylene glycol
 - Propylene glycol ethers
 - Butanediol
- Oxyfuels
- Acetyls
 - Methanol
 - Acetic acid
 - Vinyl acetate monomer
- Ethylene derivatives
 - Ethylene oxide
 - Ethylene glycol
 - Ethylene oxide derivatives

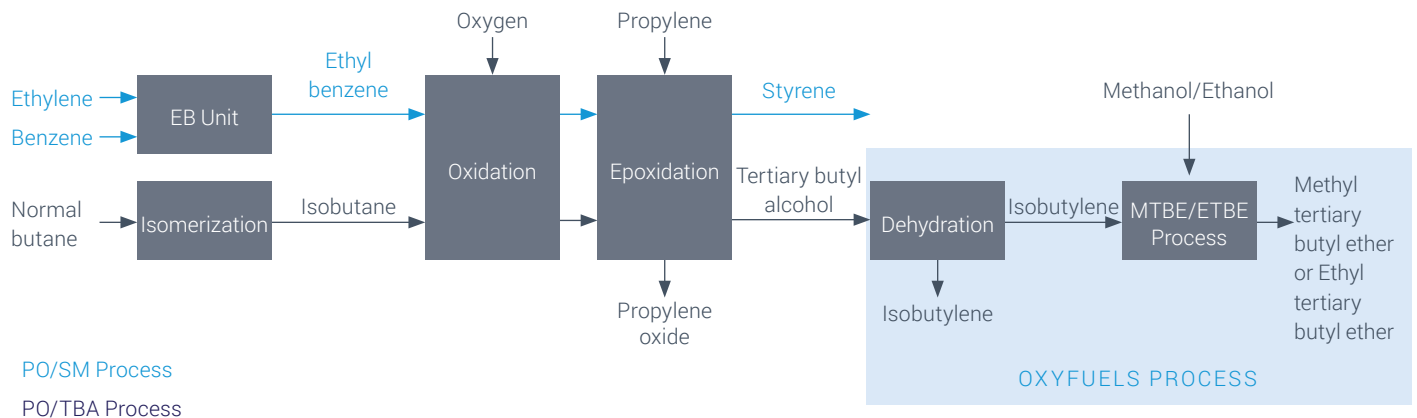
Financial Highlights (USD millions)⁽¹⁾

	2015	2016	2017
Revenues	\$7,772	\$7,226	\$8,472
EBITDA	\$1,475	\$1,333	\$1,490
EBITDA excluding LCM	\$1,656	\$1,333	\$1,490
EBITDA excluding LCM / Revenues	21%	18%	18%

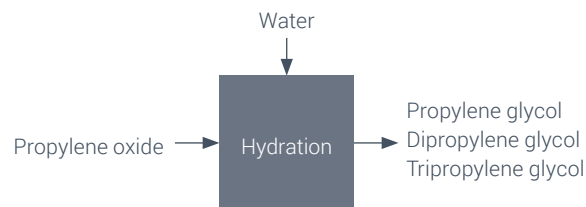
(1) Reconciliations for our non-GAAP measures, including a discussion concerning our "lower of cost or market," or LCM adjustments, can be found beginning on page 37. An explanation of LCM can be found under the "Information Related to Financial Measures" section in the front of this Data Book.

