Investor Day

Value-Driven Growth

New York Stock Exchange April 5, 2017



Agenda



11:30 – 12:30	Lunch	Management Team
12:30	Welcome and Agenda	Dave Kinney
12:40	Value-Driven Growth	Bob Patel
1:15	Value-Driven Growth	Thomas Aebischer
1:45	Q&A	Bob Patel and Thomas Aebischer
2:00	Break	
2:15	Olefins and Polyolefins – Overview	Bob Patel
2:30	Olefins and Polyolefins - Americas	Paul Augustowski
2:55	Olefins and Polyolefins - Europe, Asia, International (EAI)	Richard Roudeix
3:20	Intermediates & Derivatives	Jim Guilfoyle
3:45	Refining, Manufacturing, Projects	Dan Coombs
4:10	Concluding Remarks	Bob Patel
4:30	Q&A	Management Team
5:00	Reception: Cocktails/Hors d'oeuvres	Management Team

Cautionary Statement



The statements in this presentation relating to matters that are not historical facts are forward-looking statements. These forwardlooking 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 forwardlooking statements can be found in the "Risk Factors" section of our Form 10-K for the year ended December 31, 2016, which can be found at www.lyondellbasell.com on the Investor Relations page and on the Securities and Exchange Commission's website at www.sec.gov.

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

This presentation contains time sensitive information that is accurate only as of the date hereof. Information contained in this presentation is unaudited and is subject to change. We undertake no obligation to update the information presented herein except as required by law.

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

Iyondellbasell Investor Day

Value-Driven Growth

Bob Patel
Chief Executive Officer

New York Stock Exchange April 5, 2017



LyondellBasell Today





\$29.2 B

2016 Revenue

\$6.6 B

2016 EBITDA Ex. LCM (1)

\$9.20

2016 Diluted EPS Ex. LCM

\$3.4 B

2016 Free Cash Flow

Segments

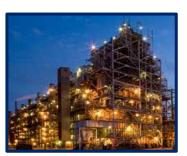
Olefins & Polyolefins *Americas*

Olefins & Polyolefins *Europe, Asia, International*

Intermediates & Derivatives

Refining

Technology



Channelview, TX (Olefins Cracker)



Maasvlakte, NL (Propylene Oxide)



Houston, TX (Refinery)



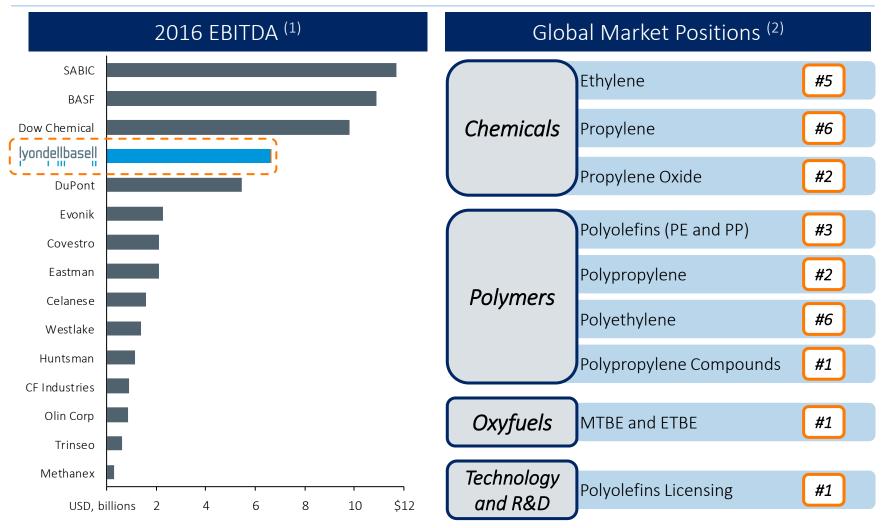
Catalysts and Licensing

(1) LCM stands for "lower of cost or market." Further detail regarding LCM adjustments can be found in the Appendix.

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Leading Scale and Market Positions

