



Goldman Sachs Basic Materials Conference

Doug Pike VP, Investor Relations May 17, 2016

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 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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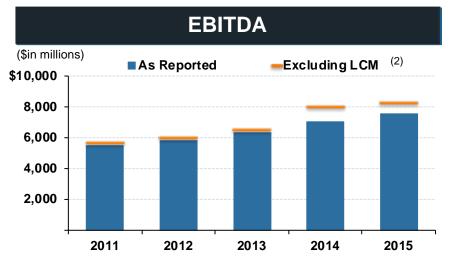
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World-Class Scale With Leading Positions



Who We Are

- \$40 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 56 manufacturing sites across 18 countries



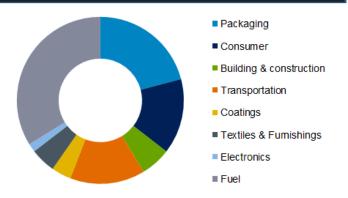
Our Products (3)	Capacit	y Posi	tion
Chemicals	Global	N Am	EU ⁽⁴⁾
Ethylene	#5	#2	#5
Propylene*	#5	#3	#6
Propylene Oxide	#2	#2	#2
Polymers			
Polyolefins (PE+PP)	#3	#3	#1
Polypropylene	#2	#1	#1
Polyethylene	#6	#3	#1
Polypropylene Compounds	#1	-	-
Fuels			
Oxyfuels	#1	#1	#1
Technology and R&D			
Polyolefin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

- (1) As of December 31, 2015
- 2) LCM stands for "lower 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.
- E) 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



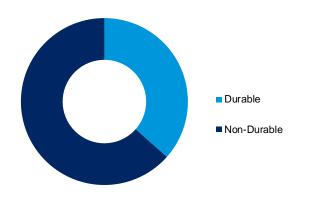
Revenue by End Use⁽¹⁾



2015 Revenue by Geography



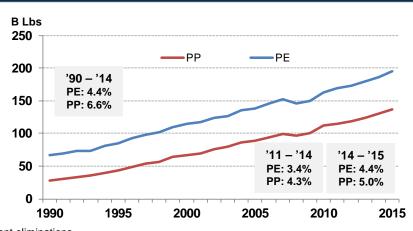
Durable / Non-Durable Revenue⁽¹⁾



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

Each Business is Operated to Maximize Results



<u>Segment</u>	LYB Market Position	<u>Priority</u>	2015 EBITDA (ex. LCM)
Olefins & Polyolefins – Americas	NGL advantageIncreasing capacity	Invest	\$3.8 B
Olefins & Polyolefins – EAI	 Commodities – naphtha based, with cyclical upside Advantaged feedstock Differentiated polymers 	Optimize	\$1.9 B
Intermediates & Derivatives (I&D)	Proprietary technologiesNatural gas advantage	Invest	\$1.7 B
Refining	Large, heavy crude refineryProcessing Canadian crude	Optimize	\$0.5 B
Technology	Strong technology positionMaintain leadership	Focus	\$0.2 B ⁽¹⁾

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

A High Performing Portfolio: EBITDA Across Time



Olefins & Polyolefins - Americas



Olefins & Polyolefins - EAI



Intermediates and Derivatives and Technology



Refining

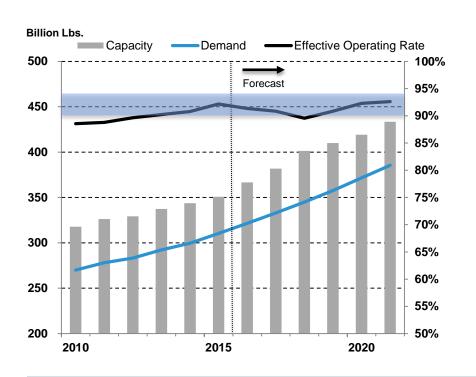


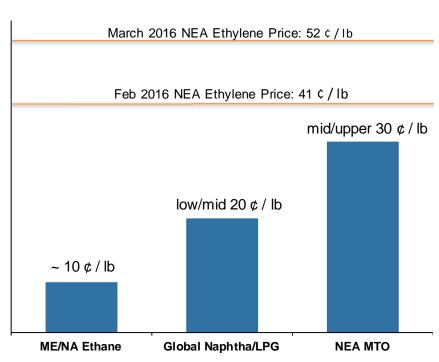
Strong Operating Rate and MTO Economics Appears To Support Global Pricing



Global Ethylene Supply / Demand (1)

March 2016 Global Ethylene Cash Cost and Prices (2)





- Global operating rates forecast to remain in the balanced/transition zone for coming years
- Advantaged feedstocks should see strong operating rates throughout the cycle
- MTO seems to provide a base for the global price; tight Asian supply/demand driving March higher

