



Jefferies Industrial – New York

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EVP, Global Olefins & Polyolefins

August 10, 2016

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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 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, 2015, 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.

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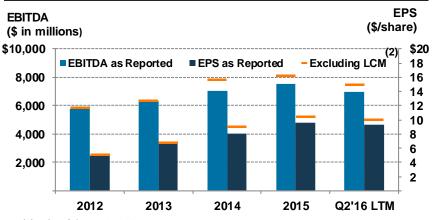
World-Class Scale With Leading Positions



Who We Are

- \$31 billion market capitalization (1)
- Global independent chemical company, incorporated under Dutch law
- Executive offices in London, Rotterdam, and Houston
- Products sold in ~100 countries, with 57 manufacturing sites across 18 countries

EBITDA / EPS Performance



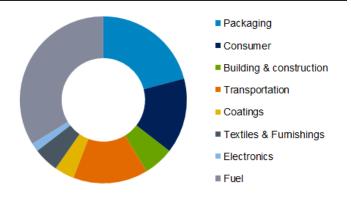
Our Products ⁽³⁾	Capacity Position						
Chemicals	Global	N Am	EU ⁽⁴⁾				
Ethylene	#5	#2	#5				
Propylene*	#5	#3	#6				
Propylene Oxide (PO)	#2	#2	#2				
Polymers							
Polyolefins (PE+PP)	#3	#3	#1				
Polypropylene	#2	#1	#1				
Polyethylene	#6	#3	#1				
Polypropylene Compounds	#1	-	-				
Fuels							
Oxyfuels	#1	#1	#1				
Technology and R&D							
Polyolefin Licensing	#1	#2	#1				
*Excluding Refinery Grade Propylene							

- (1) As of June 30, 2016
- 2) LCM stands for "lower of cost or market". Further detail regarding LCM adjustments can be found in the Appendix under "Information Related to Financial Measures."
- (3) Source: LYB, IHS as of December 31, 2015. Only pro rata ownership of joint venture facilities.
- l) EU includes Central and Western Europe for all products except Technology and R&D which is all of Europe

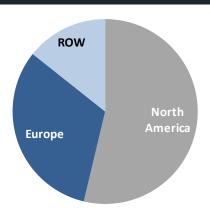
Diversified Geographically and Across End Markets | Jondellbasell



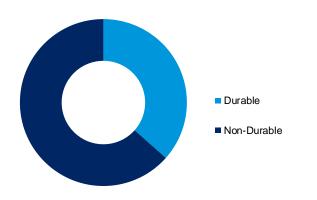
Revenue by End Use⁽¹⁾



2015 Revenue by Geography



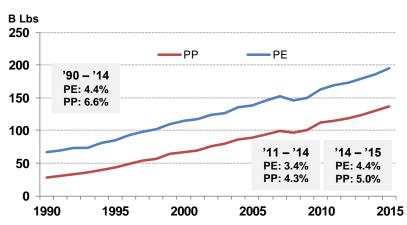
Durable / Non-Durable Revenue⁽¹⁾



Source: Internal LYB Estimates and IHS.

(1) Based on 2014 annual revenues. Excludes Technology segment revenues and intersegment eliminations.

World PE and PP Demand



LYB's Focused Approach is Yielding Results



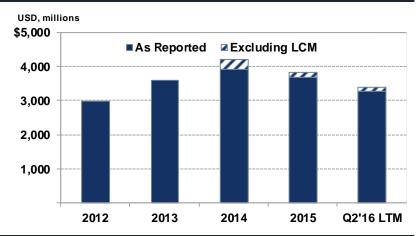


- Maximize value through a focus on operations
 - Safe operations → reliable operations → maximum profit
 - The best/most leveraging investment is in your existing assets
- Cost discipline remains a priority
 - Most chemical markets are mature
 - Overhead and spending management must be consistent over time
- Invest in advantaged positions, sustain others
 - Raw material advantages
 - Technology and structure create areas of differentiation
- Shareholders own the company
 - Transparency
 - · Shareholder friendly cash deployment policy

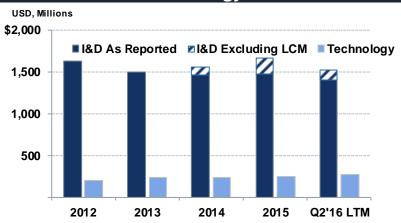
A High Performing Portfolio: EBITDA Across Time



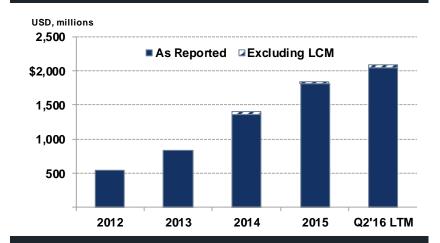
Olefins & Polyolefins - Americas



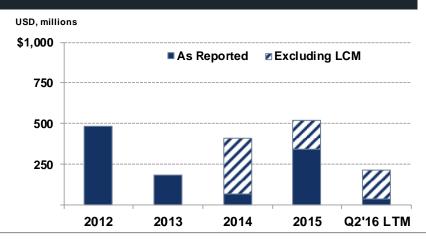
Intermediates and Derivatives and Technology



Olefins & Polyolefins - EAI



Refining



Each Business is Operated to Maximize Results



<u>Segment</u>	LYB Market Position	<u>Priority</u>	Q2'16 LTM EBITDA (ex. LCM)
Olefins & Polyolefins (O&P) – Americas	U.S. Shale NGL advantageIncreasing capacity	Invest	\$3.4 B
Olefins & Polyolefins (O&P) – EAI	 Commodities – naphtha based, with cyclical upside Advantaged feedstock Differentiated polymers 	Optimize	\$2.1 B
Intermediates & Derivatives (I&D)	Proprietary technologiesNatural gas advantage	Invest	\$1.5 B
Refining	Large, heavy crude refineryProcessing Canadian crude	Optimize	\$0.2 B
Technology	Strong technology positionMaintain leadership	Focus	\$0.3 B ⁽¹⁾

⁽¹⁾ The Technology Segment was not impacted by the LCM adjustment.

O&P - Americas and EAI Our Strategy is Generating Differential Results

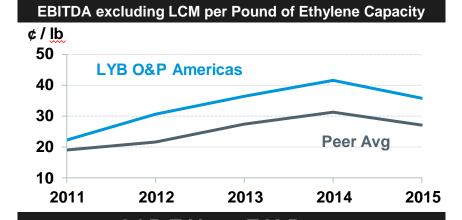


Safe & Reliable Operations

Cost Focused

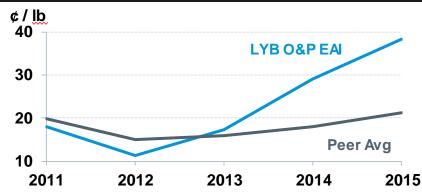
 Feedstock Advantaged and Flexibility

Differentiated Products



O&P Americas vs. Americas Peers





Source: Company Filings, Capital IQ, IHS, and LYB Estimates.

Ethylene capacities include pro-rata JV capacities and are averages based on company reports and IHS. Dow capacity is global.

CP Chemical is consolidated using: income before taxes + depreciation – equity income. Westlake Olefins is operating income + depreciation. INEOS O&P North America and Dow Performance Plastics EBITDA is as reported before exceptional/extraordinary items. LYB O&P EAI EBITDA excludes the impacts of LCM adjustments.