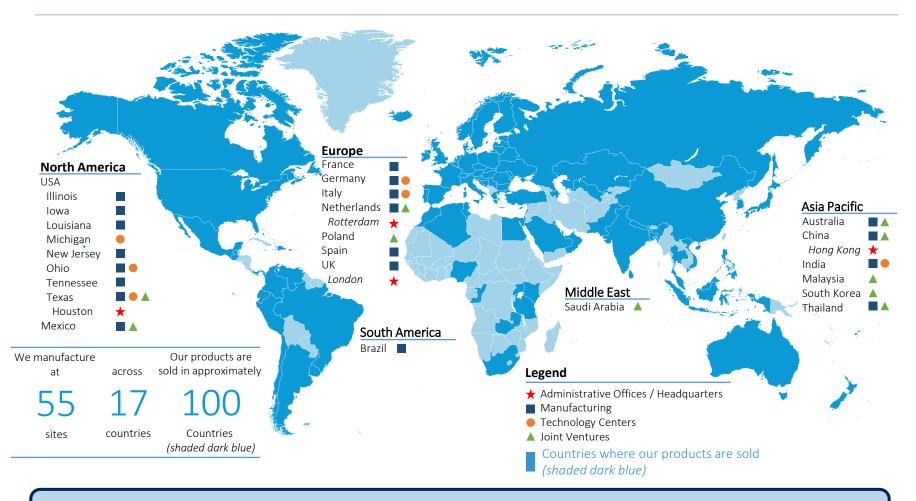




- (1) LYB EBITDA is ex. LCM. LCM is denoted by the orange section of the LYB bar. Source for others: FactSet.
- (2) Source: IHS, LYB. Reflects market positions of chemical-grade and polymer-grade propylene (not refinery-grade).

Significant Global Footprint





More than half of our 13,000 employees are outside the U.S.

Experienced Team





Bob Patel

- Chief Executive Officer and Chairman of Management Board
- 29 years of petrochemical experience



Thomas Aebischer

- Executive Vice
 President, Chief
 Financial Officer,
 Member of
 Management Board
- 34 years of financial experience



Paul Augustowski

- Senior Vice President, Olefins & Polyolefins, Americas
- 35 years of petrochemical experience



Dan Coombs

- Executive Vice
 President, Global
 Manufacturing,
 Projects, Refining and
 Technology
- Member of Management Board
- 39 years of petrochemical experience



Jim Guilfoyle

- Senior Vice
 President, Global
 Intermediates &
 Derivatives and
 Global Supply Chain
- Member of Management Board
- 24 years of petrochemical experience



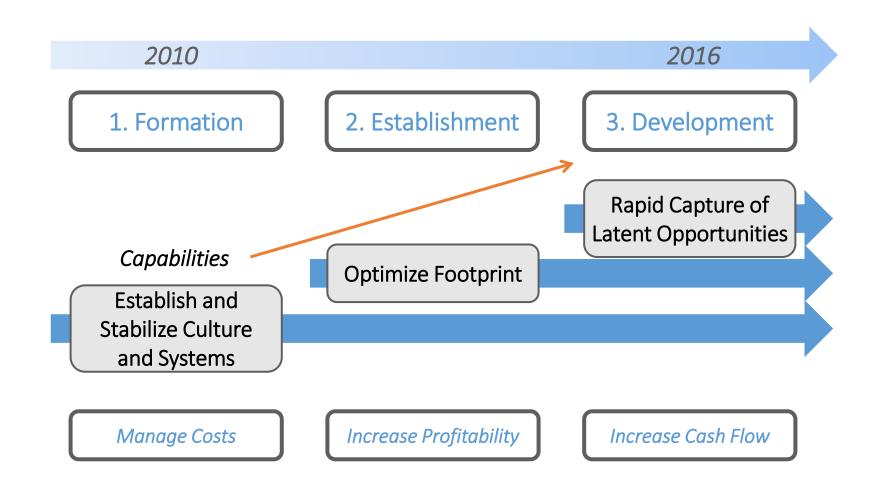
Richard Roudeix

- Senior Vice
 President, Olefins &
 Polyolefins, Europe,
 Asia and
 International
- 30 years of petrochemical experience