Intermediates and Derivatives Production Processes

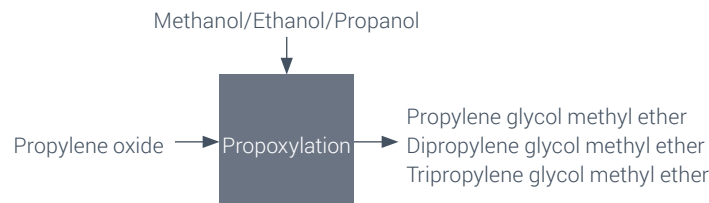
Propylene Oxide Process



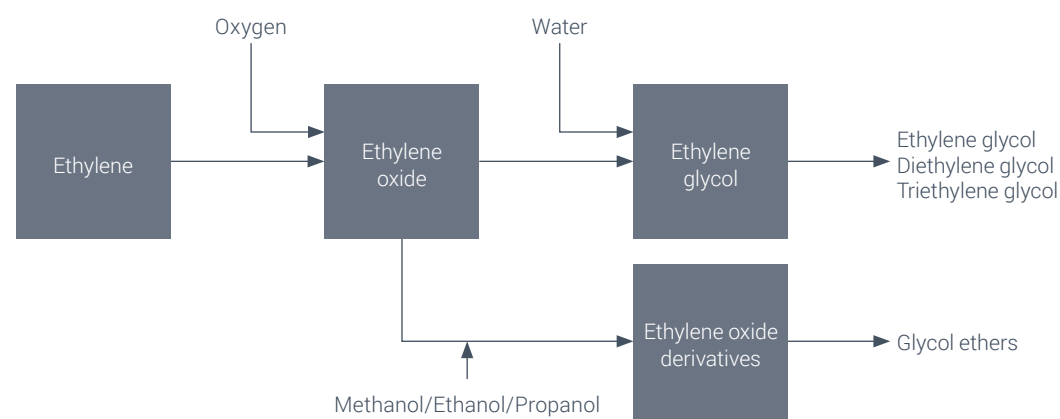
Propylene Glycol Production



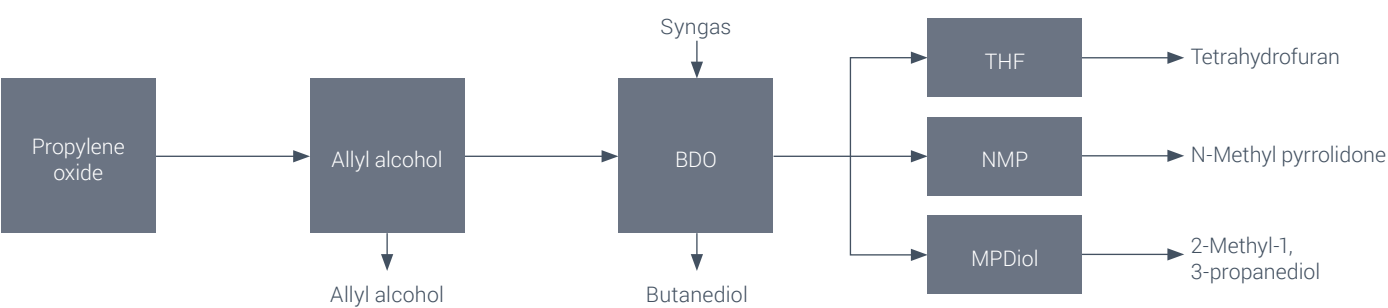
Propylene Glycol Ethers Production



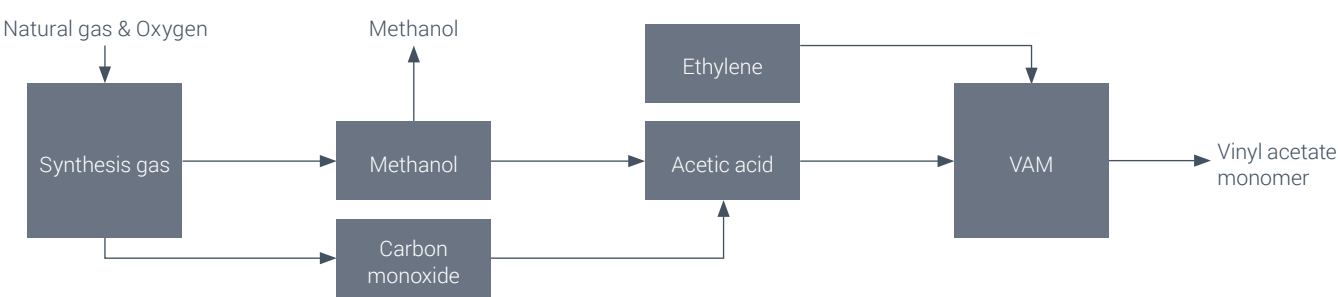
Ethylene Oxide/Ethylene Glycol



Butanediol & Derivatives



Acetyls



Intermediates and Derivatives

Product Capacities

2017 Annual Capacity, as of year end⁽¹⁾

PROPYLENE OXIDE		
Propylene oxide	5.1 billion lbs.	2.3 million MT
PROPYLENE OXIDE CO-PRODUCTS		
Styrene monomer	5.9 billion lbs.	2.7 million MT
Tertiary butyl alcohol	6.1 billion lbs.	2.8 million MT
Oxyfuels	75 thousand BPD	3.2 million MT
PROPYLENE OXIDE DERIVATIVES		
Propylene glycol	1.0 billion lbs.	0.4 million MT
Propylene glycol ethers	0.5 billion lbs.	0.2 million MT
Butanediol	0.5 billion lbs.	0.2 million MT
ACETYLs		
Methanol	0.5 billion gals.	1.4 million MT
Acetic acid	1.2 billion lbs.	0.6 million MT
Vinyl acetate monomer	0.7 billion lbs.	0.3 million MT
ETHYLENE DERIVATIVES		
Ethylene oxide	0.9 billion lbs.	0.4 million MT
Ethylene glycol	0.7 billion lbs.	0.3 million MT
Other ethylene oxide derivatives – ethers, amines	0.3 billion lbs.	0.1 million MT
Ethanol	0.05 billion gals.	0.2 million MT