INEOS O&P Europe is as reported EBITDA before exceptional/extraordinary items. Borealis is operating income + depreciation + equity income. LYB O&P EAI EBITDA

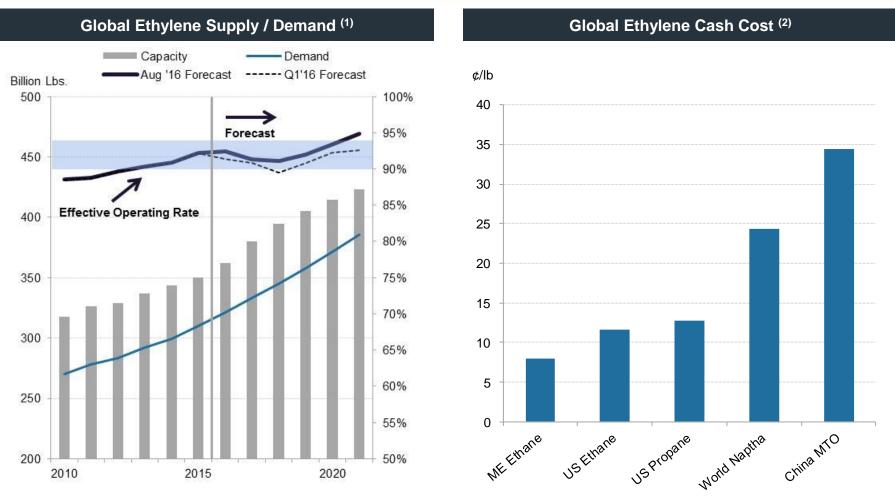
excludes the impacts of LCM adjustments.

Capacities: Americas EBITDA:

EAI EBITDA:

O&P: Strong Operating Rate and High Cost Supply Sources Support Global Ethylene Industry Pricing





Source: IHS. Operating Rates are calculated assuming 4% industry downtime. Demand and Q1'16 Forecast are sourced from the IHS Chemical Supply and Demand 2016 Balance Update. Capacity and Aug '16 Forecast are sourced from the IHS Chemical Capacity as of Aug 1, 2016.

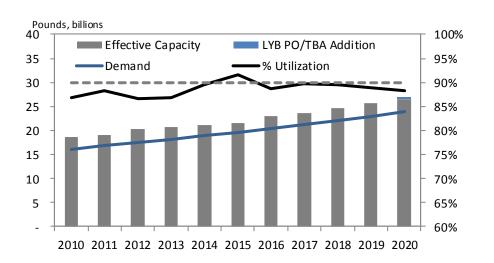
²⁾ Source: IHS and LYB analysis as of June 2016.

I&D

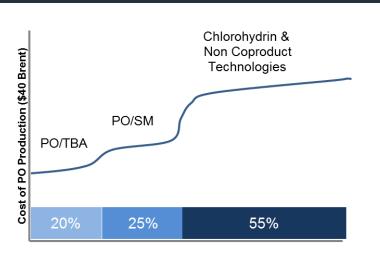
Expanding with Leading Technology



Global Propylene Oxide (PO) Supply/Demand



Propylene Oxide (PO) Cost Curve



- Worldwide propylene oxide demand growth equivalent to one new world scale plant a year
- New PO/TBA plant benefits from stable propylene oxide and advantaged oxyfuels
- LYB's PO production capacity is approximately a 50/50 split between PO/TBA and PO/SM technologies, the two lowest cost technologies

Source: LYB, IHS.

Cash Deployment Hierarchy

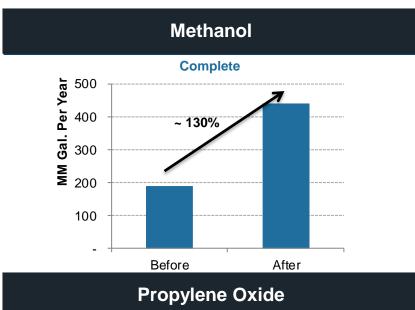


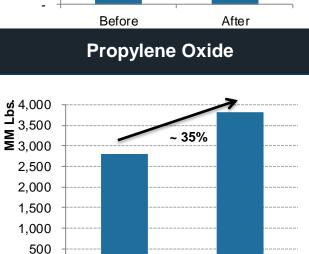
		2015	Comments
	Base Capex	~ \$800 million	. First priorities for each
Foundation	Interest Expense	~ \$310 million	First priorities for cash
Inter	Interim Dividend	~ \$1.4 billion	Fund through the cycle with cash flow from operations
	Growth Capex	~ \$600 million	 High-return in advantaged businesses
Discretionary Opportunities	Share Repurchases / Special Dividend / Acquisitions	Balance of cash generated	 Discretionary cash returned to shareholders M&A if strategic and meaningfully accretive

Source: LYB

Significantly Expanding our Advantaged Positions

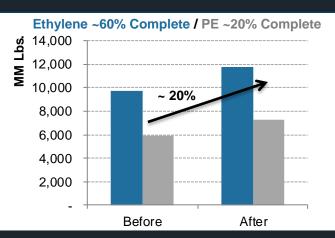




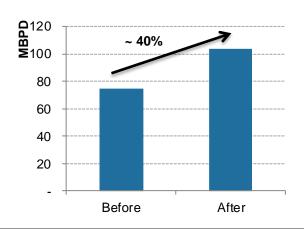


Before After Note: "Before" refers to the capacity prior to the initiation of our growth program in 2013.

U.S. Ethylene / Polyethylene

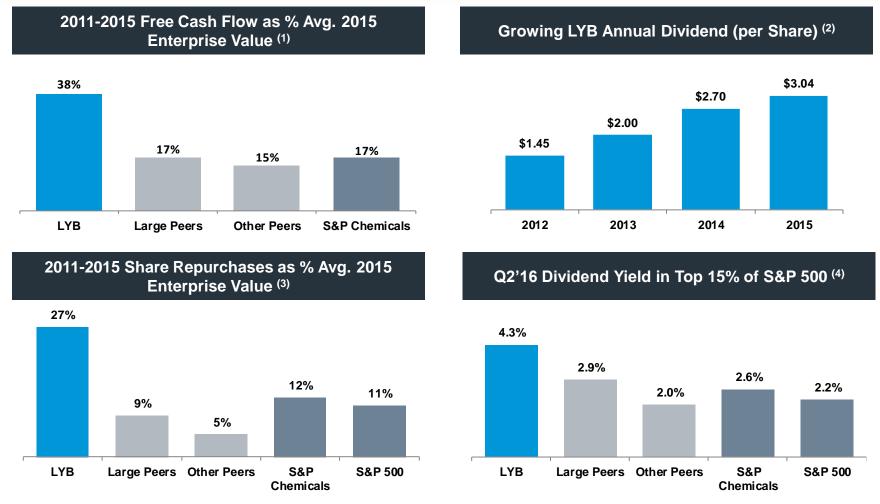


MTBE Equivalent



Leading Cash Flows Driving Internal Growth, Dividend Growth and Share Repurchases





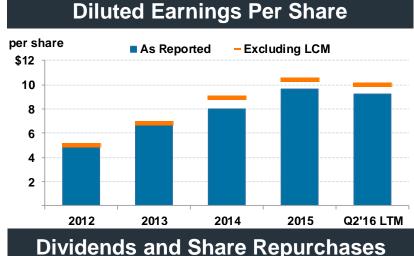
Source: Capital IQ and LYB. For definitions and peer group definitions, please see the Glossary in the Appendix to this presentation.

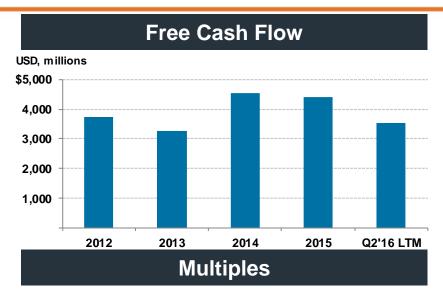
(1) S&P data calculated based upon individual constituent data as of May 23, 2016 (2) Excludes special dividends paid in 2012 of \$2.75 per share.

