

JP Morgan Aviation, Transportation & Industrials Conference Bob Patel - CEO

March 6, 2019

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The statements in this presentation relating to matters that are not historical facts are forward-looking statements. These forward-looking statements are based upon assumptions of management 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 cyclicality 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; any proposed business combination, the expected timetable for completing any proposed transactions and the receipt of any required governmental approvals, future financial and operating results, benefits and synergies of any proposed transactions, future opportunities for the combined company; 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, 2018, which can be found at www.LyondelBasell.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.LyondellBasell.com/investorrelations.

LyondellBasell A Strong, Global Company Delivering Outstanding Performance

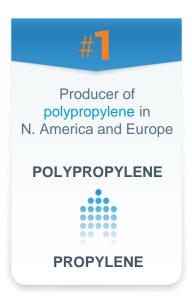
GLOBAL

\$40 billon enterprise value⁽¹⁾

Manufacturing in 24 countries and our products are sold in more than 100 countries

LEADING⁽²⁾







GROWING

OLEFINS & POLYOLEFINS

Expanded polypropylene compounds capacity in **China, India** and **Europe**

Building the first world-scale *Hyperzone* HDPE plant

Acquired A. Schulman

INTERMEDIATES & DERIVATIVES

Building the world's largest PO/TBA plant

⁽¹⁾ Enterprise value means market capitalization plus preferred equity (non-controlling interests), total debt and minority interest less cash and cash equivalents and short term investments as of December 31, 2018.

⁽²⁾ Source IHS, LYB. 2018 ranking as of Dec. 31, 2018

LyondellBasell in 2018



\$ 4.7 billionNet Income

\$ 6.9 billion EBITDA

10.8% Free Cash Flow Yield⁽¹⁾

27%
Return on Invested
Capital

Completed acquisition of **A. Schulman**

Premium Polyolefin Recycling JV with Suez

Building the first world scale Hyperzone HDPE plant

Building the world's largest **PO/TBA** plant

Evaluation of **Braskem** opportunity

Capturing margin

from improved markets and contracting in I&D

Creating value from innovation by licensing and deploying technology

Opportunistic share repurchases totaling \$1.9 billion

^{1.} Free cash flow yield is the ratio of the net cash provided by operating activities minus capital expenditures to market capitalization as of December 31, 2018.

LYB Portfolio Diversity Increases Earnings Resiliency

Stable:

Global Portfolio

Improved:

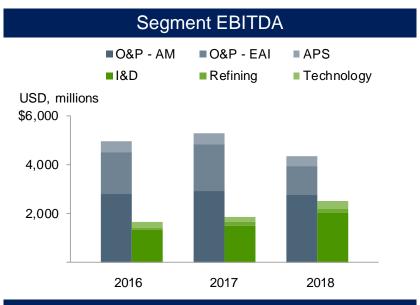
I&D performance

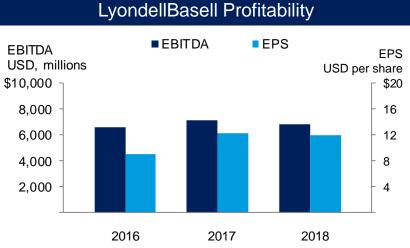
Refining operations

Growing:

Acquisition of A. Schulman

Technology licensing





Positive Global Outlook for 2019 Despite Market Volatility

North American feedstock volatility:

Mont Belvieu ethane has retreated with volatility expected from new cracker demand

Cycle impacts softened:

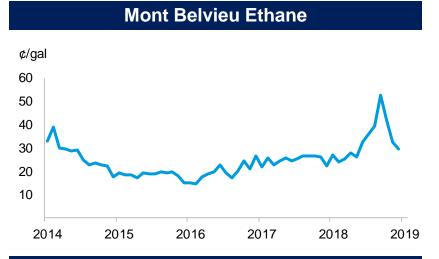
New industry ethylene cracker additions continue to be delayed

Midstream infrastructure will provide increased feedstock supply

Global polyethylene demand growth:

Stable at historical levels

Absorbing new North American industry capacity additions



Global Polyethylene Supply and Demand



Source: IHS

LyondellBasell's *Hyperzone* HDPE Technology A New Platform for Growth

1.1 billion pounds per year

Estimated investment: ~\$725 million

Start-up: 3Q 2019

Estimated EBITDA⁽¹⁾: \$170 - \$210 million/year



La Porte, Texas

⁽¹⁾ For the purpose of this slide, estimated EBITDA for Hyperzone Polyethylene is volume times average 2014-2018 margins.