Over 190 years of relevant experience

LyondellBasell Followed a Methodical Path





Guided by a Clear and Value-Oriented Strategy





Achieve Top Quartile
Operations



| Practice Relentless | Cost Discipline



| Prudent | Financial Stewardship



Pursue Profitable
Organic Growth

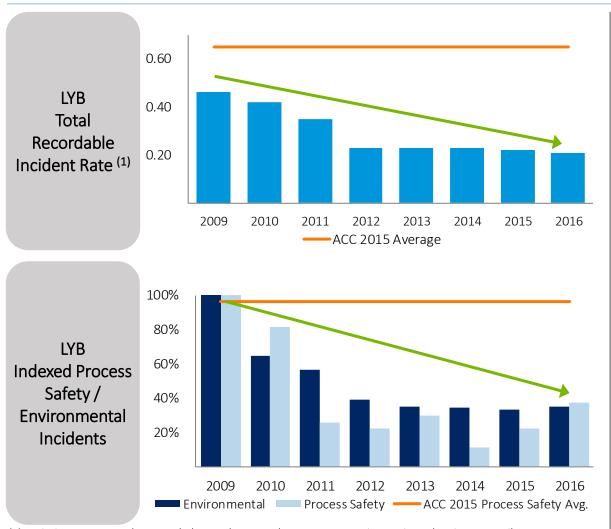


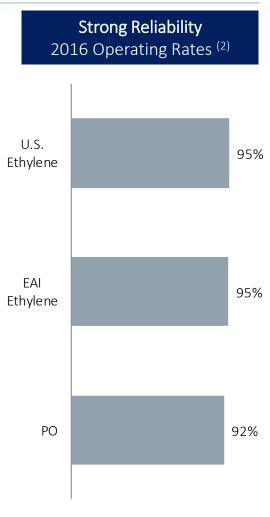
Capture Opportunities
In Cycles



Focus on Safety Drives Highly Reliable Operations





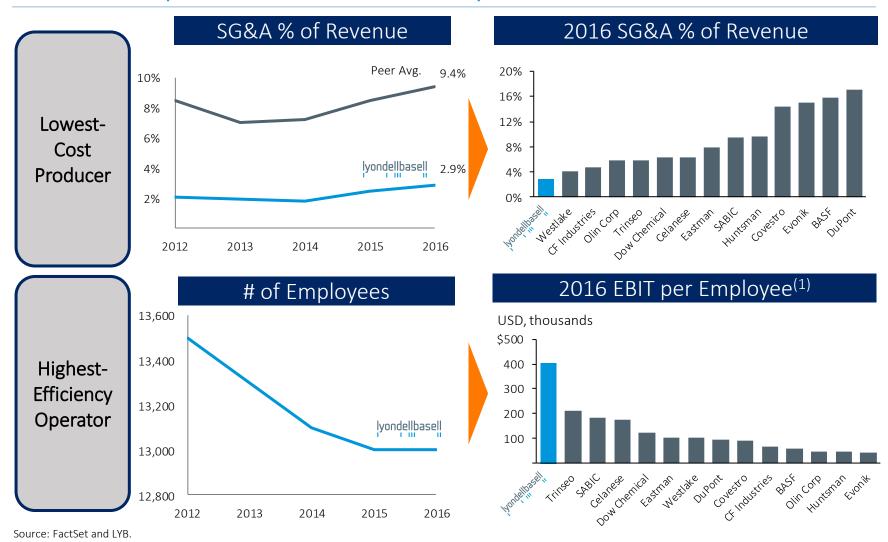


⁽¹⁾ Injuries per 200,000 hours. Includes employees and contractors. ACC is American Chemistry Council.

⁽²⁾ Excludes the impact of turnarounds.

Strong Operations Coupled with Cost Discipline and Productivity



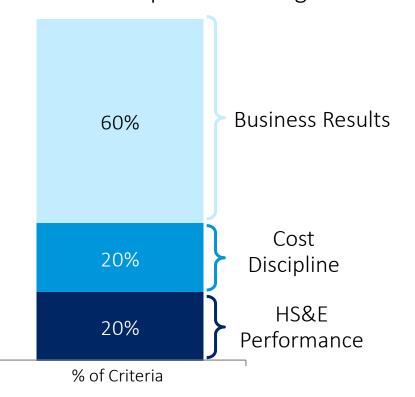


(1) LYB EBIT is income from continuing operations before income tax.

Performance Rigorously Benchmarked Employees Aligned with Shareholders



Short-Term Incentive Program aligned with annual performance goals...



...Long-Term Incentive Program tied to differentiated performance over 3-year horizon