(3) LYB and Capital IQ as of December 31, 2015 (4) Q2'16 LTM using LYB and Capital IQ as of June 30, 2016

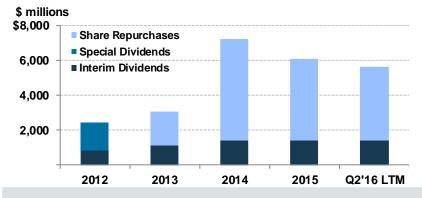
Outperformance Coupled with a Shareholder Friendly Approach







Dividends and Share Repurchases



Multiples (trailing 12 months as of 6/30/16)	LYB	S&P Chemicals	S&P 500		
EV/EBITDA Excluding LCM ⁽¹⁾	5.8x	10.4x	11.3x		
P/E ⁽²⁾	7.5x	18.5x	24.3x		

Industry leading performance and statistics at a lagging multiple

Source: Capital IQ, Bloomberg, LYB (1) EV/EBITDA = Enterprise Value / Earnings Before Interest, Taxes and D&A as calculated by Capital IQ and Bloomberg, except for LYB, which is based on EBITDA ex. LCM for the trailing 12 months. (2) PE = Price to Earnings as calculated by Capital IQ and Bloomberg, except for LYB, which is based on earnings per share excluding LCM for the trailing 12 months.

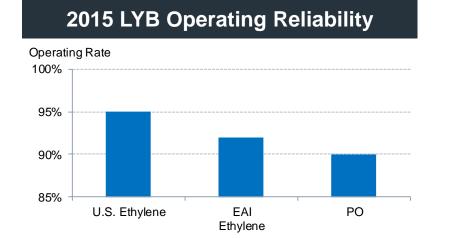


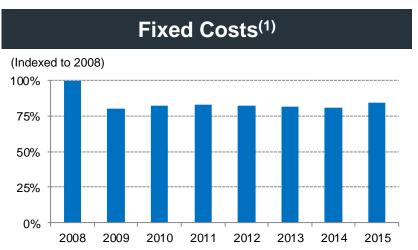


Appendix

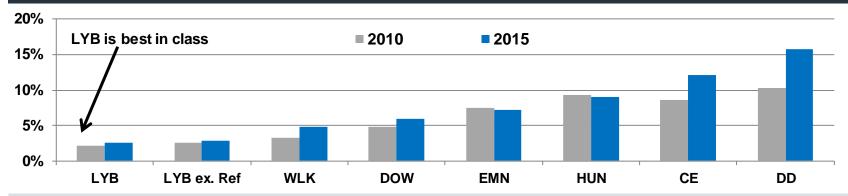
Operating Reliability and Cost Management: Key Priorities and an LYB Advantage







SG&A as Percent of Revenue – LYB vs. Peer Companies



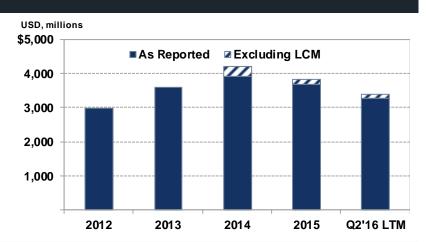
LYB continues to have intense focus on reliability and cost discipline, resulting in industry leading performance

Source: Capital IQ and LYB. 1) Fixed costs are adjusted for annual bonuses and selected items, and to 2015 FX.

O&P Americas NGL Advantage with Flexible, Reliable Operations





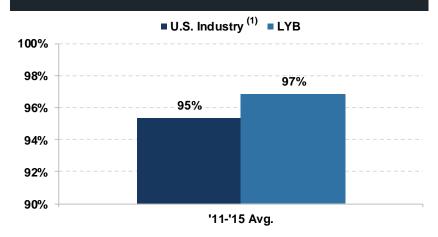


LYB Flexibility Maximum % Ethylene from Feedstock

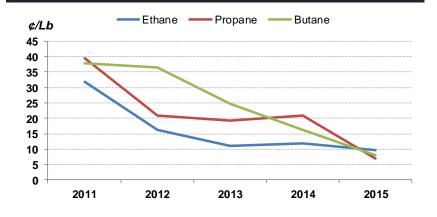
Feed	System
NGL	~90%
Ethane	~80%
Propane	~20%
Butane	~15%
Liquids	~55%
Minimum Liquids	~10%

(1) U.S. Industry excluding LYB

Operating Reliability vs. U.S. Industry



Cost of Ethylene Production



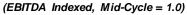
O&P – EAI Record EBITDA and a Restructured Business Approach

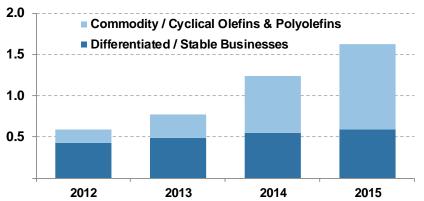




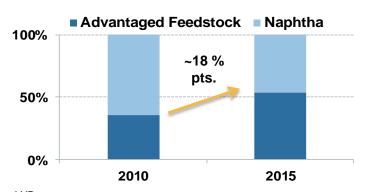


Indexed O&P EAI EBITDA⁽¹⁾

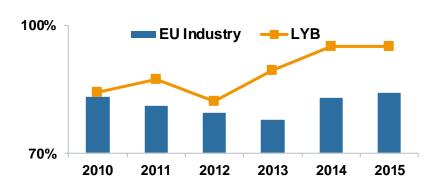




Producing from Advantaged Feedstock



Western Europe Olefins Operating Rate



Source: LYB.

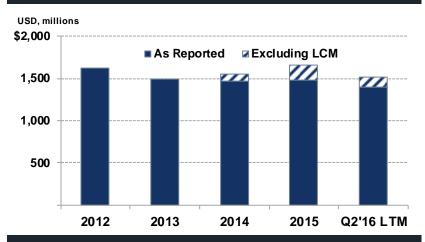
(1) O&P EAI trough, mid-cycle and peak EBITDA values are based on LYB estimates. 2014 and 2015 LTM EBITDA excludes the impact of the LCM adjustment.

I&D

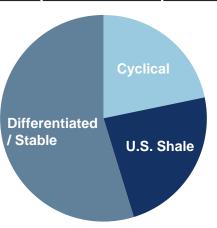
Segment Diversity: a Platform for Stable Profitability



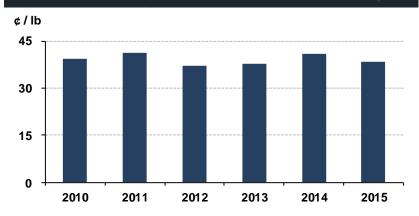
EBITDA Performance



Differentiated Proprietary Technology (2015 EBITDA)



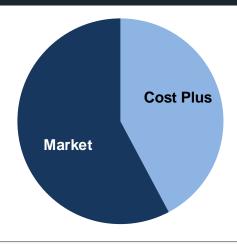
Propylene Glycol Raw Material Margin



Source: LYB, Chemical Data (PG Raw Material Margin)

(1) Internal LYB estimates derived from forecasted third party sales, 2015.

Contracting Strategy⁽¹⁾



LyondellBasell in 2015



EARNINGS

Diluted EPS ex. LCM⁽¹⁾ \$10.35

\$8.1 Billion

CASH FLOW

Cash from Operations \$5.8 Billion

Free Cash Flow \$4.4 Billion

SHAREHOLDER RETURNS

Dividends \$1.4 Billion

3.6% Dividend Yield
Top 16% of the S&P 500

Share Repurchases \$4.7 Billion

52 million shares
11% of shares outstanding
Top 3% of the S&P 500⁽²⁾

RETURN MEASURES

Return on Invested Capital 34%

Total Shareholder Return

vs. S&P 500

1 year: 13% vs. -1%

3 years: 67% vs. 47%

5 years: 254% vs. 65%

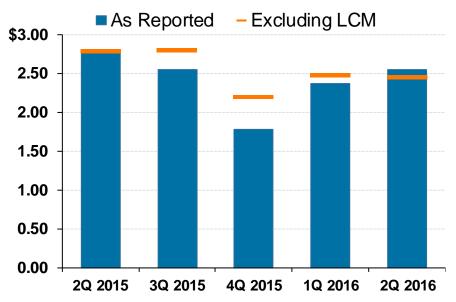
- (1) LCM stands for "lower cost or market". Further detail regarding LCM adjustments can be found under "Information Related to Financial Measures."
- (2) Share repurchases ranked as a percentage of LTM Average Enterprise Value.