Joint Ventures

Name	Location	J.V. Partners	LYB Ownership	Product	Capacity ⁽²⁾	
U.S. PO Joint Venture	Channelview, TX Bayport, TX	Covestro	⁽³⁾	Propylene oxide	2.7 billion lbs	1.2 million MT
European PO Joint Venture	Rotterdam, The Netherlands	Covestro	50%	Propylene oxide	0.7 billion lbs	0.3 million MT
			50%	Styrene monomer	1.5 billion lbs	0.7 million MT
Ningbo ZRCC LCC Ltd.	Ningbo, China	ZRCC	19%	Propylene oxide	0.6 billion lbs	0.3 million MT
			0%	Styrene monomer	1.3 billion lbs	0.6 million MT
La Porte Methanol	La Porte, TX	Linde	81%	Methanol	0.2 billion gals	0.5 million MT

(1) Represents total nameplate capacity which includes approximately 2,300 million lbs. of propylene oxide; approximately 2,100 million lbs. of styrene monomer; approximately 110 million lbs. of propylene glycol ethers; and approximately 40 million gals. of methanol production owned by third parties through joint venture relationships. Ethylene oxide capacity presented is ethylene oxide equivalent. Oxyfuels are produced from the propylene oxide/tertiary butyl alcohol process and the oxyfuels capacity is not additive to the tertiary butyl alcohol capacity.

(2) Represents the joint venture total capacity and not LYB proportional capacity.

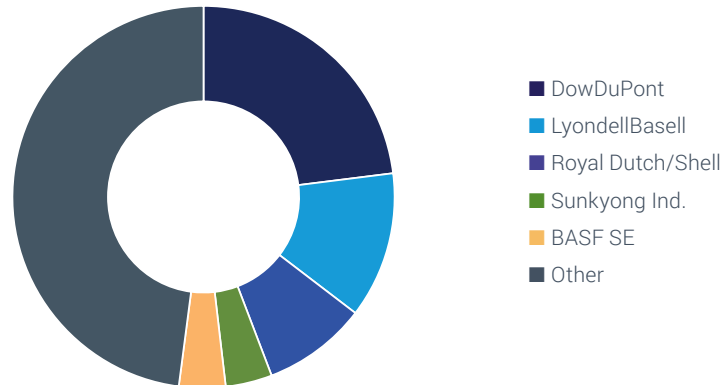
(3) The parties' rights in the joint venture are based on off take volumes as opposed to ownership percentages. Covestro's interest represents ownership of an in-kind portion of the propylene oxide production of 1.5 billion lbs. per year. LYB takes, in-kind, the remaining propylene oxide production and all co-product (styrene monomer and tertiary butyl alcohol) production.

Intermediates and Derivatives

Global Capacity⁽¹⁾

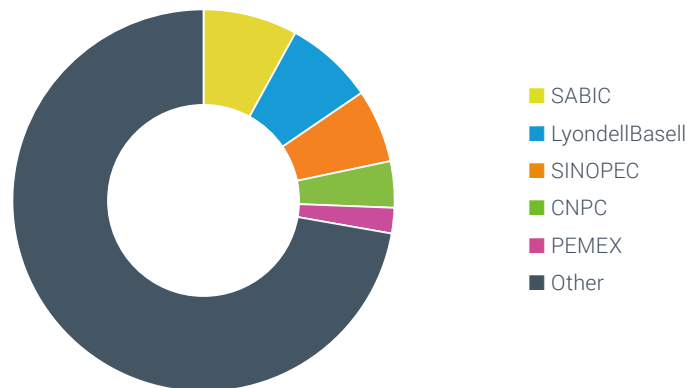
Global Propylene Oxide

Global Capacity ~22 billion lbs./yr.



Global Oxyfuels

Global Capacity ~990 thousand bbl/day



(1) Source: IHS Markit 2017 industry capacity data and LYB. Capacity ranking includes LYB's share of joint ventures capacity.

Bayport, Texas, USA



Refining Overview

LyondellBasell's Refining segment processes a wide range of cost-advantaged crude oils, including heavy high-sulfur crudes. Refined products include reformulated gasoline, jet fuel, ultra-low sulfur diesel and heating oil. Strategically located on the U.S. Gulf Coast near interstate pipelines and the Port of Houston, the refinery benefits from access to multiple product markets. LyondellBasell has recently broadened the feedstock flexibility of the refinery to process crudes with increased gravity ranges including lighter U.S. crude oil and heavy crude oil from Canada.