Intermediates and Derivatives Business Improvement Reducing the Effects of Market Moderation

Delivering strong results in 2018:

Capturing strong market margins

Improved contracting strategies

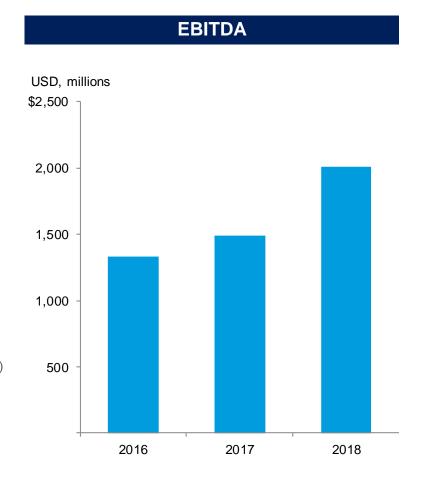
Market conditions moderating:

Higher industry operating rates likely in 2019

LyondellBasell business improvement:

Contracting improvements adding ~\$100-130 MM⁽¹⁾ EBITDA annually, starting mid-2019

New PO/TBA plant adding ~\$400-450 MM⁽¹⁾ EBITDA annually, starting 2H 2021



⁽¹⁾ Estimated EBITDA is volume times 2014-2018 average margins.

Advancing Our Leading PO/TBA Technology and Market Position

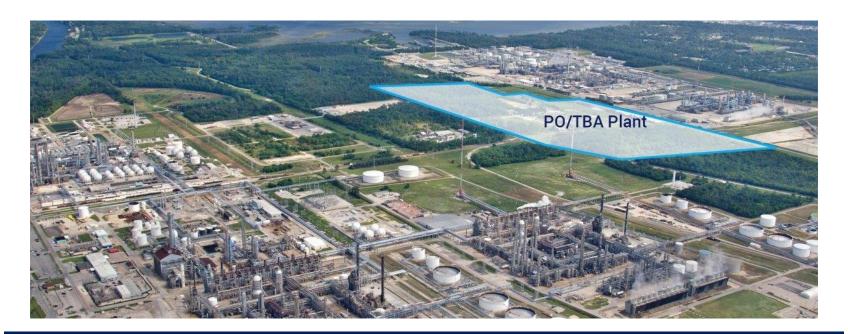
1.0 billion pounds Propylene Oxide, 2.2 billion pounds TBA

Estimated investment: ~\$2.4 billion

Groundbreaking: August 2018

Start-up: 2021

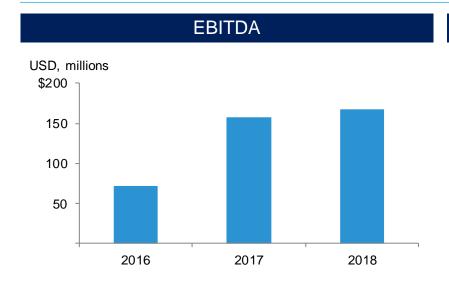
Estimated EBITDA⁽¹⁾: \$400 - \$450 MM/year



Value-driven growth supported by advantaged feedstocks and technology

(1) For the purpose of this slide, estimated EBITDA for Propylene Oxide / TBA is volume times 2014-2018 average margins.

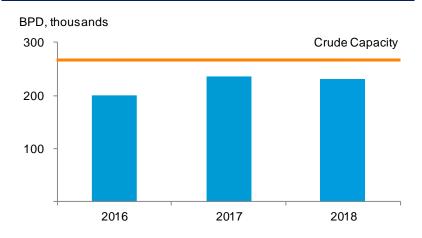
Refining: Improved Reliability Producing Results



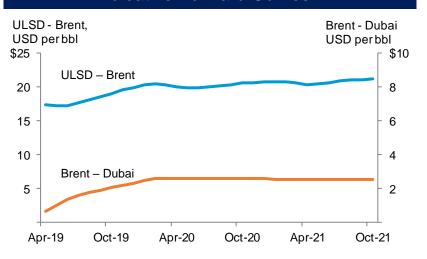
Refinery Outlook

- Improved reliability since 2017
- Increased profitability driven by strong diesel demand and improved heavy/light crude differentials
- Full capability to meet Tier 3 gasoline sulfur specifications
- Poised to benefit from the January 2020 IMO marine fuel oil sulfur regulations