2Q 2016 Highlights



	A	s Reporte	d	Excluding LCM (1)			
(\$ in millions, except per share data)	2Q15	1Q16	2Q16	2Q15	1Q16	2Q16	
ЕВПОА	\$2,186	\$1,807	\$1,783	\$2,177	\$1,875	\$1,715	
Income from Continuing Operations	\$1,326	\$1,030	\$1,092	\$1,320	\$1,077	\$1,045	
Diluted Earnings (\$ / share) from Continuing Operations	\$2.81	\$2.37	\$2.56	\$2.79	\$2.48	\$2.45	





Highlights

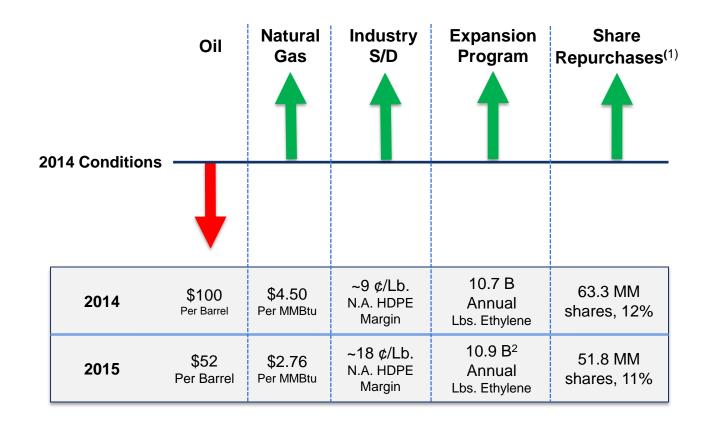
- Polyolefins capturing strong O&P chain margins
- Industry trends provided improved olefin, refining and oxyfuel pricing
- Refinery returned to normal production mid-July
- \$1.1 billion in 2Q16 share repurchases and dividends
- Authorized a fourth share repurchase program of up to 10% of shares over next 18 months
 - Increased interim dividend by 9% to \$0.85 per share

⁽¹⁾ LCM stands for "lower of cost or market." An explanation of LCM and why we have excluded it from our financial information in this presentation can be found on the third page of this presentation under "Information Related to Financial Measures."

Note: All results for Q1'16 include \$78 million after-tax gain on sale of Petroken: \$57 million gain for O&P Americas for polypropylene business and \$21 million gain for O&P EAI for polypropylene compounding business.

Strong 2015 EPS Despite Oil Decline





EPS is supported by low U.S. natural gas prices, tightened market conditions, our expansion program, and share repurchases

Source: LYB, IHS as of year end 2015.

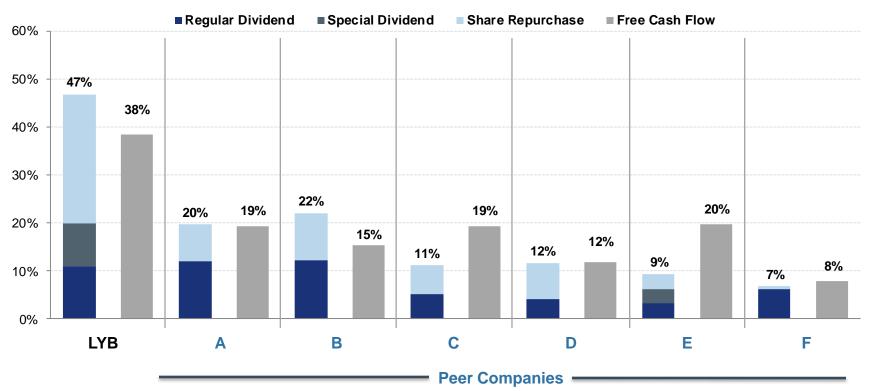
⁽¹⁾ Share repurchase percentage is calculated off of the outstanding shares as of Dec. 31, 2013 and 2014, respectively.

⁽²⁾ Capacity for 2015 includes the full annual capacity addition of 250 MM pounds completed at our Channelview site during 2015.

Industry Leading Shareholder Returns



2011 - 2015 Shareholder Returns of Capital and Free Cash Flow as % of Average 2015 Enterprise Value



Exceeding peers in absolute cash returned and as a percentage of enterprise value

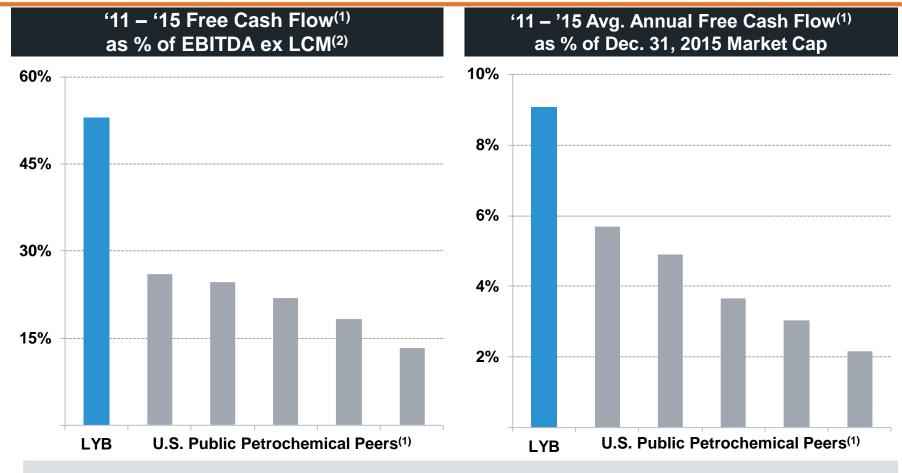
Source: SEC filings, Bloomberg, CapitalIQ

Enterprise Value for LYB is calculated based on reported line items. For Peer Companies, Enterprise Value is calculated as the average of the daily share price multiplied by the number of shares outstanding during 2015 as per CapitalIQ.

For definitions and peer group definitions, please see the Glossary in this Appendix.

LYB Delivers More Cash to the Bottom Line





LYB free cash flow generation significantly exceeds comparable U.S. public peer group

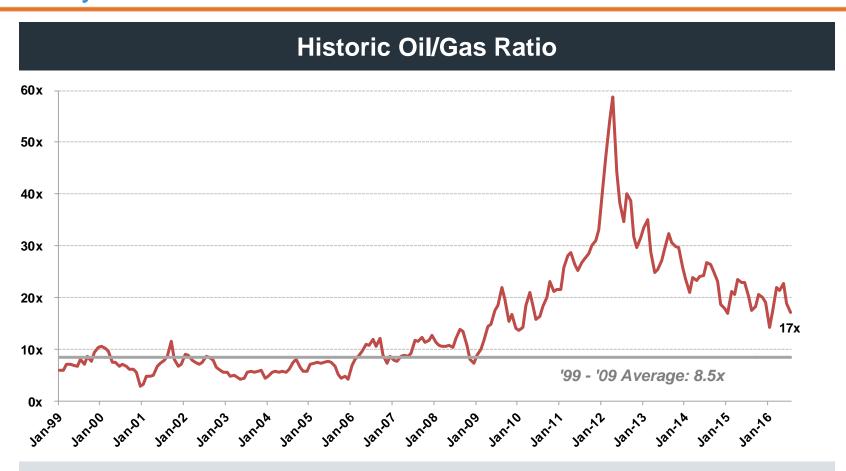
Source: Company filings, Capital IQ

Notes: LYB calculations are based on as reported line items. Peer calculations are based on Capital IQ calculated line items.