Prior to 2016

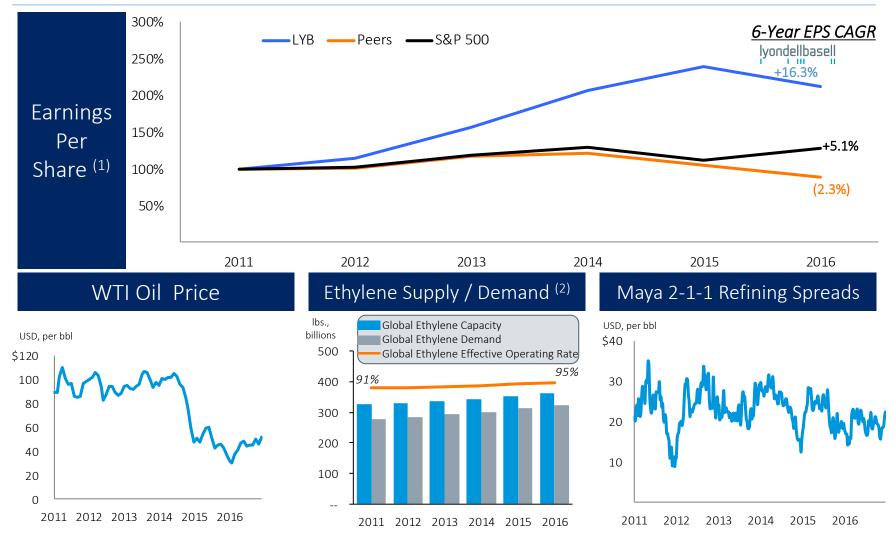
- Cost discipline
- Return on assets

2017 - Forward

Total shareholder returns

Our Approach Delivers Strong Results Under a Range of Conditions





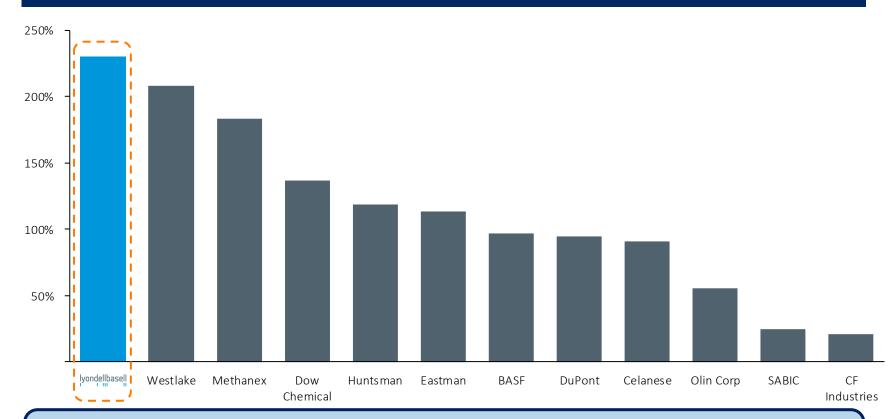
⁽¹⁾ Source: Factset. Peers are BASF, Celanese, CF Industries, Dow, DuPont, Eastman, Huntsman, Methanex, Sabic, Westlake. LYB is ex. LCM. Pees and S&P 500 rebased to LYB 2011 EPS ex. LCM of \$4.32 per share. CAGR is the compound annual growth rate of EPS from 2011 to 2016.

⁽²⁾ Source: IHS and LYB.

Delivering Leading Total Shareholder Returns



5-Year Total Shareholder Return vs. Peers (1)



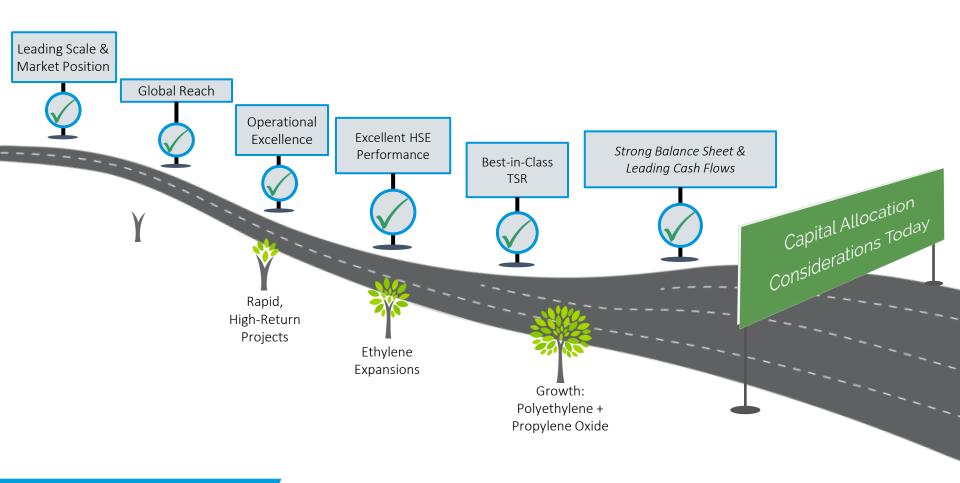
TSR outperformance vs. peers underpinned by strong cash flows, robust dividends and share repurchases

⁽¹⁾ Total shareholder return over period from Jan 1, 2012 to Dec. 31, 2016. Source: Factset.