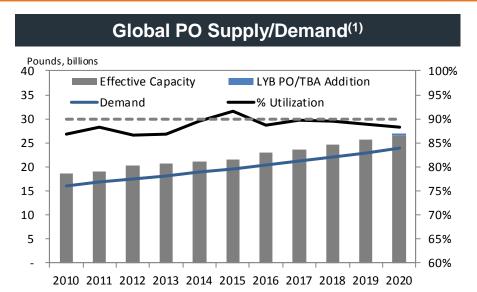
¹⁾ Source: IHS 2016 Balance Update

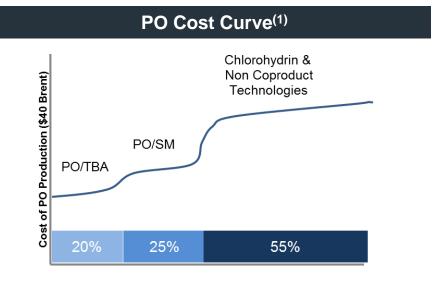
Source: IHS and LYB analysis

I&D

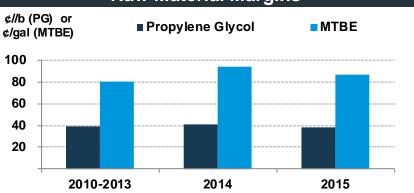
LYB Practices the Leading Technologies

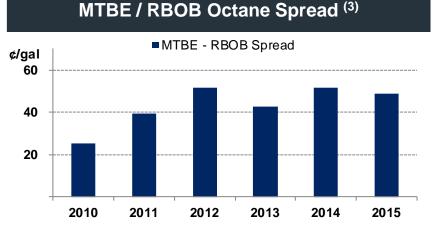






Propylene Glycol and MTBE Raw Material Margins ⁽²⁾





Sources: (1) LYB, IHS. (2) CDI (propylene glycol) and Platts. (3) IHS NWE MTBE spot prices.

Cash Deployment Hierarchy



		2015	Comments
	Base Capex	~ \$800 million	- First priorities for each
Foundation	Interest Expense	~ \$310 million	 First priorities for cash
	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

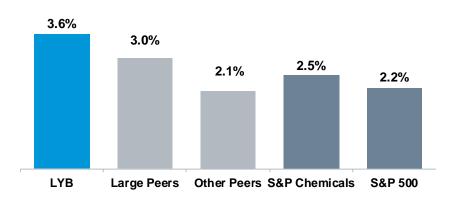
Source: LYB

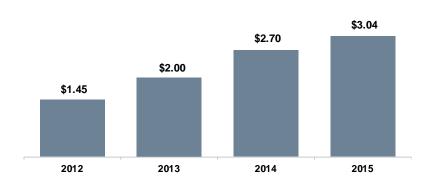
Leading in Dividends and Share Repurchases



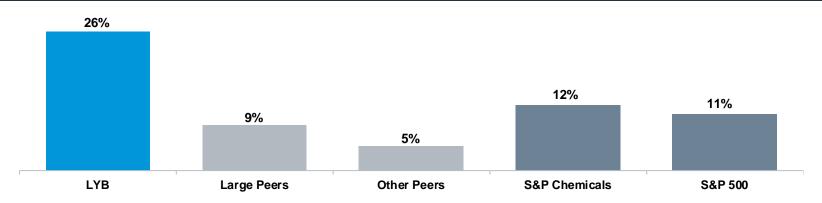


LYB Dividend Growth (per Share)⁽¹⁾





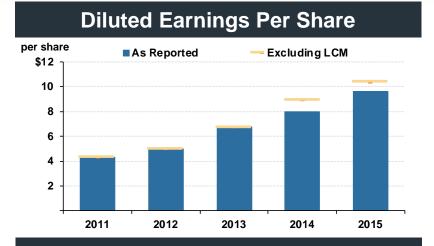
2011 – 2015 Share Repurchases as % of Avg. 2015 Enterprise Value

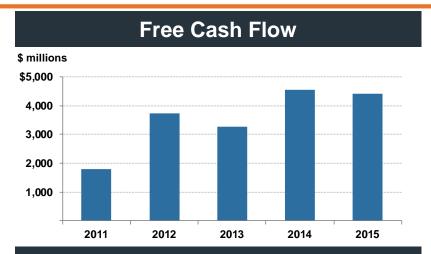


Source: Capital IQ as of December 31, 2015 (Share Repurchases) and March 31, 2016 (Dividend Yield). For definitions and peer group definitions, please see the Glossary in the Appendix to this presentation. (1) Excludes special dividends paid in 2012 of \$2.75 per share.