Indicative Forward Curves⁽¹⁾



(1) Source: NYMEX as of February 4, 2018

A New Global Alliance Spanning the Value Chain



A new global, CEO led, cross-sector, not-for-profit organization with a clear mission to develop, accelerate & deploy solutions, catalyze public & private investment and engage communities to help end plastic waste in the environment



INFRASTRUCTURE



INNOVATION



EDUCATION



CLEAN UP

Catalyze investment in enhanced waste infrastructure to prevent plastic from reaching the environment

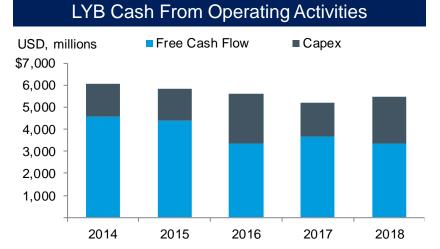
Innovate new materials, designs, technologies and business models based on science and economics

Engage and collaborate with governments, businesses and consumers to drive effective solutions

Develop solutions to address and clean up areas of existing plastic waste in the environment

Strong, Consistent Cash Generation

- 2018 Capex: \$2.1 billion
- 2018 Free Cash Flow⁽¹⁾: \$3.4 billion
- 2018 Ending Total Liquidity⁽²⁾: \$4.4 billion



Cash From Operating Activities as a Percent of Average Enterprise Value⁽³⁾



- (1) Free Cash Flow is calculated as cash from operating activities less capital expenditures.
- (2) Total liquidity includes cash and cash equivalents, restricted cash and restricted cash equivalents, short term investments, repurchase agreements, and availability under our Senior Revolving Credit Facility and U.S. Receivables Facility as of December 31, 2018.
- (3) Source: CapIQ, LYB. Cash from operating activities is as of December 31 for each full year. Average enterprise value means average market capitalization plus preferred equity, total debt and minority interest less cash and cash equivalents and short term investments. Market capitalization is based upon the average daily closing share price for the respective period. Preferred equity, total debt, minority interest, cash and cash equivalents and short-term investments are as of the last day of the respective period.

Cash Generation Funding Growth Investments and Shareholder Returns

2018 Cash from Operating Activities: \$5.5 B

Growing through investment:

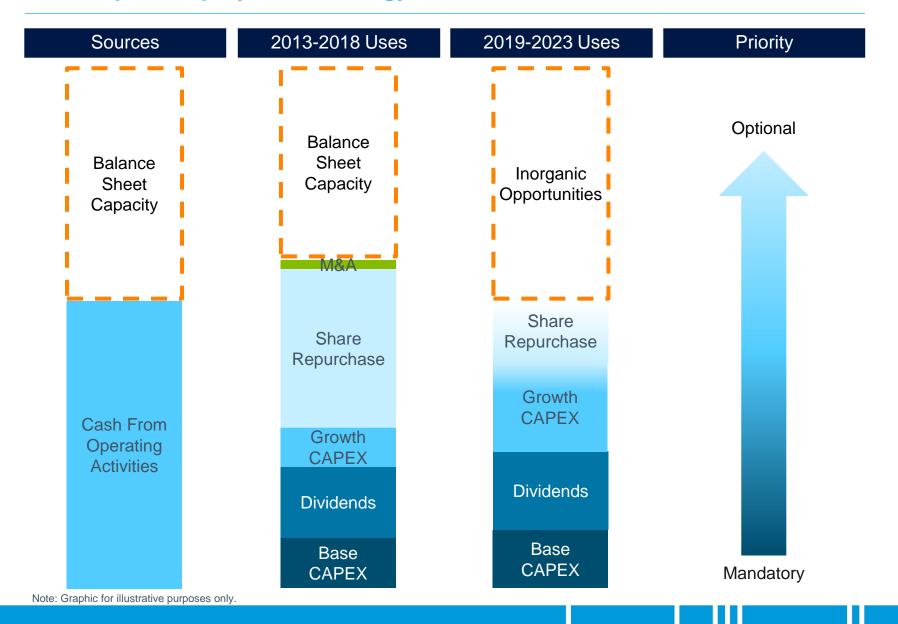
- \$2.1 B in capex
- Acquired A. Schulman

Returning value to shareholders:

- \$3.4 B in dividends & share repurchases
- 19.2 million shares repurchased



Our Capital Deployment Strategy Remains Consistent



Tangible Earnings Growth Over the Next Twelve Months











Acquisition of A. Schulman

Hyperzone HDPE I&D Improvement Refinery Reliability Refining Markets

Vertical Integration Poised to Capture HDPE Demand

Sustainable Contract Improvements

Increased Focus on Operational Excellence

Well Positioned for IMO Sulfur Regulations

End-to-End
Customer Solutions

Increased Capture of Ethylene Chain Margin Improved Capture of Market Upside Eight Consecutive
Quarters of
Stable Operation(1)

Improved Maya 2-1-1 Spread

Diverse and Growing Market Serving a Balanced Global Market Robust Global Demand

Improved Margin Capture

Potential for Substantial Profitability

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Excludes impact of planned maintenance and Hurricane Harvey.

Strategic Goals to Guide our Growth



Leverage Core Strengths:

- Safe & reliable operations
- Cost discipline
- Global reach and broad portfolio



Advance Profitable Growth:

 Focus on advantaged and differentiated products and markets



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Capture Opportunities:

- Consistent with LYB strengths
- Create tangible value



MAINTAIN INVESTMENT-GRADE CREDIT RATING

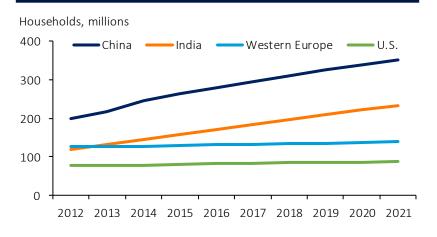
To Deliver
Consistent
Top-Quartile
TSR



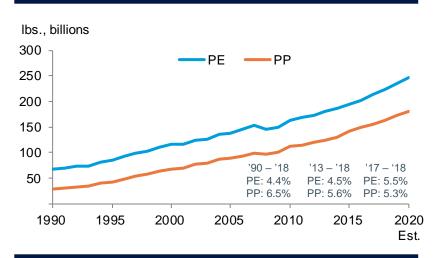
Appendix

Global Macro Trends - Demographics Driving Demand

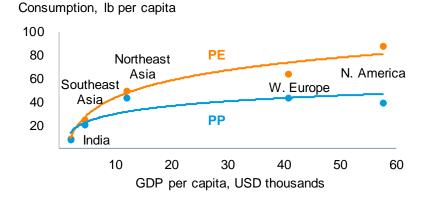
Upper/Middle Class Households



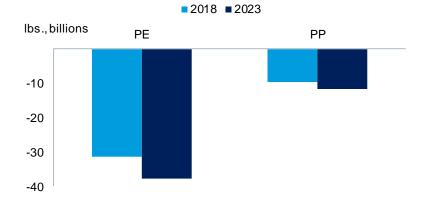
World PE and PP Demand



2018 Polyolefins Consumption



China Polyolefin Trade Deficit⁽¹⁾



Source: IHS.

China polyolefin trade deficit is production less domestic demand.

Cracker Flexibility & Midstream Investment: Expected to Reduce Ethane Price Volatility by 2020

2H2018 Mont Belvieu ethane price volatility

~ 25 - 60 ¢/gal

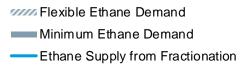
Aggravating factors:

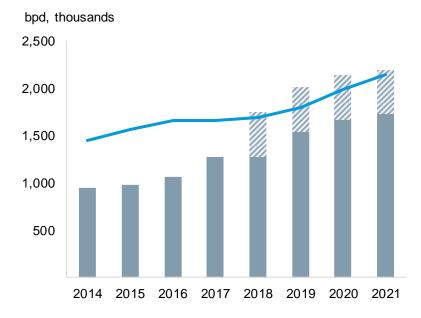
- New ethylene capacity
- Fewer fractionation additions
- Pipeline constraints

Relieving factors:

- Ethylene feedstock flexibility
- New fractionation capacity
- Fewer ethylene capacity additions
- Pipeline builds/expansions/repurposing
- Ethylene industry downtime

Gulf Coast Ethane Demand & Supply from Fractionation





Source: EIA, IHS, Jacobs Consultancy and LYB estimates. Gulf coast data represents PADD 3. Minimum ethane demand includes ethane exports, ethane demand for ethane crackers and minimum ethane demand for flexible crackers. Flexible ethane demand reflects the ability of flexible crackers to switch to alternative feeds similar to levels consumed during 2006-2008.