Key Advantages

- Operational flexibility to process a wide array of feedstock grades, including heavy and light high-sulfur crude oil
- Strategically located on the U.S. Gulf Coast with access to interstate pipelines and the Port of Houston, providing access to multiple product markets and lower-cost feedstocks

Selected Products

- Gasoline
- Ultra low-sulfur diesel
- Jet fuel
- Lube oils
- Aromatics

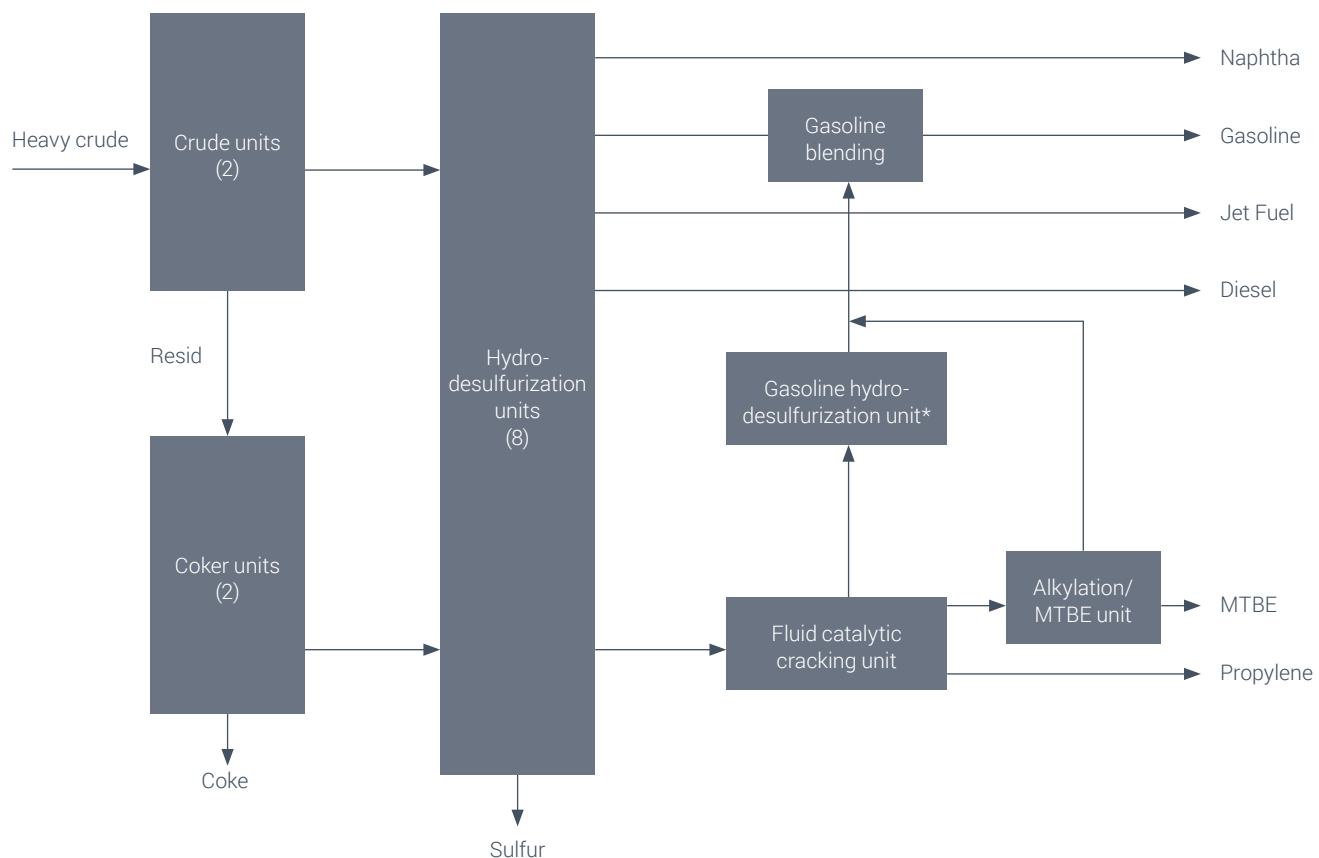
Financial Highlights (USD millions)⁽¹⁾

	2015	2016	2017
Revenues	\$6,557	\$5,135	\$6,848
EBITDA	\$342	\$72	\$157
EBITDA, excluding LCM	\$519	\$72	\$157
EBITDA excluding LCM/Revenues	8%	1%	2%

(1) Source: IHS Markit 2017 industry capacity data and LYB. Capacity ranking includes LYB's share of joint ventures capacity.



Simplified Refining Process and Capacities



* Capable of meeting the Tier III sulfur specification (10 ppm)

Product Capacities

2017 Annual Capacities, as of year end

HOUSTON REFINERY	BBL/DAY	PRIMARY USES
Crude distillation	268,000	N/A
Gasoline and components	120,000	Automotive fuel
Ultra low-sulfur diesel	95,000	Diesel fuel
Jet fuel	25,000	Aviation fuel
Naphtha	30,000	Reformer/Chemical plant feed
Lube oils	4,000	Industrial lube oils
Aromatics	7,000	Intermediate chemicals

Technology Overview

Our Technology segment develops and licenses industry-leading polyolefin process technologies and a portfolio of selected chemical technologies. It also provides associated engineering and other technical support services. The segment develops, manufactures and sells polyolefin catalysts. We market our process technologies and our polyolefin catalysts to external customers and also use them in our manufacturing operations.