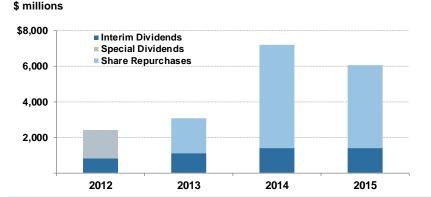
Outperformance coupled with a shareholder friendly approach







Dividends and Share Repurchases



Multiples

Multiples (trailing 12 months as of 12/31/15)	LYB	S&P Chemical Index	S&P 500
EV/EBITDA Excluding LCM ⁽¹⁾	5.7x	11.1x	10.5x
P/E ⁽²⁾	8.8x	22.0x	21.6x

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





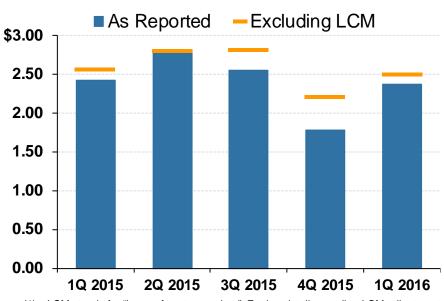
Appendix

1Q 2016 Highlights



	A	s Reporte	ed	Excluding LCM (1)			
(\$ in millions, except per share data)	1Q15	4Q15	1Q16	1Q15	4Q15	1Q16	
ЕВПОА	\$1,952	\$1,394	\$1,807	\$2,044	\$1,678	\$1,875	
Income from Continuing Operations	\$1,167	\$797	\$1,030	\$1,225	\$982	\$1,077	
Diluted Earnings (\$ / share) from Continuing Operations	\$2.42	\$1.78	\$2.37	\$2.54	\$2.20	\$2.48	

Strong EPS Performance



Highlights

- Polyolefins capturing strong O&P chain margins
- Improving seasonal markets
- Completed refinery turnaround
- Completed sale of Argentine subsidiary Petroken with gain of \$78 million; Completed second India PP compounding acquisition (Zylog) during early April
- Issued €750 million six-year euro bonds at 1.875% rate
- \$1.3 billion in 1Q16 share repurchases and dividends

⁽¹⁾ 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." Note: All results include \$78 million after-tax gain on sale of Petroken: \$57 million gain for O&P Americas for polypropylene assets and \$21 million gain for O&P EAI for compounding assets.

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

Highlights

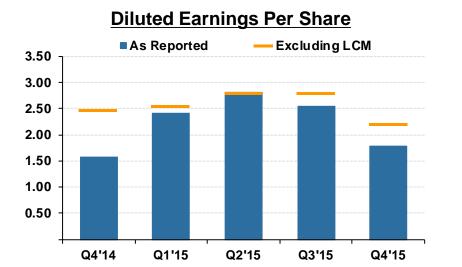


(\$ in millions, except per share data)	FY 2013	FY 2014 (As Reported)	FY 2015 (As Reported)	FY 2014 (ex. LCM) ⁽¹⁾	FY 2015 (ex. LCM)
EBITDA	\$6,311	\$7,050	\$7,533	\$7,810	\$8,081
Income from Continuing Operations	\$3,860	\$4,172	\$4,479	\$4,655	\$4,830
Diluted Earnings (\$ / share) from Continuing Operations	\$6.76	\$8.00	\$9.60	\$8.92	\$10.35

Record Annual EBITDA ex LCM: \$8.1 Billion

(\$ in millions) EBITDA **As Reported Excluding LCM 2,000 1,500 1,000 4Q'14 1Q'15 2Q'15 3Q'15 4Q'15

2015 Diluted EPS Growth ex LCM >15% vs. 2014

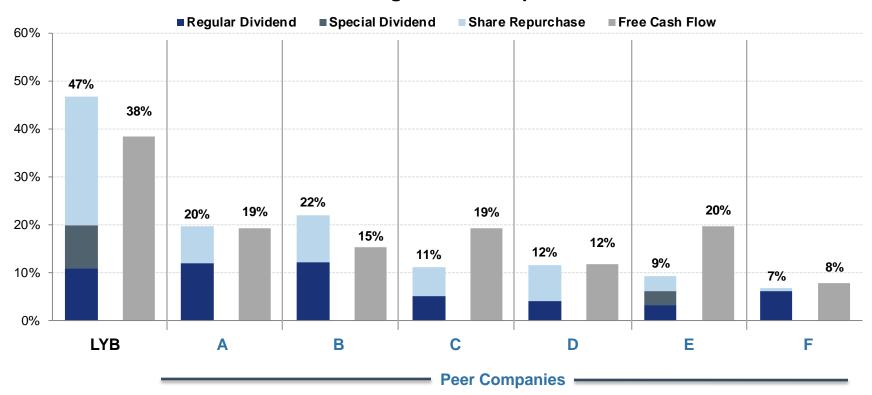


(1) LCM stands for "lower of cost or market." Further detail regarding LCM adjustments can be found in the Appendix under "Information Related to Financial Measures."