LyondellBasell Flexibility & Business Portfolio Reduces Ethane Impacts

Advantaged N. American Cracker Fleet:

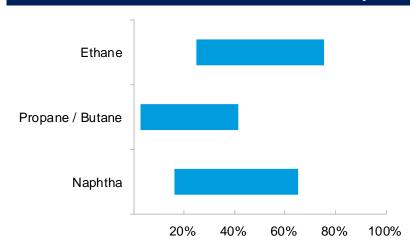
- Gulf Coast crackers
 - High feedstock flexibility
- Midwest crackers
 - Low priced Conway feedstock

Annual EBITDA impact due to a 20 ¢/gal ethane price change⁽²⁾ = \$380 MM

Diverse portfolio offers potential pricing offsets:

- Polyethylene
- Styrene
- Ethylene Oxide & Derivatives
- Vinyl Acetate Monomer

LYB U.S. Gulf Coast Feedstock Flexibility⁽¹⁾

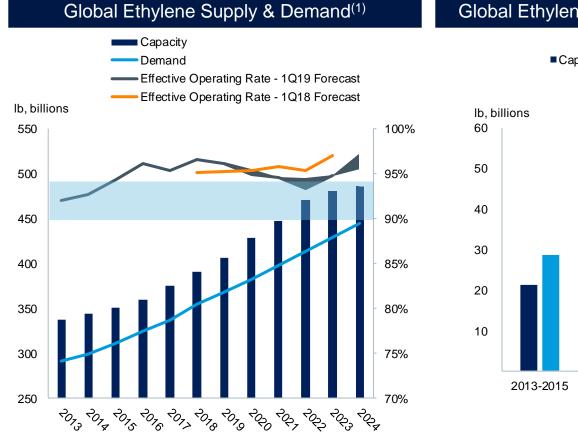




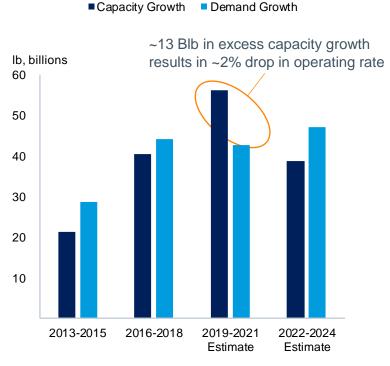
⁽¹⁾ Source: LYB. Data represents the percentage of feedstock used in LYB's U.S. Gulf Coast crackers.

⁽²⁾ Source: LYB. Basis for ethylene impact is ethylene production, net of metathesis unit consumption. Impact assumes a 20 ¢/gal ethane increase for a full year and ethane representing 80% of LYB's U.S. Gulf Coast cracker feedstocks.

Industry Capacity Additions Serving Strong Global Demand Growth



Global Ethylene Supply & Demand Growth⁽¹⁾



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Project delays and constrained supply due to Chinese reforms and Hurricane Harvey support a short and shallow downturn thesis

(1) Source: IHS, Wood Mackenzie, LYB estimates, effective operating rate assuming 6% industry downtime. Based on 2018 updated balances.

Majority of New N. American Industry Capacity Already in the Market

Status & Impact of New Capacity

- Ethylene units are running well
- New PE capacity is in the market
- PE exports are expected to increase

2016-2019: N. America Capacity Startups⁽¹⁾

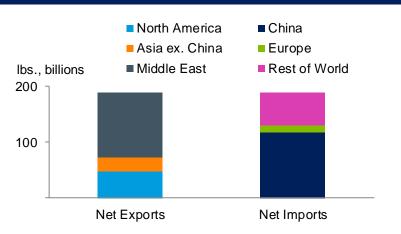
~ 65% of 24 Blbs of Ethylene

~ 70% of 19 Blbs of Polyethylene

2018: Strong Operations and Markets(2)

	Ethylene Effective Operating Rate	Polyethylene Domestic Demand Growth
U.S. & Canada	92%	7.2%
Northeast Asia	98%	7.7%
Europe	94%	1.9%

2016-2019: Polyethylene Trade⁽¹⁾



Source: IHS and LYB estimates.