(1) For definitions and peer group definitions, please see the Glossary in this Appendix.

(2) For purposes of peer comparison, LYB EBITDA ex LCM is as reported. Peer EBITDA = Revenue - COGS - SG&A - R&D + D&A + equity income as calculated by Capital IQ.





- Current oil to gas ratio remains healthy and well above the pre-shale average
- Historic equivalent value of crude oil to gas implies a price of ~ \$15-25 per barrel

Source: NYMEX, ICE.

2016 – 2020: On-purpose Propylene Dominates Global Capacity Growth



Ethylene Capacity Growth

Propylene Capacity Growth (1)

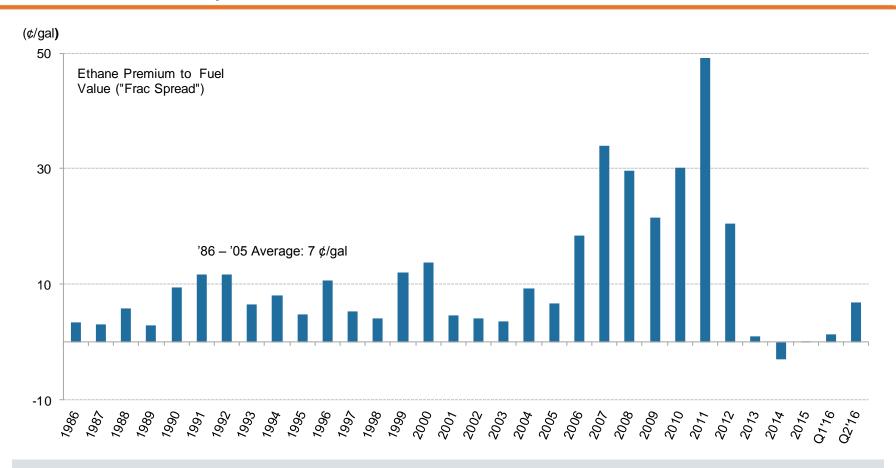


- Ethylene Demand Growth ~ 65 Blbs
- Ethylene Supply Growth ~ 75% conventional
- Propylene Demand Growth ~ 52 Blbs
- Propylene Supply Growth ~ 75% On-purpose

Source: IHS. (1) Excludes refinery-grade propylene.

Ethane Frac Spread



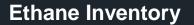


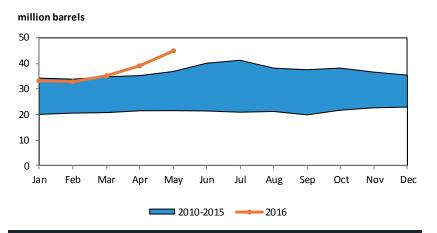
- Long term ethane has generally traded with a 7 ¢/gal frac spread
- Infrastructure constraints drove 2006 2012 premiums

Source: IHS

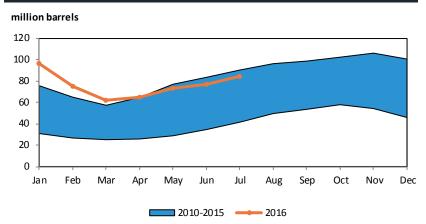
NGLs Remain Abundant



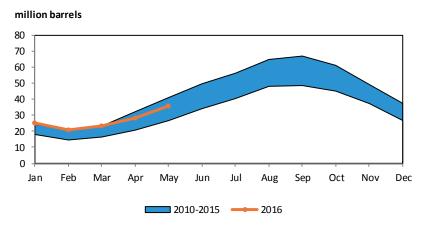




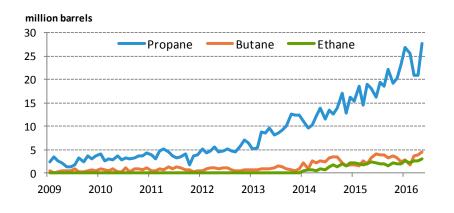
Propane Inventory



Butane Inventory



NGL Exports

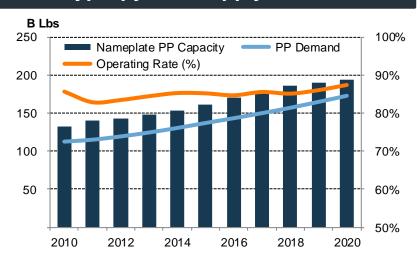


Source: EIA

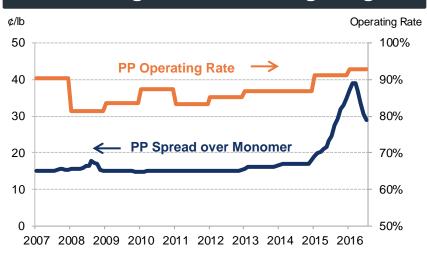
Global PP Supply/Demand



Polypropylene Supply / Demand



NA PP: Tight Market Driving Margin



Polypropylene Advantages

- · Low density, lightweight
- Impact resistance
- Recyclability
- Chemical resistance

- Wide temperature performance
- Plasticizer-free
- Replacement for higher-cost resins and PVC
- Abundant, low-priced propylene will enable continued PP growth.

Source: IHS. Spreads and margins depicted as 3-month moving averages. Spread is contract homopolymer less contract polymer-grade monomer price. Homopolymer prices prior to 2015 are adjusted to account for the January 2015 IHS non-market reduction. Margin is IHS discounted contract pre-tax non-integrated margin.

Status of Growth Projects



COMPLETED

PROGRESSING

				(\$ million		
Project	Scope (million Lbs.)	Start-up	Cost (\$ million)	2011-15 Avg. Margins		
Increase Ethane Capability	500	2012	~\$25	\$60 – 80		
Midwest Ethylene / PE	120	2012	~\$25	\$30 – 40		
EU Butadiene Expansion(2)	155	Mid 2013	~\$100	\$40 – 50		
Methanol Restart	250 MM Gal.	Dec. 2013	~\$180	\$210 – 230		
Matagorda PE Debottleneck	220	Early 2014	~\$20	\$5 – 10		
La Porte Ethylene Expansion	800	Mid 2014	~\$500	\$190 – 250		
Channelview Ethylene Expansion (I)	250	Mid 2015	~\$200	\$60 – 80		
Completed Projects			~\$1,050	\$595 – 740		
Corpus Christi Ethylene Expansion	800	Q3 2016	~\$800	\$190 – 250		
New PO/TBA Plant	1,000 PO 29 MBPD Oxyfuels	2020	~\$2,000 – 2,200	\$490 – 540		
HDPE Plant	1100	2019	~\$700	\$30 – 70		
Remaining Projects			~\$3,500 - 3,700	\$710 – 860		
Total			~\$4,550 - 4,750	\$1,305 – 1,600		
	Midwest Ethylene / PE EU Butadiene Expansion(2) Methanol Restart Matagorda PE Debottleneck La Porte Ethylene Expansion Channelview Ethylene Expansion (I) Completed Projects Corpus Christi Ethylene Expansion New PO/TBA Plant	Increase Ethane Capability Midwest Ethylene / PE EU Butadiene Expansion(2) Methanol Restart Matagorda PE Debottleneck La Porte Ethylene Expansion Channelview Ethylene Expansion (I) Completed Projects Corpus Christi Ethylene Expansion New PO/TBA Plant HDPE Plant (million Lbs.) 500 (million Lbs.) (public in the standard	Increase Ethane Capability 500 2012 Midwest Ethylene / PE 120 2012 EU Butadiene Expansion(2) 155 Mid 2013 Methanol Restart 250 MM Gal. Dec. 2013 Matagorda PE Debottleneck 220 Early 2014 La Porte Ethylene Expansion Channelview Ethylene Expansion (I) Completed Projects Corpus Christi Ethylene Expansion New PO/TBA Plant 1,000 PO 29 MBPD Oxyfuels HDPE Plant 1100 2019 Remaining Projects	Increase Ethane Capability 500 2012 -\$25 Midwest Ethylene / PE 120 2012 -\$25 EU Butadiene Expansion(2) 155 Mid 2013 -\$100 Methanol Restart 250 MM Gal. Dec. 2013 -\$180 Matagorda PE Debottleneck 220 Early 2014 -\$20 La Porte Ethylene 800 Mid 2014 -\$500 Expansion 250 Mid 2015 -\$200 Channelview Ethylene 250 Mid 2015 -\$200 Expansion (I) 250 Corpus Christi Ethylene 800 Q3 2016 -\$800 New PO/TBA Plant 1,000 PO 29 MBPD Oxyfuels 2020 -\$2,000 - 2,200 HDPE Plant 1100 2019 -\$700 Remaining Projects -\$3,500 - 3,700		