Key Advantages

- Leading producer of polypropylene catalysts
- Only licensor offering process technologies for the world-scale production of all polypropylene and polyethylene product families, as well as a diversified portfolio of chemical technologies.
- Global leader in the development and licencing of polyolefin processes and related catalyst for the production of polyethylene and polypropylene.

Selected Products

- Polypropylene processes
 - *Spheripol*
 - *Spherizone*
- Polyethylene processes
 - *Lupotech*
 - *Spherilene*
 - *Hostalen*
- Polyolefin catalysts
 - *Avant*
- Chemical processes
 - *Trans4m*
S, BD, C5 for olefins conversion and recovery
 - *Glacido⁽¹⁾*
Acetic acid technology
 - *Vacido*
Vinyl acetate monomer technology
 - *Trans4m*
BTX for aromatics extraction

(1) Restricted offering

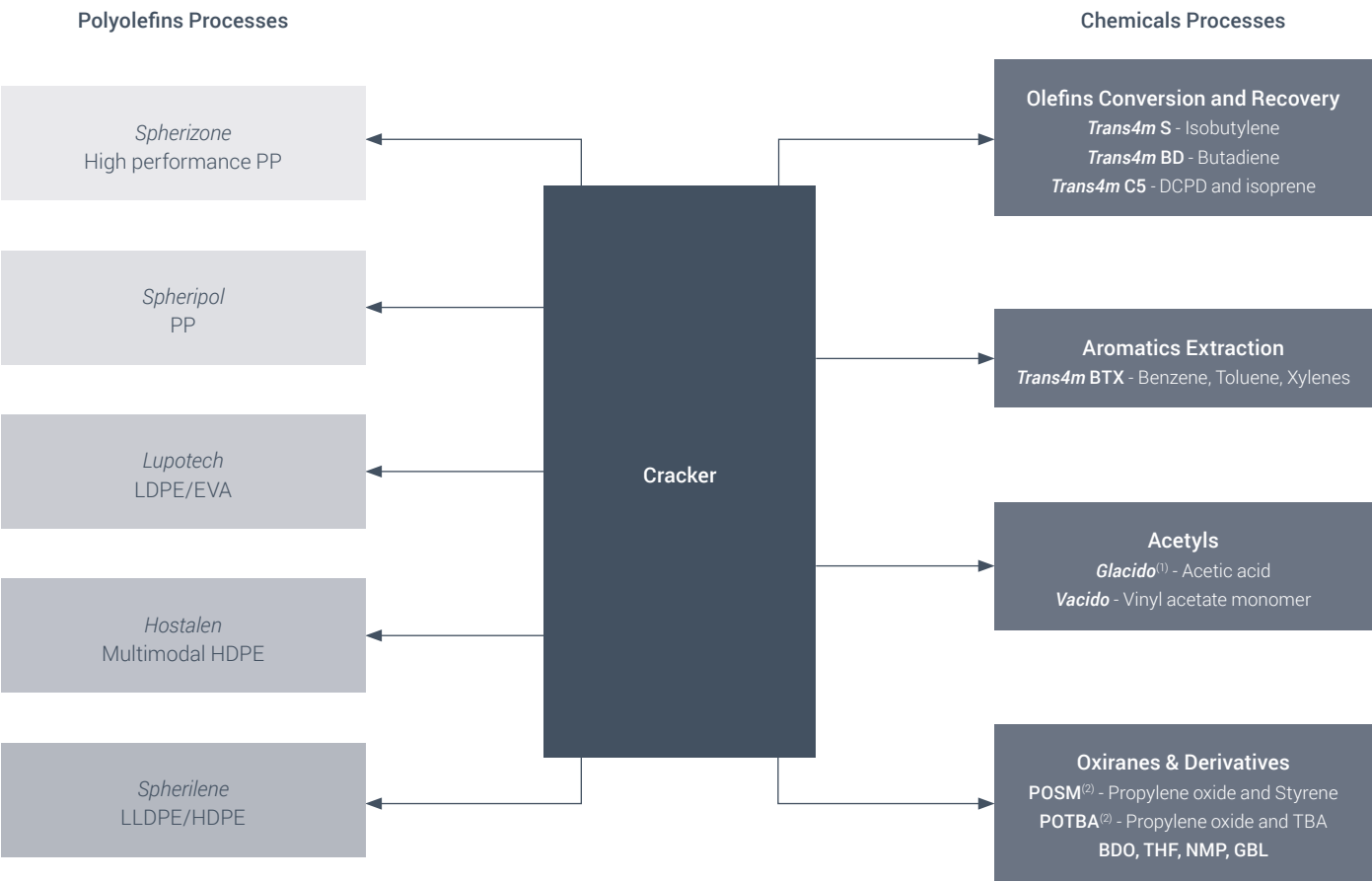
Financial Highlights (USD millions)

	2015	2016	2017
Revenues	\$465	\$479	\$450
EBITDA	\$243	\$262	\$223
EBITDA / Revenues	52%	55%	50%