Reached a Point in the Road Where Options Begin To Broaden

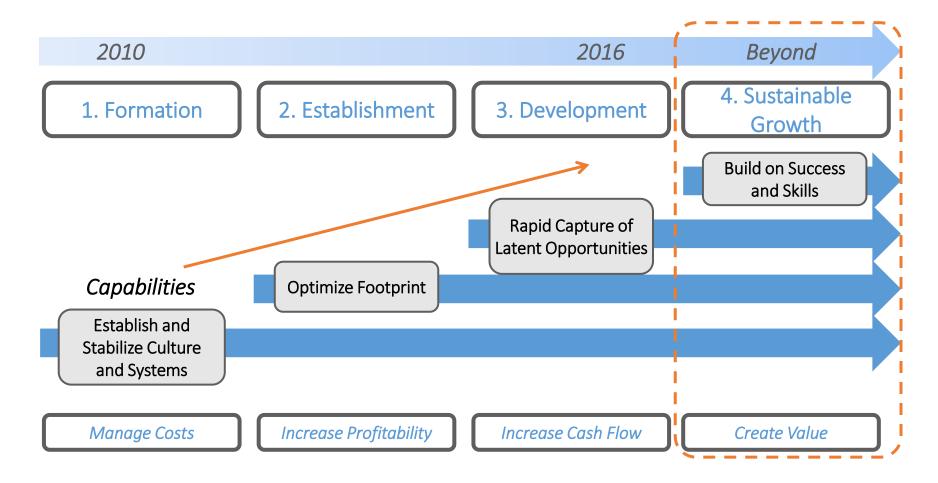


Where We've Been Where We Are Going



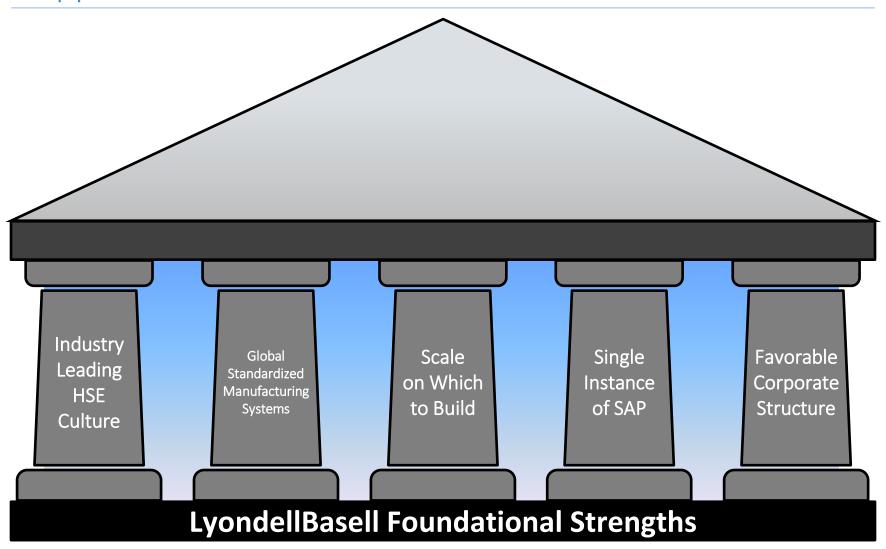
We Can Generate Value by Leveraging Skills and Strategy





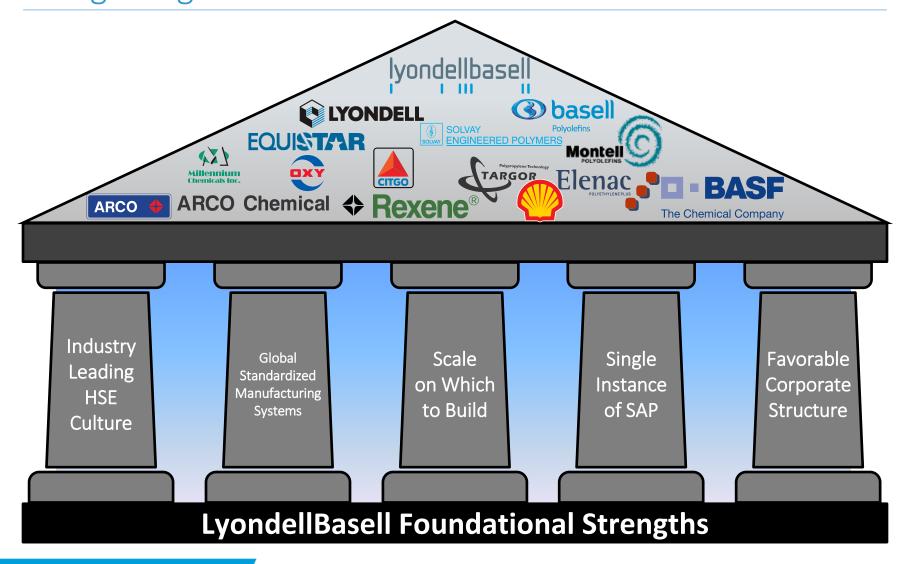
Foundation in Place to Support Growth . . .





... With a Demonstrated Heritage of Integrating Businesses





Our Foundation Is in Place: Value Can Be Generated by Leveraging Our Approach





Strive to Build on Our Strengths and Skills



	Well Head	Midstream	Refining	Olefins & Aromatics	Intermediates & Polymers	Performance & Eng. Resins	Electronic & Specialty	Bio & Pharma
Products	Crude Oil Natural Gas	Handling Fractionation Storage Shipping	Gasoline Diesel Fuel Jet Fuel	Ethylene Propylene Butadiene	PE, PP, PO, PVC, Isocyanates, Acetyls	Polycarbonate PP Compounds <i>Catalloy</i> Nylon Acetal	Seeds Pharmaceuticals Fragrances Herbicides Catalysts	
Industry Characteristics	Capital- Intensive Geology	Capital- Intensive Pipelines	Capital-Intensive Process Industry		Capital- Intensive Process Industry Tech Support	Process Industry Tech Support Design Support	Small Volumes Multiple Grades Unique End Use Expertise	R&D Intensive Consumer Safety Long Development Cycle
Success Characteristics	Exploration Development	Logistics Contracting	High Operating Rates/Reliability Lean Cost Structure Process Expertise Increasing Technical Service Support			Proprietary Technology Continuous Innovation		