Potential EBITDA⁽¹⁾

(\$ million	n / year)
2011-15	2015
Avg. Margins	Margins
\$60 – 80	\$30 – 50
\$30 – 40	\$20 – 30
\$40 – 50	\$40 – 50
\$210 – 230	\$170 – 190
\$5 – 10	\$40 – 50
\$190 – 250	\$150 – 220
\$60 – 80	\$50 – 70
\$595 – 740	\$500 – 660
\$190 – 250	\$150 – 220
\$490 – 540	\$450 – 510
\$30 – 70	\$180 - 230
\$710 – 860	\$780 – 960
\$1,305 – 1,600	\$1,280 - 1,620

Source: LYB, Chemical Data and IHS.

⁽¹⁾ Potential EBITDA assumes 100% utilization and is based on third party consultant industry margins for 2015, and 2011-2015 average as of January 13, 2016.

⁽²⁾ The EU Butadiene expansion benefits from a fixed margin and thus the potential EBITDA benefit has not changed.

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 income from continuing operations excluding LCM, diluted earnings per share 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 recent 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.

While we also believe that free cash flow, free cash flow as a percent of average enterprise value, free cash flow as a percent of EBITDA, and average annual free cash flow as a percent of market cap are measures commonly used by investors. The 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. For purposes of this presentation, free cash flow means net cash provided by operating activities minus capital expenditures. Free cash flow as a percent of average enterprise value means the sum of the free cash flow for the period divided by the average enterprise value where the average enterprise value is calculated using the average daily closing share price for the period. Free cash flow as a percent of EBITDA means the sum of the free cash flow for the period divided by the sum of the EBITDA for the period. Average annual free cash flow as a percent of market cap means the yearly average of the free cash flow for the period divided by the market cap.

Additionally, EBITDA per pound of ethylene capacity and EV/EBITDA are measures which provide an indicator of firm value to investors. For purposes of this presentation, EBITDA per pound of ethylene capacity means annual segment EBITDA divided by end of year segment ethylene capacity in pounds and EV/EBITDA means the average enterprise value where the average enterprise value is calculated using the average daily closing share price for the period divided by the EBITDA for the period.

Reconciliations for our non-GAAP measures can be found on the following slides.

Glossary and Peer Groups



- COGS: Cost of Goods Sold
- D&A: Depreciation and Amortization
- EBITDA (as used for peers): Earnings before Interest, Taxes and Depreciation and Amortization = Revenue COGS SG&A R&D + D&A + Equity Income
- EV: Enterprise Value calculated using the average daily closing share price for the last 12 months ended June 30, 2015 multiplied by the common shares outstanding as of June 30, 2016.
- Free Cash Flow = Cash from Operations Capital Expenditures
- R&D: Research and Development
- SG&A: Sales, General and Administrative

Peer Groups

- Americas Peers: Dow, CP Chemical, Ineos and Westlake
- EAI Peers: Borealis and Ineos.
- Large Peers: Dow, DuPont
- Other Peers: Celanese, Eastman, Huntsman and Westlake
- · Peer Companies: Celanese, Dow, DuPont, Eastman, Huntsman and Westlake
- S&P 500: S&P 500 Index
- S&P Chemicals: S&P Chemicals Index
- U.S. Public Petrochemical Peers: Celanese, Dow, Eastman, Huntsman and Westlake

^{*} See reconciliations at end of presentation.

EBITDA Excluding LCM Adjustments 2011 - 2015



Reconciliation of EBITDA Excluding LCM Adjustments to EBITDA - 2011 Through 2015

	For the Twelve Months Ended December 31,											
In Million of Dollars		2011	2012		2013		2014		2015			
EBITDA Excluding LCM Adjustments:												
Olefins & Polyolefins - Americas	\$	2,137	\$	2,968	\$	3,573	\$	4,190	\$	3,821		
Olefins & Polyolefins - EAI		865		548		839		1,410		1,855		
Intermediates & Derivatives		1,410		1,621		1,492		1,552		1,656		
Refining		977		481		182		409		519		
Technology		191		197		232		232		243		
Other		(111)		(7)		(7)		17		(13)		
Total		5,469		5,808		6,311		7,810		8,081		
Less:												
LCM Adjustments:												
Olefins & Polyolefins - Americas		-		-		-		279		160		
Olefins & Polyolefins - EAI		-		-		-		44		30		
Intermediates & Derivatives		-		-		-		93		181		
Refining		-		-		-		344		177		
Technology		-		-		-		-		-		
Other		-		-		-		-		-		
Total								760		548		
EBITDA:												
Olefins & Polyolefins - Americas		2,137		2,968		3,573		3,911		3,661		
Olefins & Polyolefins - EAI		865		548		839		1,366		1,825		
Intermediates & Derivatives		1,410		1,621		1,492		1,459		1,475		
Refining		977		481		182		65		342		
Technology		191		197		232		232		243		
Other		(111)		(7)		(7)		17		(13)		
Total	\$	5,469	\$	5,808	\$	6,311	\$	7,050	\$	7,533		

Net Income to EBITDA 2011 - 2015



Reconciliation of Net Income to EBITDA

	For the Twelve Months Ended December 31,										
In Million of Dollars		2011		2012		2013		2014	2015		
Net Income	\$	2,140	\$	2,834	\$	3,853	\$	4,168	\$	4,474	
(Income) Loss from Discontinued Operations		332		24		7		4		5	
LCM Adjustments, After Tax		-						483		351	
Income from Continuing Operations Excluding LCM Adjustments		2,472		2,858		3,860		4,655		4,830	
Less:											
LCM Adjustments, After Tax								(483)		(351)	
Income from Continuing Operations		2,472		2,858		3,860		4,172		4,479	
Provision for Income Taxes		1,059		1,327		1,136		1,540		1,730	
Depreciation and Amortization		931		983		1,021		1,019		1,047	
Interest expense, net		1,007		640		294		319		277	
Add:											
LCM Adjustments, Before Tax								760		548	
EBITDA Excluding LCM Adjustments		5,469		5,808		6,311		7,810		8,081	
Less:											
LCM Adjustments, Before Tax								760		548	
EBITDA	\$	5,469	\$	5,808	\$	6,311	\$	7,050	\$	7,533	