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

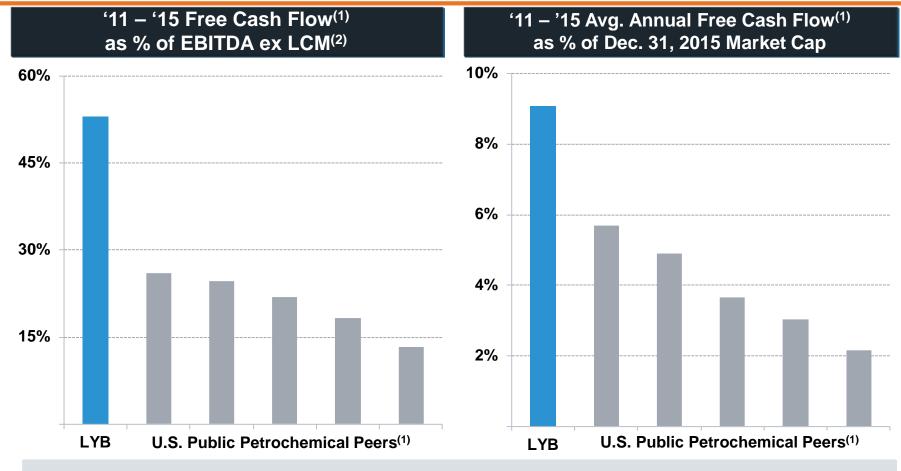
Source: SEC filings, Bloomberg, CapitalIQ

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

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

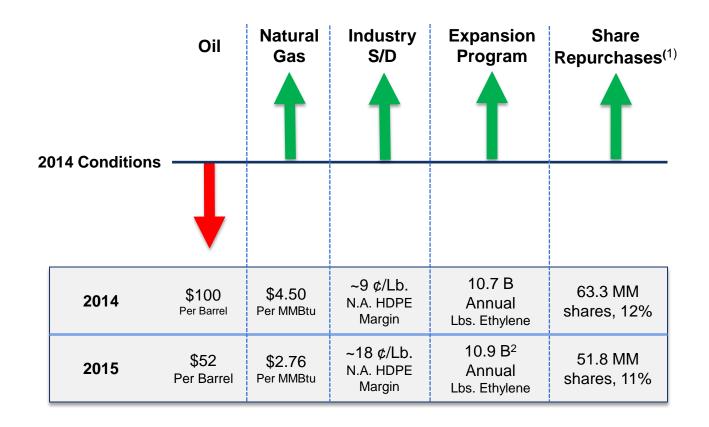
Notes: LYB calculations are based on as reported line items. Peer calculations are based on Capital IQ calculated line items.

(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.

Strong 2015 EPS Despite Oil Decline





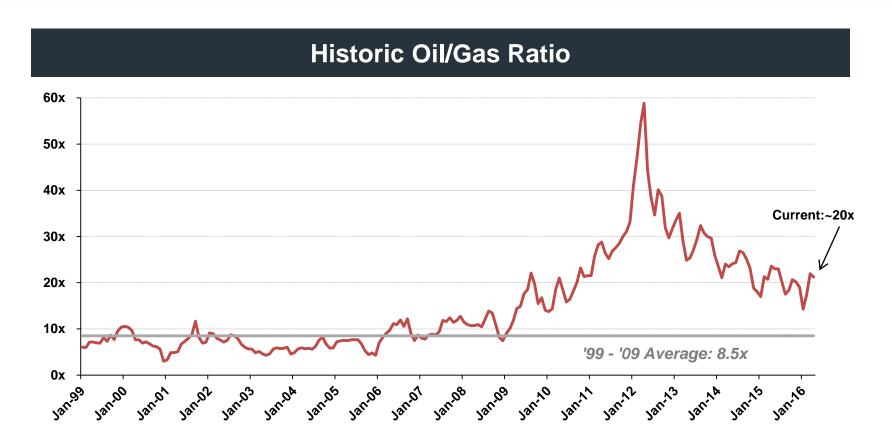
EPS is supported by low U.S. natural gas prices, tightened market conditions, our expansion program, and share repurchases

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.





- 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 ~ \$15-20 per barrel

Source: NYMEX, ICE.

O&P Americas NGL Advantage with Flexible, Reliable Operations



EBITDA Performance

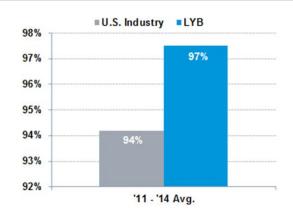


LYB Flexibility Maximum % Ethylene from Feedstock

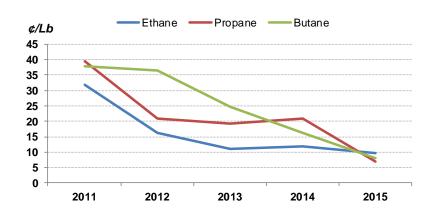
Feed	System
NGL	~90%
Ethane	~80%
Propane	~20%
Butane	~15%
Liquids	~55%
Minimum Liquids	~10%

Source: LYB Internal Estimates and IHS.