World-Class Operator with Broad Options





Leading scale and market position



Best-in-class operator



Leading cash flow generation





Safe, strong, and sustainable dividend



Strong balance sheet

Multiple paths to shareholder value with a balanced capital allocation strategy and proven track record of success

Investor Day

Value-Driven Growth

Thomas Aebischer
Chief Financial Officer

New York Stock Exchange April 5, 2017



Strong Foundation on Which to Build



Past Success





Strong financial foundation with upside

Continue to be a thoughtful industry leader

- ✓ Excellent track record delivering EBITDA and EPS
- ✓ Peer-leading total shareholder return
- ✓ Strong and sustainable dividend yield
- ✓ Leading ROIC

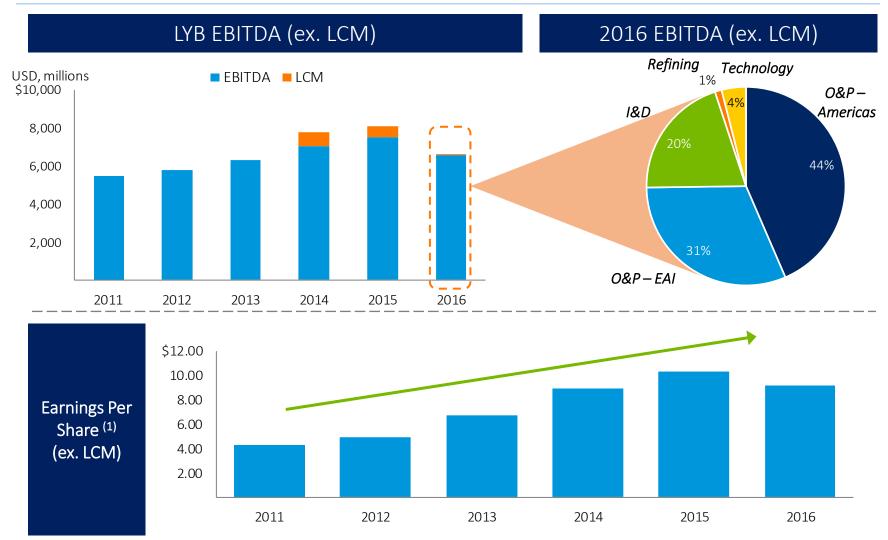


Future capital allocation driven by shareholder value

- ✓ Investing through organic growth
- ✓ Committed to strong capital returns
- Disciplined M&A criteria
- ✓ Many opportunities to drive value

LYB's Methodical Approach Established a Record of Strong Results

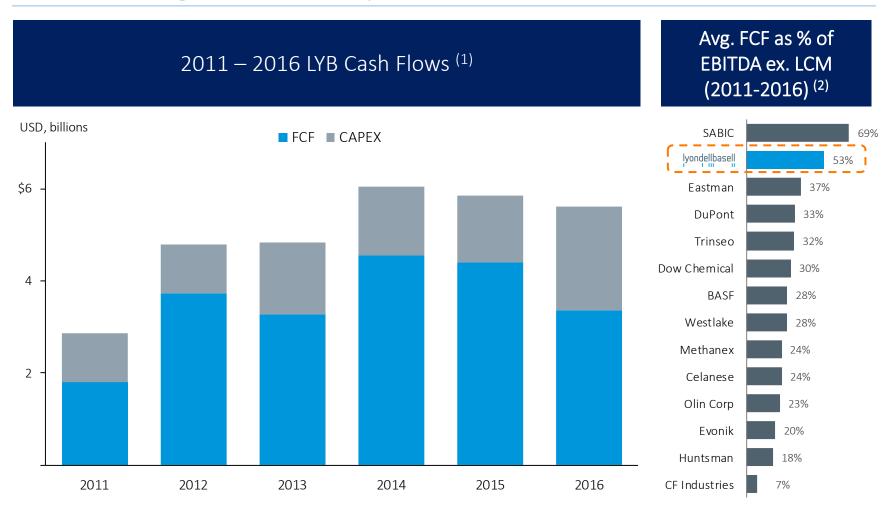




(1) Diluted earnings per share from continuing operations ex. LCM.