Hyperzone Pilot Plant, Wesseling, Germany

Comprehensive Portfolio of Licensed Technologies



(1) Restricted offering
(2) Available to LYB joint ventures only

APPENDIX

We make chemicals the
world counts on



Glossary of Acronyms

Acronym	Definition
Bbl	Barrel
BDO	Butanediol
BPD	Barrels per day
BTU	British thermal unit
COE	Cost of Ethylene
DCPD	Dicyclopentadiene
EAI	Europe, Asia & International
EB	Ethyl benzene
EBITDA	Earnings before interest, taxes, depreciation & amortization
EG	Ethylene glycol
EO	Ethylene oxide
EPS	Earnings per share
ETBE	Ethyl tertiary butyl ether
EU	Europe
EVA	Ethylene vinyl acetate
GAAP	Generally accepted accounting principles
Gal.	Gallon
GBL	Gamma-butyrolactone
HDPE	High-density polyethylene
I&D	Intermediates & Derivatives
JV	Joint venture
Lb.	Pound

Acronym	Definition
LCM	Lower of cost or market
LDPE	Low-density polyethylene
LIFO	Last-in, first-out
LLDPE	Linear low-density polyethylene
MPDiol	2-Methyl-1, 3-propanediol
MT	Metric ton
MTBE	Methyl tertiary butyl ether
NGL	Natural gas liquid
NMP	N-methyl pyrrolidone
O&P	Olefins & Polyolefins
PB-1	Polybutene-1
PE	Polyethylene
PO	Propylene oxide
PO/SM	Propylene oxide/Styrene monomer
PO/TBA	Propylene oxide/Tertiary butyl alcohol
PP	Polypropylene
SM	Styrene monomer
TBA	Tertiary butyl alcohol
THF	Tetrahydrofuran
U.S.	United States
USD	U.S. dollars
VAM	Vinyl acetate monomer

Key Benchmark Prices and Margins

For the Years Ended December 31,

Olefins and Polyolefins – Americas	2015	2016	2017
Benchmark Market Prices (\$0.01 per pound unless otherwise indicated)			
West Texas Intermediate crude oil (USD per bbl)	48.71	43.56	50.85
Light Louisiana Sweet (LLS) crude oil (USD per bbl)	52.36	45.03	54.02
Houston Ship Channel natural gas (USD per million BTUs)	2.57	2.45	2.97
U.S. weighted average cost of ethylene production	10.1	11.7	14.2
U.S. ethylene	31.7	30.7	32.6
U.S. polyethylene (high density)	63.6	57.6	61.1
U.S. propylene	39.0	34.4	44.7
U.S. polypropylene (homopolymer)	62.8	61.4	63.5
Olefins and Polyolefins – EAI			
Benchmark Market Prices (€0.01 per pound)			
Western Europe weighted average cost of ethylene production	20.8	19.8	21.1
Western Europe ethylene	43.6	41.2	46.1
Western Europe polyethylene (high density)	56.0	56.0	57.9
Western Europe propylene	38.5	29.8	38.1
Western Europe polypropylene (homopolymer)	54.7	49.3	58.2
Intermediates and Derivatives			
Benchmark Market Margins (\$0.01 per gallon)			
MTBE - Northwest Europe	85.1	57.2	52.9
Refining			
Benchmark Market Margins (\$ per barrel)			
Light crude oil - 2-1-1	14.04	10.73	13.54
Light crude oil - Maya differential	8.26	8.51	7.02

Source: IHS Markit, Bloomberg, LYB

Note: Benchmark market prices for U.S. and Western Europe polyethylene and polypropylene reflect discounted prices.

Consolidated Statements of Income

	For the Years Ended December 31,		
Millions of U.S. dollars, except earnings per share	2015	2016	2017
Sales and Other Operating Revenues			
Trade	\$31,930	\$28,454	\$33,705
Related parties	805	729	779
	32,735	29,183	34,484
Operating Costs and Expenses			
Cost of sales	25,683	23,191	28,059
Selling, general and administrative expenses	828	833	859
Research and development expenses	102	99	106
	26,613	24,123	29,024
Operating Income	6,122	5,060	5,460
Interest expense	(310)	(322)	(491)
Interest income	33	17	24
Other income, net	25	111	179
Income from continuing operations before equity investments and income taxes	5,870	4,866	5,172
Income from equity investments	339	367	321
Income from continuing operations before income taxes	6,209	5,233	5,493
Provision for income taxes	1,730	1,386	598
Income from continuing operations	4,479	3,847	4,895
Loss from discontinued operations, net of tax	(5)	(10)	(18)
Net Income	4,474	3,837	4,877
Net (income) loss attributable to non-controlling interests	2	(1)	2
Net income attributable to the Company shareholders	4,476	3,836	4,879
Earnings Per Share:			
Net Income (Loss) Attributable to the Company Shareholders			
Basic:			
Continuing operations	\$9.63	\$9.17	\$12.28
Discontinued operations	(0.01)	(0.02)	(0.05)
	\$9.62	\$9.15	\$12.23
Diluted:			
Continuing operations	\$9.60	\$9.15	\$12.28
Discontinued operations	(0.01)	(0.02)	(0.05)
	\$9.59	\$9.13	\$12.23