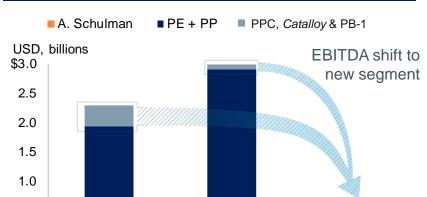
⁽²⁾ Source: IHS and LYB estimates. Polyethylene domestic demand growth is 2018 compared to 2017. 2018 includes actuals for 3Q18 and IHS forecasts for 4Q18.

Advanced Polymer Solutions: Creating a New Platform for Growth





- LyondellBasell ~ 3.4 Blb
 - PP Compounds
 - Catalloy
 - PB-1



O&P - Americas

Advanced Polymer

Solutions

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2017 EBITDA(2)

- A. Schulman ~ \$200 MM
- LyondellBasell ~ \$440 MM
 - PP Compounds
 - Catalloy
 - PB-1

O&P - EAI

www.lyondellbasell.com

0.5

0.0

^{(1) 2017} sales volume represents LyondellBasell's third party polyethylene, polypropylene, polypropylene compounds, *Catalloy* and polybutene-1 sales for the twelve-month period ended December 31, 2017. A. Schulman was acquired on August 21, 2018. A. Schulman information was obtained from publicly available quarterly release data and management estimate for the twelve-month period ended November 30, 2017.

⁽²⁾ A. Schulman EBITDA is adjusted EBITDA based on publicly available quarterly release data for the twelve-month period ended November 30, 2017.

Advanced Polymer Solutions: A New Segment Focusing on Broad and Attractive Markets

Compounding & Solutions

Polypropylene Compounds



Masterbatch



Engineered Plastics



Engineered Composites



Custom Performance Colors



Advanced Polymers

Catalloy





Polybutene-1

Specialty Powders



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. The non-GAAP measures we have presented include EBITDA. 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 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.

While we also believe that free cash flow (FCF) and free cash flow yield (FCF Yield) are measures commonly used by investors, free cash flow and free cash flow yield, 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. For purposes of this presentation, free cash flow means net cash provided by operating activities minus capital expenditures and free cash flow yield means the ratio of free cash flow to market capitalization.

Additionally, total liquidity, enterprise value and the ratio of cash from operating activities to average enterprise value are measures that provide an indicator of value to investors. For purposes of this presentation, total liquidity includes cash and cash equivalents, restricted cash and restricted cash equivalents, short term investments, repurchase agreements, and availability under our Senior Revolving Credit Facility and U.S. Receivables Securitization Facility. Enterprise value means market capitalization plus preferred equity (redeemable non-controlling interests), total debt and non-controlling interests less cash and cash equivalents and short term investments. The ratio of cash from operating activities to average enterprise value means cash from operating activities divided by average enterprise value. Average enterprise value means average market capitalization plus preferred equity (redeemable non-controlling interests), total debt and non-controlling interests less cash and cash equivalents and short term investments.

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

Enterprise Value

Calculation of LYB Enterprise Value (EV)

In Million of Dollars except for common shares outstanding					
Common shares outstanding, December 31, 2018	37	375,696,661			
Multiplied by:					
Closing share price, December 31, 2018	\$	83.16			
Market capitalization	\$	31,243			
Add:					
Current maturities of long-term debt		5			
Short-term debt		885			
Long-term debt		8,497			
Less:					
Cash and cash equivalents		332			
Short-term investments		892			
Net debt		8,163			
Redeemable non-controlling interests		116			
Non-controlling interests		23			
Enterprise value	\$	39,545			

EBITDA by Segment to **EBITDA**

Reconciliation of Segment EBITDA to EBITDA

	For the Years Ended December 31,								
In Millions of Dollars		2016		2017		2018			
Segment EBITDA:									
Olefins & Polyolefins - Americas	\$	2,788	\$	2,899	\$	2,762			
Olefins & Polyolefins - EAI		1,729		1,927		1,163			
Intermediates & Derivatives	1,333			1,490		2,011			
Advanced Polymer Solutions		427		438		400			
Refining		72		157		167			
Technology		262		223		328			
Other		(9)				36			
Total EBITDA	\$	6,602	\$	7,134	\$	6,867			

Net Income to EBITDA

Reconciliation of Net Income To EBITDA

	For the Years Ended December 31,							
In Millions of Dollars		2016		2017		2018		
Net income	\$	3,837	\$	4,877	\$	4,690		
Loss from discontinued operations		10		18		8		
Income from continuing operations		3,847		4,895		4,698		
Provision for income taxes		1,386		598		613		
Depreciation and amortization		1,064		1,174		1,241		
Interest expense, net		305		467		315		
EBITDA	\$	6,602	\$	7,134	\$	6,867		