Operating Reliability vs. U.S. Industry



Cost of Ethylene Production



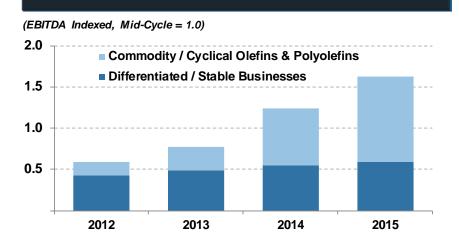
O&P – EAI Record EBITDA and a Restructured Business Approach



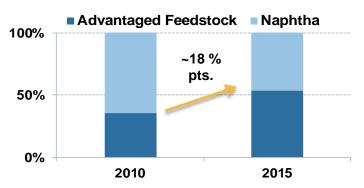
EBITDA Performance



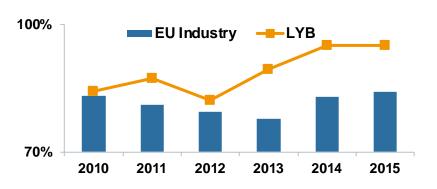
Indexed O&P EAI EBITDA(1)



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 adjustments.

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



Ethylene Capacity Growth

Propylene Capacity Growth (1)

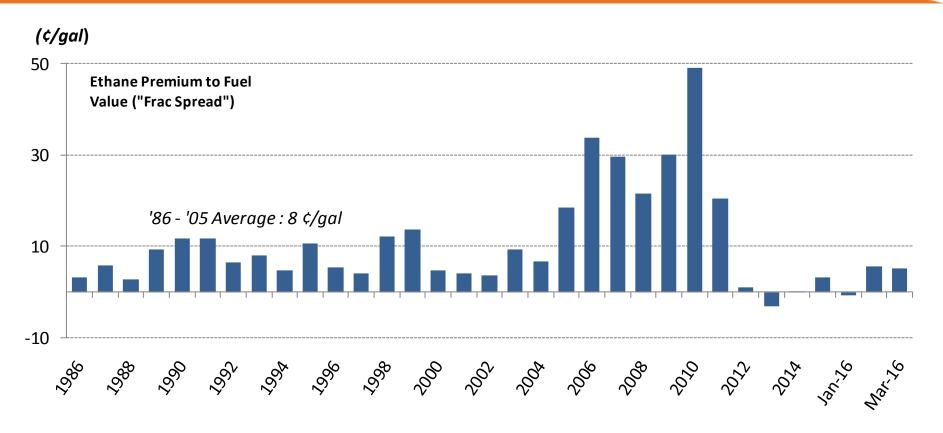


- Ethylene Demand Growth ~ 65 Blbs
- Ethylene Supply Growth ~ 75% conventional
- Propylene Demand Growth ~ 52 Blbs
- Propylene Supply Growth ~ 75% On-purpose

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

Ethane Frac Spread





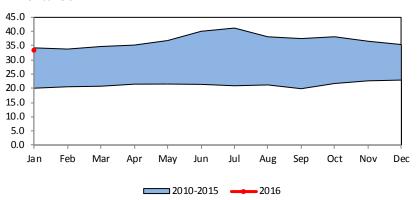
- Long term ethane has generally traded with an 8 ¢/gal frac spread
- Infrastructure constraints drove 2006 2012 premiums