Consolidated Balance Sheets

	December 31,		
Millions of U.S. dollars, except shares and par value data	2015	2016	2017
Assets			
Current assets			
Cash and cash equivalents	\$924	\$875	\$1,523
Restricted cash	7	3	5
Short-term investments	1,064	1,147	1,307
Accounts receivable:			
Trade, net	2,363	2,716	3,359
Related parties	154	126	180
Inventories	4,051	3,809	4,217
Prepaid expenses and other current assets	1,226	923	1,147
Total current assets	9,789	9,599	11,738
Property, plant and equipment, net	8,991	10,137	10,997
Investments and long-term receivables:			
Investment in PO joint ventures	397	415	420
Equity investments	1,608	1,575	1,635
Other investments and long-term receivables	122	20	17
Goodwill	536	528	570
Intangible assets, net	640	550	568
Other assets	674	618	261
Total assets	\$22,757	\$23,442	\$26,206
Liabilities and Equity			
Current liabilities:			
Current maturities of long-term debt	\$4	\$2	\$2
Short-term debt	353	594	68
Accounts payable:			
Trade	1,627	2,028	2,258
Related parties	555	501	637
Accrued liabilities	1,810	1,415	1,812
Total current liabilities	4,349	4,540	4,777
Long-term debt	7,671	8,385	8,549
Other liabilities	2,036	2,113	2,275
Deferred income taxes	2,127	2,331	1,655
Commitments and contingencies			
Stockholders' equity:			
Ordinary shares, €0.04 par value, 1,275 million shares authorized; 440,150,069; 404,046,331; and 394,512,054 shares outstanding, respectively	31	31	31
Additional paid-in capital	10,202	10,191	10,206
Retained earnings	9,841	12,282	15,746
Accumulated other comprehensive income loss	(1,438)	(1,511)	(1,285)
Treasury stock, at cost, 138,285,201; 174,389,139; and 183,928,109 ordinary shares, respectively	(12,086)	(14,945)	(15,749)
Total Company share of stockholders' equity	6,550	6,048	8,949
Non-controlling interests	24	25	1
Total equity	6,574	6,073	8,950
Total liabilities and equity	\$22,757	\$23,442	\$26,206

Consolidated Statements of Cash Flows

For the Years Ended December 31,

Millions of U.S. dollars	2015	2016	2017
Cash Flows from Operating Activities			
Net income	\$4,474	\$3,837	\$4,877
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation and amortization	1,047	1,064	1,174
Amortization of debt-related costs	16	16	15
Charges related to repayment of debt	-	-	49
Share-based compensation	53	38	55
Inventory valuation adjustment	548	29	-
Equity investments—			
Equity income	(339)	(367)	(321)
Distribution of earnings, net of tax	285	385	309
Deferred income taxes	181	357	(587)
Gain on sales of business and equity method investments	-	(84)	(108)
Changes in assets and liabilities that provided (used) cash:			
Accounts receivable	780	(383)	(521)
Inventories	(240)	123	(237)
Accounts payable	(786)	383	165
Other, net	(177)	208	336
Net cash provided by operating activities	5,842	5,606	5,206
Cash flows from investing activities:			
Expenditures for property, plant and equipment	(1,440)	(2,243)	(1,547)
Payments for repurchase agreements	(397)	(674)	(512)
Proceeds from repurchase agreements	350	685	381
Purchases of available-for-sale securities	(2,073)	(688)	(653)
Proceeds from sales and maturities of available-for-sale securities	2,489	674	499
Purchases of held-to-maturity securities	-	(76)	-
Proceeds from maturities of held-to-maturity securities	-	-	75
Purchases of business, equity method investment and non-controlling interest	-	(65)	(21)
Net proceeds from sales of business and equity method investment	-	209	155
Proceeds from settlement of net investment hedges	-	1,295	609
Payments for settlement of net investment hedges	-	(1,356)	(658)
Other, net	25	(62)	(84)
Net cash used in investing activities	(1,046)	(2,301)	(1,756)
Cash flows from financing activities:			
Repurchases of Company ordinary shares	(4,656)	(2,938)	(866)
Dividends paid	(1,410)	(1,395)	(1,415)
Issuance of long-term debt	984	812	990
Repayment of long-term debt	-	-	(1,000)
Debt extinguishment costs	-	-	(65)
Net repayments of proceeds from commercial paper	61	177	(493)
Payments of debt issuance costs	(16)	(5)	(8)
Other, net	187	-	(2)
Net cash used in financing activities	(4,850)	(3,349)	(2,859)
Effect of exchange rate changes on cash	(48)	(9)	59
Increase (decrease) in cash and cash equivalents and restricted cash	(102)	(53)	650
Cash and cash equivalents and restricted cash at beginning of period	1,033	931	878
Cash and cash equivalents and restricted cash at end of period	\$931	\$878	\$1,528
Supplemental Cash Flow Information:			
Interest paid, net of capitalized interest	\$299	\$313	\$333
Net income taxes paid	\$1,417	\$741	\$1,044