EBITDA Excluding LCM Adjustments to Reported EBITDA



Reconciliation of EBITDA Excluding LCM Adjustments to EBITDA

		Three	Months Ended			Three Mo	nths Ended	Six Mon	ths Ended		Six Mon	Last Twelve Months	
In Millions of Dollars	March 31, 2015	June 30, 2015	September 30, 2015	December 31, 2015	2015	March 31, 2016	June 30, 2016	June 30, 2016	June 30, 2015	2015	June 30, 2015	June 30, 2016	June 30, 2016
EBITDA Excluding LCM Adjust								-					
Olefins & Polyolefins - Americas	\$ 1,074	\$ 993	\$ 920	\$ 834	\$ 3,821	\$ 878	\$ 754	\$ 1,632	\$ 2,067	\$ 3,821	\$ (2,067)	\$ 1,632	\$ 3,386
Olefins & Polyolefins - EAI	357	492	555	451	1,855	549	536	1,085	849	1,855	(849)	\$ 1,085	2,091
Intermediates & Derivatives	381	483	506	286	1,656	354	369	723	864	1,656	(864)	\$ 723	1,515
Refining	154	154	143	68	519	14	(13)	1	308	519	(308)	\$ 1	212
Technology	76	57	45	65	243	83	73	156	133	243	(133)	\$ 156	266
Other	2	(2)	13	(26)	(13)	(3)	(4)	(7)		(13)		\$ (7)	(20)
Total	2,044	2,177	2,182	1,678	8,081	1,875	1,715	3,590	4,221	8,081	(4,221)	3,590	7,450
Less:													
LCM Adjustments:													
Olefins & Polyolefins - Americas	43	(21)	79	59	160	-	-	-	22	160	(22)	-	138
Olefins & Polyolefins - EAI	-	-	6	24	30	40	(40)	-	-	30	-	-	30
Intermediates & Derivatives	44	17	46	74	181	28	(28)	-	61	181	(61)	-	120
Refining	5	(5)	50	127	177	-	-	-	-	177	-	-	177
Technology	-	-	-	-	-	-	-	-	-	-	-	-	-
Other													
Total	92	(9)	181	284	548	68	(68)		83	548	(83)		465
T. T													
EBITDA:	1.021	1.014	041	225	2.661	070	754	1 522	2015	0.661	(2.045)	1 500	2.240
Olefins & Poly olefins - Americas	1,031	1,014	841	775	3,661	878	754	1,632	2,045	3,661	(2,045)	1,632	3,248
Olefins & Polyolefins - EAI	357	492	549	427	1,825	509	576	1,085	849	1,825	(849)	1,085	2,061
Intermediates & Derivatives	337	466	460	212	1,475	326	397	723	803	1,475	(803)	723	1,395
Refining	149 76	159 57	93 45	(59) 65	342 243	14 83	(13) 73	1 156	308 133	342 243	(308)	1 156	35 266
Technology Other	2		13	(26)	(13)	(3)	(4)		155	(13)	(133)	(7)	(20)
Total	-	\$ 2.186	\$ 2,001	\$ 1,394		\$ 1,807	\$ 1,783	\$ 3,590	\$ 4,138		\$ (4,138)	\$ 3,590	\$ 6,985
1 Otal	\$ 1,952	\$ 2,186	φ 2,001	a 1,394	\$ 7,533	p 1,807	a 1,/85	a 5,390	a 4,138	\$ 7,533	a (4,138)	э э,э90	a 0,985

Net Income to EBITDA



Reconciliation of Net Income To EBITDA

		Three	Months Ended			Three Mont	hs Ended	Six Mont	ths Ended		Six Mon	ths Ended	Last Twelve Months
	March 31,	June 30,	September 30,	December 31,	2015	March 31,	June 30,	* 20.204	7 20 2017	2017	7 20 2015	7 20 2016	* 20.2014
In Millions of Dollars	2015	2015	2015	2015	2015	2016	2016	June 30, 2016	June 30, 2015	2015	June 30, 2015	June 30, 2016	June 30, 2016
Net Income	\$ 1,164	\$ 1,329	\$ 1,186	\$ 795	\$ 4,474	\$ 1,030	\$ 1,091	\$ 2,121	\$ 2,493	\$ 4,474	\$ (2,493)	\$ 2,121	\$ 4,102
(Income) Loss from Discontinued Operations	3	(3)	3	2	5	-	1	1	-	5	-	1	6
LCM Adjustments, After Tax	58	(6)	114	185	351	47	(47)		52_	351	(52)		299
Income from Continuing Operations Excluding LCM Adjustments	1,225	1,320	1,303	982	4,830	1,077	1,045	2,122	2,545	4,830	(2,545)	2,122	4,407
Less:													
LCM Adjustments, After Tax	(58)	6	(114)	(185)	(351)	(47)	47		(52)	(351)	52		(299)
Income from Continuing Operations	1,167	1,326	1,189	797	4,479	1,030	1,092	2,122	2,493	4,479	(2,493)	2,122	4,108
Provision for Income Taxes	440	541	487	262	1,730	432	346	778	981	1,730	(981)	778	1,527
Depreciation and Amortization	287	247	248	265	1,047	268	266	534	534	1,047	(534)	534	1,047
Interest expense, net	58	72	77	70	277	77	79	156	130	277	(130)	156	303
LCM Adjustments, Pre Tax	92	(9)	181	284	548	68	(68)	-	83	548	(83)	-	465
EBITDA Excluding LCM Adjustments	2,044	2,177	2,182	1,678	8,081	1,875	1,715	3,590	4,221	8,081	(4,221)	3,590	7,450
LCM Adjustments, Pre Tax	(92)	9	(181)	(284)	(548)	(68)	68		(83)	(548)	83		(465)
EBITDA	\$ 1,952	\$ 2,186	\$ 2,001	\$ 1,394	\$ 7,533	\$ 1,807	\$ 1,783	\$ 3,590	\$ 4,138	\$ 7,533	\$ (4,138)	\$ 3,590	\$ 6,985

Diluted EPS from Continuing Operations ex. LCM to Diluted EPS from Continuing Operations



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

	For th	e Twelve	Mont	hs Ended	Decei	mber 31,		
 2011	2	2012	2	2013		2014		2015
\$ 4.32	\$	4.96	\$	6.76	\$	8.92	\$	10.35
						0.92		0.75
\$ 4.32	\$	4.96	\$	6.76	\$	8.00	\$	9.60
	2011 \$ 4.32	2011 2 \$ 4.32 \$	2011 2012 \$ 4.32 \$ 4.96	2011 2012 \$ 4.32 \$ 4.96 - -	2011 2012 2013 \$ 4.32 \$ 4.96 \$ 6.76 - - -	2011 2012 2013 2 \$ 4.32 \$ 4.96 \$ 6.76 \$	\$ 4.32 \$ 4.96 \$ 6.76 \$ 8.92 - - - 0.92	2011 2012 2013 2014 <th< td=""></th<>

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

				Three	Month	ns Ended				1	Three Mont	hs En	ded		Six Mont	hs End	ed	T	Last welve onths
	Ma	rch 31,	Ju	ne 30,	Sept	tember 30,	De	cember 31,		M	arch 31,	Ju	ne 30,					Ju	ne 30,
		2015		2015		2015		2015	2015		2016		2016	June	30, 2016	June	30, 2015	2	2016
Diluted Earnings Per Share from Continuing Operations																			
Excluding LCM Adjustments	\$	2.54	\$	2.79	\$	2.80	\$	2.20	\$ 10.35	\$	2.48	\$	2.45	\$	4.93	\$	5.33	\$	9.94
Less:																			
LCM Adjustments		0.12		(0.02)		0.25		0.42	 0.75		0.11		(0.11)				0.11		0.68
Diluted Earnings Per Share	\$	2.42	\$	2.81	\$	2.55	\$	1.78	\$ 9.60	\$	2.37	\$	2.56	\$	4.93	\$	5.22	\$	9.26

Free Cash Flow to Net Cash Provided by Operating Activities



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

	For	the Years En	ded Decemb	er 31,		Three Month	ıs En	ded	Three Mo	onths	Ended		r the Year Ended		Six Mont	hs Er	ıded		st Twelve Months
In Millions of Dollars	2012	2013	2014	2015	М	Iarch 31, 2016		ine 30, 2016	arch 31, 2015		ine 30, 2015	Dec	cember 31, 2015	J	June 30, 2015	J	une 30, 2016	J	une 30, 2016
Free Cash Flow Add:	\$ 3,727	\$ 3,274	\$ 4,549	\$ 4,402	\$	773	\$	698	\$ 1,162	\$	1,168	\$	4,402	\$	(2,330)	\$	1,471	\$	3,543
Capital Expenditures	1,060	1,561	1,499	1,440		527		563	 306		278		1,440		(584)		1,090		1,946
Net Cash Provided by Operating Activities	\$4,787	\$ 4,835	\$ 6,048	\$ 5,842	\$	1,300	\$	1,261	\$ 1,468	\$	1,446	\$	5,842	\$	(2,914)	\$	2,561	\$	5,489