Source: IHS

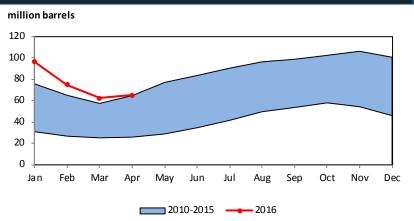
NGLs Remain Abundant



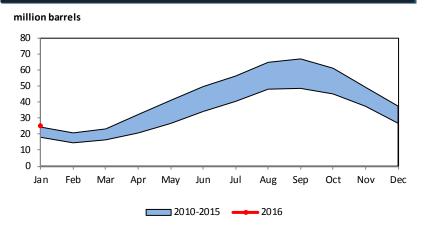




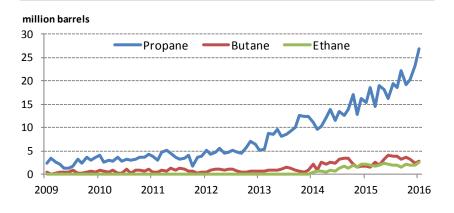
Propane Inventory



Butane Inventory



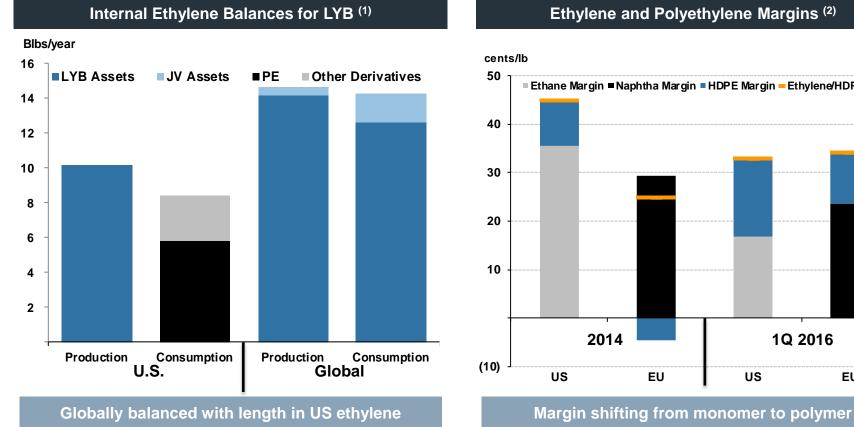
NGL Exports



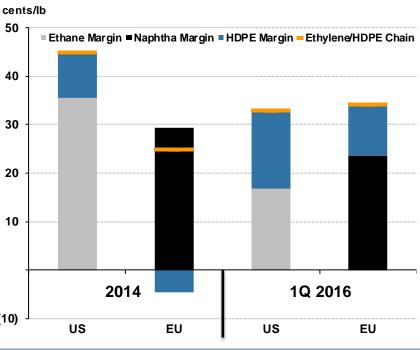
Source: EIA

O&P Profitability Shift to Polymers: LYB Benefitting from Strong Ethylene Integration





Ethylene and Polyethylene Margins (2)



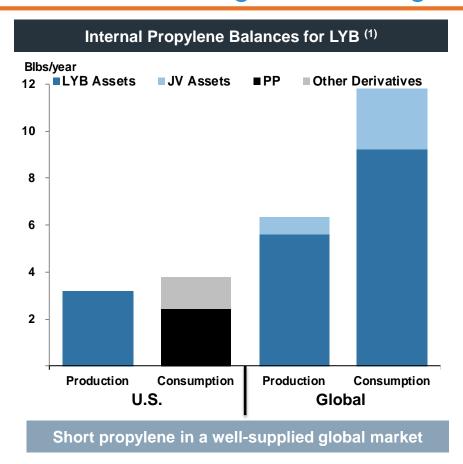
Benefitting from integration of monomer, polymer and other downstream derivatives

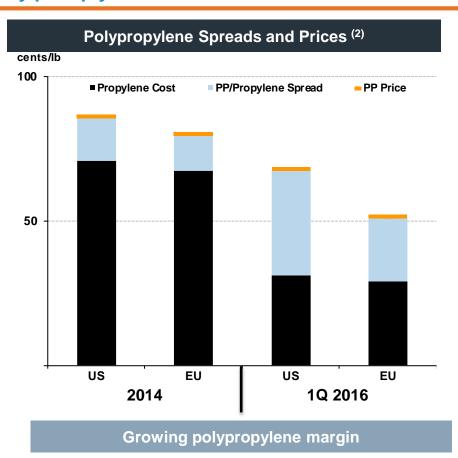
⁽¹⁾ Typical 2016 LYB production and consumption. Global capacities includes LYB share of JV capacities. Consumption includes PE, metathesis, ethylene oxide and derivatives, styrene, VAM. PP and ethanol.

⁽²⁾ Source: Industry data from IHS.

O&P Profitability Shift to Polymers: LYB Benefitting from Strong Polypropylene Position







Benefitting from strong polymer margins with a leading global position in polypropylene

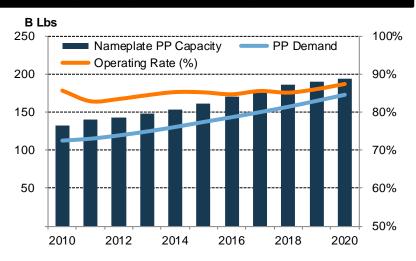
⁽¹⁾ Typical 2014 to 2016 LYB production and consumption. Global capacities includes LYB share of JV capacities. Production includes crackers, refinery and metathesis. Consumption includes polyolefins and propylene oxide and derivatives.

⁽²⁾ Source: Industry data from IHS.

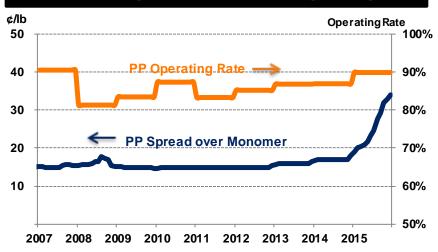
Global PP Supply/Demand



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.

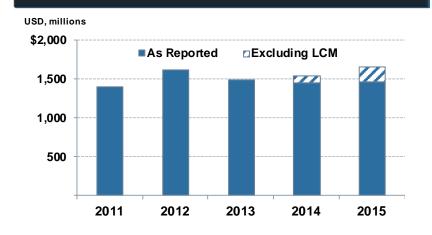
Source: IHS. Spreads and margins depicted as 3-month moving averages. Spread is contract homopolymer less contract polymer-grade monomer price. Homopolymer prices prior to 2015 are adjusted to account for the January 2015 IHS non-market reduction. Margin is IHS discounted contract pre-tax non-integrated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

I&D

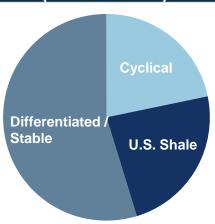
Segment Diversity: a Platform for Stable Profitability