Reconciliation of Net Income to EBITDA

	For the Years Ended December 31,		
USD millions	2015	2016	2017
Net Income	\$4,474	\$3,837	\$4,877
Loss from Discontinued Operations, Net of Tax	5	10	18
LCM Adjustments, After Tax	351	18	-
Income from Continuing Operations Excluding LCM Adjustments	4,830	3,865	4,895
Less:			
LCM Adjustments, After Tax	(351)	(18)	-
Income from Continuing Operations	4,479	3,847	4,895
Provision for Income Taxes	1,730	1,386	598
Depreciation and Amortization	1,047	1,064	1,174
Interest Expense, Net	277	305	467
Add:			
LCM Adjustments, Before Tax	548	29	-
EBITDA Excluding LCM Adjustments	\$8,081	\$6,631	\$7,134
Less:			
LCM Adjustments, Before Tax	(548)	(29)	-
EBITDA	\$7,533	\$6,602	\$7,134

Reconciliation of Free Cash Flow to Net Cash Provided by Operating Activities

For the Year Ended December 31,

USD millions	2017
Free Cash Flow	\$3,659
Add:	
Capital Expenditures	1,547
Net Cash Provided by Operating Activities	\$5,206

Reconciliation of Ratio of Total Debt to EBITDA and EBITDA Excluding LCM

December 31,

USD millions	2015	2016	2017
Current Maturities of Long-Term Debt	\$4	\$2	\$2
Short-Term Debt	353	594	68
Long-Term Debt	7,671	8,385	8,549
Total Debt	\$8,028	\$8,981	\$8,619
Divided by:			
EBITDA	7,533	6,602	7,134
Ratio of Total Debt to EBITDA	1.1x	1.4x	1.2x
LCM Adjustment	548	29	-
EBITDA excluding LCM	8,081	6,631	7,134
Ratio of Total Debt to EBITDA excluding LCM	1.0x	1.4x	1.2x

Reconciliation of EBITDA Excluding LCM Adjustments to EBITDA

For the Years Ended December 31,

USD millions	2015	2016	2017
EBITDA Excluding LCM Adjustments:			
Olefins & Polyolefins - Americas	\$3,821	\$2,906	2,982
Olefins & Polyolefins - EAI	1,855	2,067	2,282
Intermediates & Derivatives	1,656	1,333	1,490
Refining	519	72	157
Technology	243	262	223
Other	(13)	(9)	-
Total	8,081	6,631	7,134
Less:			
LCM Adjustments:			
Olefins & Polyolefins - Americas	160	29	-
Olefins & Polyolefins - EAI	30	-	-
Intermediates & Derivatives	181	-	-
Refining	177	-	-
Technology	-	-	-
Other	-	-	-
Total	548	29	-
EBITDA:			
Olefins & Polyolefins - Americas	3,661	2,877	2,982
Olefins & Polyolefins - EAI	1,825	2,067	2,282
Intermediates & Derivatives	1,475	1,333	1,490
Refining	342	72	157
Technology	243	262	223
Other	(13)	(9)	-
Total	\$7,533	\$6,602	7,134

Reconciliation of Diluted EPS from Continuing Operations Excluding LCM Adjustments to Diluted EPS from Continuing Operations

For the Years Ended December 31,			
USD	2015	2016	2017
Diluted Earnings Per Share from Continuing Operations Excluding LCM Adjustments	\$10.35	\$9.20	\$12.28
Less:			
LCM Adjustments	0.75	0.05	-
Diluted Earnings Per Share from Continuing Operations	\$9.60	\$9.15	\$12.28

Components of Cash and Liquid Investments

For the Years Ended December 31,			
USD millions	2015	2016	2017
Cash and Cash Equivalents and Restricted Cash	\$931	\$878	\$1,528
Short-Term Investments	1,064	1,147	1,307
Repurchase Agreements	387	369	570
Cash and Liquid Investments	\$2,382	\$2,394	\$3,405

LyondellBasell

Shareholder Information

Stock Exchange

LyondellBasell's common stock is listed on the New York Stock Exchange under the symbol "LYB."

Website

Shareholders and other interested parties can learn about LyondellBasell by visiting www.lyb.com.

Investor Relations Contact

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Corporate Governance

LyondellBasell's Corporate Governance Guidelines and related materials are available by selecting "Investor Relations" on our website at www.lyb.com.

Online Annual Report

LyondellBasell's Annual Report is available online at www.lyb.com.

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