Industry-Leading Cash Flow Under a Broad Range of Industry Conditions



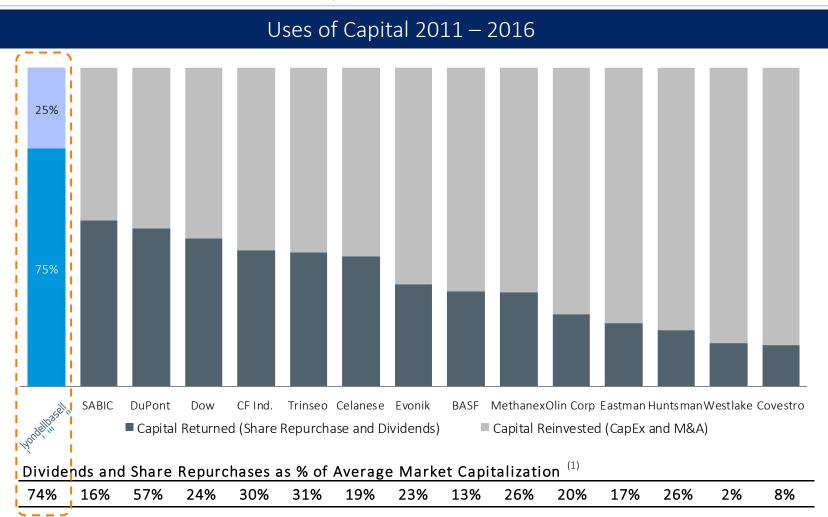


⁽¹⁾ Free cash flow (FCF) based on cash from operating activities less total capital expenditure (CAPEX).

²⁾ Source: CapitalIQ. Reflects average FCF as % of EBITDA from 2011-2016 except for peers with more recent IPOs.

Shareholders Benefitted from Peer-Leading Jyondellbasell Dividends and Share Repurchases





Source: Company filings, Factset and Capital IQ as of March 2017.

Reflects uses of capital from 2011-2016 except for peers with more recent IPOs.

⁽¹⁾ Reflects cumulative 2011-2016 dividends and share repurchases as a % of average market capitalizations from Dec. 2011 to Dec. 2016, except for peers with more recent IPOs.

Capital Deployment Hierarchy

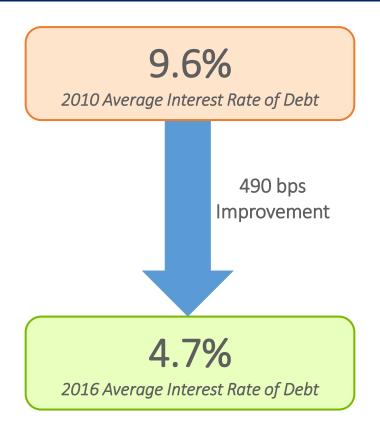


		2016	Comments		
	Base CapEx	~\$1.1 bn	First priorities for cash		
Foundation	Interest Expense	~\$0.3 bn			
	Dividend	~\$1.4 bn	Fund through the cycle with cash flow from operations		
Discretionary	Growth CapEx	~\$1.1 bn	High-return in advantaged businesses		
Opportunities	Special Dividends / Acquisitions /	~\$2.9 bn of share repurchases	 Discretionary cash returned to shareholders 		
	Share Repurchases		 M&A if value-creating and strategic 		

Debt Restructuring Generated Significant Value



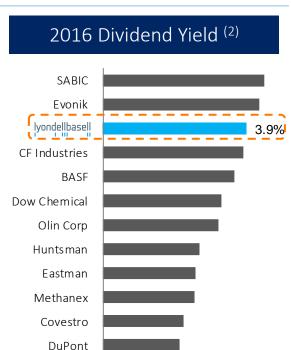
LyondellBasell Cost of Debt



We Are Committed to a Strong, Growing and Sustainable Dividend







Celanese

Trinseo

Westlake

Interim Dividends and Incremental Free Cash Flow (1)



- (1) FCF based on cash flow from operating activities less total capital expenditure.
- 2) Source: FactSet as of March 17, 2017.