Free Cash Flow to Net Cash Provided by Operating Activities

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

	Years Ended December 31,							
In Millions of Dollars	2014	2015	2016	2017	2018			
Free cash flow	\$ 4,549	\$ 4,402	\$ 3,363	\$ 3,659	\$ 3,366			
Add:								
Capital expenditures	1,499	1,440	2,243	1,547	2,105			
Net cash provided by operating activities	\$ 6,048	\$ 5,842	\$ 5,606	\$ 5,206	\$ 5,471			

Free Cash Flow Yield

Calculation of Free Cash Flow Yield

In Millions of Dollars (except share data)		ar Ended ember 31, 2018
Net cash provided by operating activities	\$	5,471
Less:		
Capital expenditures		2,105
Free cash flow	\$	3,366
Divided by:		
Market capital:		
Common stock outstanding	3	75,696,661
Closing share price, end of period	\$	83.16
Market capital	\$	31,243
Free cash flow yield		10.8%

Return on Invested Capital

Calculation of LYB Return on Invested Capital (ROIC)

	Years Ended December 31,							
In Million of Dollars	2016	2017			2018			
Income from continuing operations	_	\$	4,895	\$	4,698			
Less:								
Tax benefit due to change in tax law from U.S. Tax Cuts and Jobs Act			819					
Non-cash tax settlement (2Q18)					346			
Add:								
Interest expense, net			467		315			
Effective tax rate (excluding tax benefits)			25.8%		18%			
Interest expense, net, after tax			347		258			
Adjusted income from continuing operations			4,423		4,610			
Divided by:								
Average invested capital:								
Property, plant & equipment, net	10,137		10,997		12,477			
Current assets	9,599		11,738		10,566			
Less:								
Current liabilities	4,540		4,777		5,513			
Cash and cash equivalents	875		1,523		332			
\$	14,321		16,435		17,198			
Average invested capital		\$	15,378	\$	16,817			
Return on invested capital			29%		27%			

Cash and Liquid Investments and Total Liquidity

Components of Cash and Liquid Investments and Total Liquidity

In Millions of Dollars	ember 31, 2018
Cash and cash equivalents and restricted cash and cash equivalents	\$ 401
Short-term investments	892
Repurchase agreements	 544
Cash and liquid investments	1,837
Availability under Senior Revolving Credit Facility	1,688
Availability under U.S Receivables Facility	 829
Total liquidity	\$ 4,354

Dividends and Share Repurchases

Schedule of Spending for Dividends and Share Repurchases

	For the Year Ended									
In Millions of Dollars	2014		2015		2016		2017			2018
Dividends	\$	1,403	\$	1,410	\$	1,395	\$	1,415	\$	1,554
Repurchases of ordinary shares		5,788		4,656		2,938		866		1,854
Total	\$	7,191	\$	6,066	\$	4,333	\$	2,281	\$	3,408

Cash from Operating Activities as a Percent of Average Enterprise Value

Cash from Operating Activities as a Percent of Average Enterprise Value

	For the Years Ended December 31,										
In Millions of Dollars, except share amounts		2014		2015	2016		2017			2018	
Cash from operating activities	\$	6,048	\$	5,842	\$	5,606	\$	5,206	\$	5,471	
Average enterprise value:											
Common shares outstanding	486	6,969,402	440	,150,069	404	1,046,331	394	,512,054	375	,696,661	
Daily average closing price	\$	93.66	\$	91.47	\$	81.00	\$	92.00		105.57	
Market capitalization		45,610		40,261		32,728		36,295		39,662	
Current maturities of long-term debt		4		4		2		2		5	
Short-term debt		346		353		594		68		885	
Long-term debt		6,695		7,671		8,385		8,549		8,497	
Less:											
Cash and cash equivalents		1,031		924		875		1,523		332	
Short-term investments		1,593		1,064		1,147		1,307		892	
Net debt		4,421		6,040		6,959		5,789		8,163	
Redeemable non-controlling interests										116	
Non-controlling interests		30		24		25		1		23	
Enterprise value	\$	50,061	\$	46,325	\$	39,712	\$	42,085	\$	47,964	
Cash from operating activities as a											
percent of enterprise value		12%		13%		14%		12%		11%	