LYB Enterprise Value to EBITDA



Calculation of Ratio of LYB Enterprise Value (EV) to EBITDA Excluding LCM

In Million of Dollars except for common shares outstanding	g	
Common Shares Outstanding, June 30, 2016	419	9,381,566
Multiplied by:		
Closing Share Price, June 30, 2016	\$	86.01
Market Capitalization	\$	36,071
Add:		
Current Maturities of Long-Term Debt		4
Short-Term Debt		616
Long-Term Debt		8,485
Less:		
Cash		1,060
Short-Term Investments		1,023
Net Debt		7,022
Non-Controlling Interests		24
Enterprise Value		43,117
Divided by:		
Last 12 Months EBITDA Excluding LCM		7,450
Ratio of Enterprise Value to EBITDA Excluding LCM		5.8

Average Free Cash Flow as a Percent of EBITDA



Reconciliation of Average Free Cash Flow (2011 through 2015) as a Percent of EBITDA Excluding LCM Adjustments

	,		F	or the Ye	ars F	inded Dec	emb	er 31,		Av	erage
In Million of Dollars		2011		2012		2013		2014	2015	2011	1 - 2015
Net Cash Provided by Operating Activities	\$	2,860	\$	4,787	\$	4,835	\$	6,048	\$ 5,842	\$	4,874
Less:											
Capital Expenditures		1,050		1,060		1,561		1,499	1,440		1,322
Free Cash Flow	\$	1,810	\$	3,727	\$	3,274	\$	4,549	\$ 4,402	\$	3,552
EBITDA ex LCM	\$	5,469	\$	5,808	\$	6,311	\$	7,810	\$ 8,081	\$	6,696
Free Cash Flow as a Percent of EBITDA		33%		64%		52%		58%	54%		53%
											,

Free Cash Flow to Average Enterprise Value



Calculation of Ratio of Free Cash Flow to Average Enterprise Value (EV)

In	Million	of Dollars	except for	common	shares	outstanding

Free Cash Flow (2011-2015)	\$ 17,762
Average 2015 Enterprise Value	
Common Shares Outstanding, December 31, 2015 Multiplied by:	440,150,069
Average Daily Closing Share Price, 2015	 91.47
Market Capitalization	\$ 40,261
Add:	
Current Maturities of Long-Term Debt	4
Short-Term Debt	353
Long-Term Debt	7,671
Less:	
Cash	924
Short-Term Investments	 1,064
Net Debt	6,040
Non-Controlling Interests	24
Enterprise Value	\$ 46,325
Ratio of Free Cash Flow to Average Enterprise Value	 38%

Free Cash Flow as a Percent of Market Capitalization



Reconciliation of Free Cash Flow as a Percent of Market Capitalization - 2011 Through 2015

	,		F	or the Ye	ars I	Ended Dec	emb	er 31,		A	verage
In Million of Dollars		2011		2012		2013		2014	 2015	201	1 - 2015
Net Cash Provided by Operating Activities	\$	2,860	\$	4,787	\$	4,835	\$	6,048	\$ 5,842	\$	4,874
Less:											
Capital Expenditures		1,050		1,060		1,561		1,499	 1,440		1,322
Free Cash Flow	\$	1,810	\$	3,727	\$	3,274	\$	4,549	\$ 4,402	\$	3,552
Market Capitalization at December 31, 2015										\$	40,261
Free Cash Flow as a Percent of Market Capitalization											8.8%

Return on Invested Capital



Calculation of LYB Return on Invested Capital (ROIC)

	Ye	ears Ended	Decem	ber 31,
In Million of Dollars		2014		2015
Income from Continuing Operations			\$	4,479
Add:				
Interest Expense, Net				277
Effective Tax Rate				27.9%
Interest Expense, Net, After Tax				200
Adjusted Income from Continuing Operations				4,679
Divided by:				
Average Invested Capital:				
Property, Plant & Equipment, Net	\$	8,758		8,991
Current Assets		11,645		9,789
Less:				
Current Liabilities		5,437		4,349
Cash and Cash Equivalents		1,031		924
	\$	13,935		13,507
Average Invested Capital			\$	13,721
Return on Invested Capital				34%

Dividends and Share Repurchases



Schedule of Spending for Dividends and Share Repurchases

	Fo	r the	Years En	ded I	December	: 31,			Т	hree Mo	nths I	Ended			the Year Ended		Six Mont	hs End	ed		Twelve onths
In Millions of Dollars	 2012		2013		2014		2015	rch 31, 2016		ne 30, 2016		rch 31, 2015	ne 30, 2015	Dec	ember 31, 2015	June	2015	June	30, 2016	June	30, 2016
Interim Dividends	\$ 833	\$	1,127	\$	1,403	\$	1,410	\$ 336	\$	362	\$	334	\$ 368	\$	1,410	\$	(702)	\$	698	\$	1,406
Special Dividends	 1,582							 					 								
	2,415		1,127		1,403		1,410	336		362		334	368		1,410		(702)		698		1,406
Repurchases of Ordinary Shares	 		1,949		5,788		4,656	 986	\$	696		1,359	\$ 778		4,656		(2,137)		1,682		4,201
Total	\$ 2,415	\$	3,076	\$	7,191	\$	6,066	\$ 1,322	\$	1,058	\$	1,693	\$ 1,146	\$	6,066	\$	(2,839)	\$	2,380	\$	5,607

Ratio of Shareholder Returns of Capital to Average Enterprise Value



Calculation of Ratio of Shareholder Returns of Capital (2011 - 2015) to Average Enterprise Value (EV)

In Million of Dollars except for share data

Shareholder Returns of Capital (2011 - 2015)		
Share Repurchases	\$	12,393
Special Dividends		4,162
Interim/Regular Dividends		5,086
		21,641
Average 2015 Enterprise Value		
Common Shares Outstanding, December 31, 2015		440,150,069
Multiplied by:		
Average Daily Closing Share Price, 2015		91.47
Market Capitalization	\$	40,261
Add:		
Current Maturities of Long-Term Debt		4
Short-Term Debt		353
Long-Term Debt		7,671
Less:		
Cash		924
Short-Term Investments		1,064
Net Debt		6,040
Non-Controlling Interests		24
Enterprise Value	\$	46,325
Ratio of Shareholder Returns of Capital (2011 - 2015) to Average	e Ente	rprise Value
Share Repurchases		27%
Special Dividends		9%
Interim/Regular Dividends		11%
Total		47%

EBITDA Excluding LCM per Average Pound of Ethylene Capacity



Reconciliation of EBITDA Excluding LCM per Average Pound of Ethylene Capacity

			1	For the Y	ears	Ended De	cem	ber 31,		
In Million of Dollars Unless Otherwise Indicated	•	2011	•	2012	r	2013	•	2014	•	2015
EBITDA Excluding LCM:										
O&P-Americas	\$	2,137	\$	2,968	\$	3,573	\$	4,190	\$	3,821
O&P–EAI		865		548		839		1,410		1,855
Average Annual Ethylene Capacity (Millions of Pounds):										
O&P–Americas		9,590		9,750		9,780		10,070		10,733
O&P–EAI		4,829		4,829		4,829		4,829		4,829
EBITDA Excluding LCM per Average Pound of Ethylene Capacity:										
O&P-Americas		22.3¢		30.4¢		36.5¢		41.6¢		35.6¢
O&P–EAI		17.9¢		11.3¢		17.4¢		29.2¢		38.4¢