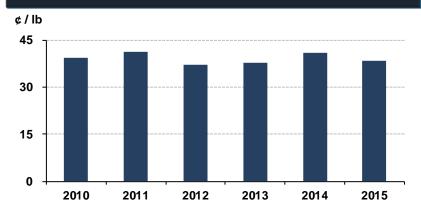
EBITDA Performance



Differentiated Proprietary Technology (2015 EBITDA)



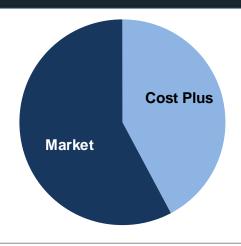
Propylene Glycol Raw Material Margin



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

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

Contracting Strategy⁽¹⁾



Status of Growth Projects



2015

Margins \$30 - 50

\$20 - 30\$40 - 50

\$170 - 190

\$40 - 50

\$150 - 220

\$50 - 70

\$500 - 660

\$150 - 220

\$450 - 500

\$150 - 200

\$750 - 920

\$1,250 - 1,580

Potential EBITDA⁽¹⁾ (\$ million / year)

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	In Progress	\$190 – 250
New PO/TBA Plant	1,000 PO 29 MBPD Oxyfuels	2020	In Progress	\$500 – 550
PE Capacity	1000	2019 / 2020	In Progress	\$25 – 75
Remaining Projects				\$715 – 875
Total				\$1,310 – 1,615

Source: LYB, Chemical Data and IHS.

COMPLETED

PROGRESSING

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 is a measure commonly used by investors. Free cash flow, 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.

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 December 31, 2015 multiplied by the common shares outstanding as of December 31, 2015.
- Free Cash Flow = Cash from Operations Capital Expenditures
- R&D: Research and Development
- SG&A: Sales, General and Administrative

Peer Groups

- U.S. Public Petrochemical Peers: Celanese, Dow, Eastman, Huntsman and Westlake
- Peer Companies: Celanese, Dow, DuPont, Eastman, Huntsman and Westlake
- Large Peers: Dow, DuPont
- Other Peers: Celanese, Eastman, Huntsman, Westlake

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

			T	hree N	Months Ended			Year Ended	l		,	Three	Months E	nded			Yea	r Ended	Months
In Millions of Dollars	March 201	,	June 3 2014		S eptember 30, 2014	De	ecember 31, 2014	December 3: 2014	1,	M	arch 31, 2015		ine 30, 2015		nber 30, 015	ember 31, 2015		mber 31, 2015	rch 31, 2016
EBITDA Excluding LCM Adjustments:																			
Olefins & Polyolefins - Americas	\$	736	\$	978	\$ 1,202	\$	1,274	\$ 4,1	90	\$	1,074	\$	993	\$	920	\$ 834	\$	3,821	\$ 878
Olefins & Polyolefins - EAI		356		319	343		392	1,4	10		357		492		555	451		1,855	549
Intermediates & Derivatives		375		430	383		364	1,5	52		381		483		506	286		1,656	354
Refining		129		137	110		33	4	09		154		154		143	68		519	14
Technology		76		71	41		44	2	32		76		57		45	65		243	83
Other		(4)		6	1		14		17		2		(2)		13	(26)		(13)	(3)
Total	1	,668	1,	,941	2,080		2,121	7,8	10		2,044		2,177		2,182	1,678		8,081	1,875
Less:																			
LCM Adjustments:																			
Olefins & Polyolefins - Americas		-		-	45		234	2	79		43		(21)		79	59		160	-
Olefins & Polyolefins - EAI		-		-	-		44		44		-		-		6	24		30	40
Intermediates & Derivatives		-		-	-		93	!	93		44		17		46	74		181	28
Refining		-		-	-		344	3-	44		5		(5)		50	127		177	-
Technology		-		-	-		-	-			-		-		-	-		-	-
Other				-			-				-		-			-		-	-
Total		<u> </u>			45	-	715	70	50_		92		(9)		181	 284		548	 68
EBITDA:																			
Olefins & Polyolefins - Americas		736		978	1,157		1,040	3,9			1,031		1,014		841	775		3,661	878
Olefins & Polyolefins - EAI		356		319	343		348	1,30	56		357		492		549	427		1,825	509
Intermediates & Derivatives		375		430	383		271	1,45	59		337		466		460	212		1,475	326
Refining		129		137	110		(311)		55		149		159		93	(59)		342	14
Technology		76		71	41		44	23	32		76		57		45	65		243	83
Other		(4)		6	1		14		17		2		(2)		13	 (26)		(13)	 (3)
Total	\$ 1	,668	\$ 1,	,941	\$ 2,035	\$	1,406	\$ 7,0	50	\$	1,952	\$	2,186	\$	2,001	\$ 1,394	\$	7,533	\$ 1,807

Net Income to EBITDA



Reconciliation of Net Income To EBITDA

			Three	Months Ended		Year Ended		Three I	Months Ended		Year Ended	Three Months Ended
In Millions of Dollars	Marc 20	ch 31, 014	June 30, 2014	September 30, 2014	December 31, 2014	December 31, 2014	March 31 2015	June 30, 2015	S eptember 30, 2015	December 31, 2015	December 31, 2015	March 31, 2016
Net Income	\$	944	\$ 1,176	\$ 1,257	\$ 791	\$ 4,168	\$ 1,164	\$ 1,329	\$ 1,186	\$ 795	\$ 4,474	\$ 1,030
(Income) Loss from Discontinued Operations		(1)	(3)	3	5	4	3	(3)	3	2	5	0
LCM Adjustments, After Tax				28	455	483	58	(6)	114	185	351	47
Income from Continuing Operations Excluding LCM Adjustments	;	943	1,173	1,288	1,251	4,655	1,225	1,320	1,303	982	4,830	1,077
Less:												
LCM Adjustments, After Tax	-	_		(28)	(455)	(483)	(58)	6	(114)	(185)	(351)	(47)
Income from Continuing Operations		943	1,173	1,260	796	4,172	1,167	1,326	1,189	797	4,479	1,030
Provision for Income Taxes		383	425	434	298	1,540	440	541	487	262	1,730	432
Depreciation and Amortization		256	254	262	247	1,019	287	247	248	265	1,047	268
Interest expense, net		86	89	79	65	319	58	72	77	70	277	77
Add:												
LCM Adjustments, Pre Tax		-	-	45	715	760	92	(9)	181	284	548	68
EBITDA Excluding LCM Adjustments		1,668	1,941	2,080	2,121	7,810	2,044	2,177	2,182	1,678	8,081	1,875
Less:												
LCM Adjustments, Pre Tax		-		(45)	(715)	(760)	(92)	9	(181)	(284)	(548)	(68)
EBITDA	\$	1,668	\$ 1,941	\$ 2,035	\$ 1,406	\$ 7,050	\$ 1,952	\$ 2,186	\$ 2,001	\$ 1,394	\$ 7,533	\$ 1,807

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 the Twelve Months Ended December 31,									
		2011	2	2012	2	2013	2	2014		2015
Diluted Earnings Per Share from Continuing Operations Excluding LCM Adjustments	\$	4.32	\$	4.96	\$	6.76	\$	8.92	\$	10.35
Less:										
LCM Adjustments								0.92		0.75
Diluted Earnings Per Share from Continuing Operations	\$	4.32	\$	4.96	\$	6.76	\$	8.00	\$	9.60

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

	Three Months Ended											
	December 31, 2014		March 31, 2015		June 30, 2015		September 30, 2015		December 31, 2015		M	arch 31, 2016
Diluted Earnings Per Share Excluding LCM Adjustments Less:	\$	2.48	\$	2.54	\$	2.79	\$	2.80	\$	2.20	\$	2.48
LCM Adjustments		0.91		0.12		(0.02)		0.25		0.42		0.11
Diluted Earnings Per Share	\$	1.57	\$	2.42	\$	2.81	\$	2.55	\$	1.78	\$	2.37

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 Ended December 31,												
In Million of Dollars	2011		2012 201		2013	2014			2015				
Free Cash Flow	\$	1,810	\$	3,727	\$	3,274	\$	4,549	\$	4,402			
Add:													
Capital Expenditures		1,050		1,060		1,561		1,499		1,440			
Net Cash Provided by Operating Activities	\$	2,860	\$	4,787	\$	4,835	\$	6,048	\$	5,842			

LYB Enterprise Value to EBITDA



$Calculation \ of \ Ratio \ of \ LYB \ Enterprise \ Value \ (EV) \ to \ EB ITDA \ Excluding \ LCM$

In Million of Dollars except for common shares outstanding	
Common Shares Outstanding, December 31, 2015	440,150,069
Multiplied by:	
Average Daily Closing Share Price, LTM December 31, 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
Divided by:	
2015 EBITDA Excluding LCM	\$ 8,081
Ratio of Enterprise Value to EBITDA Excluding LCM	5.7

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

	For the Years Ended December 31,										Average	
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
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		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 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

	For the Years Ended December 31,											erage
In Million of Dollars		2011		2012		2013		2014		2015	2011	- 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												9%

Return on Invested Capital



Calculation of LYB Return on Invested Capital (ROIC)

	Ye	ears Ended	December 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

	Years Ended December 31,										
In Millions of Dollars	2012		:	2013		2014		2015			
Interim Dividends	\$	833	\$	1,127	\$	1,403	\$	1,410			
Special Dividends		1,582		_		-					
Total Dividends		2,415		1,127		1,403		1,410			
Repurchases of Ordinary Shares		-		1,949		5,788		4,656			
Total	\$	2,415	\$	3,076	\$	7,191	\$	6,066			

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 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 Shareholder Returns of Capital (2011 - 2015) to Average	Ente	erprise Value
Share Repurchases		27%
Special Dividends		9%

Interim/Regular Dividends

Total