More Organic Growth in Pipeline

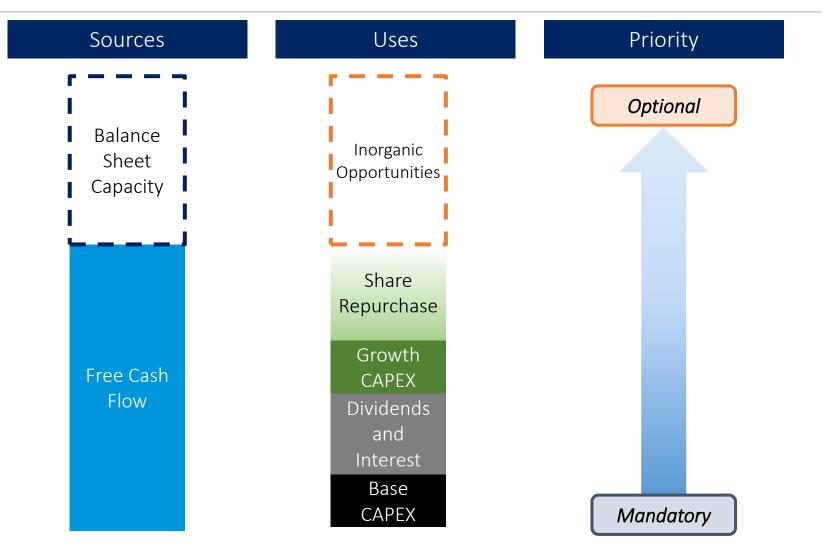


		Scope (MM lbs.)	Start-Up	CAPEX (\$MM)	Potential EBITDA (\$MM/year) '11-'16 Avg. Margins	
	Increase Ethane Capability	500	2012	~\$25	\$50 - \$70	
Projects	EU Butadiene Expansion	155	2013	~\$100	\$40 - \$50	
	Methanol Restart	250 MM Gal.	2013	~\$180	\$190-210	
Completed	Matagorda PE Debottleneck	220	2014	~\$20	\$10 - \$20	
Comp	U.S. Ethylene Expansions	~ 2,000	2012 - 2016	\$1,825	\$450 - \$600	CAPEX / EBITDA ⁽¹⁾
	TOTAL			~\$2,150	\$740 - \$950	2.5x
					Potential EBITDA (\$MM/year) 2016 Avg. Margins	
Future	Hyperzone HDPE	1,100	2019	~\$700 - \$750	\$150 - \$200	
Fut	New PO/TBA Plant	1,000 PO	2021	~\$2,000 - \$2,500	\$300 - \$400	

⁽¹⁾ EBITDA is average potential EBITDA using 2011 – 2016 average margins.

Our Balance Sheet Provides Capacity for Value-Driven Growth

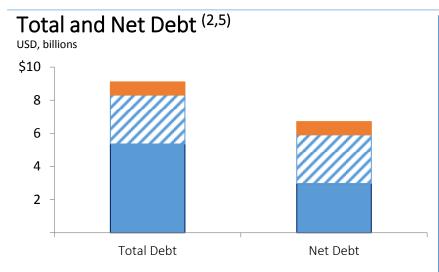




Debt Portfolio Characteristics

(As of 12/31/2016; Adjusted for Q1 Financing Activities)





Maturity Profile

USD, billions

\$5
4
3 - Commercial Paper
2 - 1
1 - 17 '18 '19 '20 '21 '22 '23 '24 '25 '26 '27+
■ USD ■ USD (economically swapped to EUR) ■ EUR

Liquidity

Over \$5 bn of liquidity (1)

Debt Characteristics (2)

■ Total Debt \$9.1 bn

■ Fixed to Floating Ratio ⁽³⁾ 74% to 26%

Weighted Average Maturity (4) 13.2 years

Weighted Average Cost of Debt4.51%

Total Funded Debt / EBITDA 1.4xex. I CM

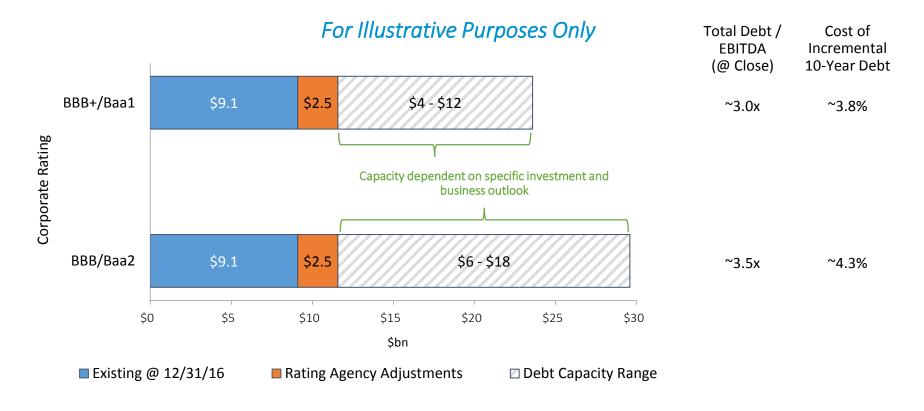
Currency Composition

- 59% USD Debt
- 41% EUR Debt, including ~\$2.95 bn economically swapped to EUR
- 1) ~\$2.4 bn of Cash, Short-Term Investments and Repurchase Agreements + ~\$2.7 bn of Undrawn Credit Facilities.
- (2) Debt is at par value, excludes capital leases and differs from reported figures.
- 3) Fixed to floating ratio based on a net debt basis and assuming a target cash balance of \$1.5 bn.
- 4) Weighted average maturity as of March 15, 2017.
- (5) Net Debt is total debt less cash and cash equivalents, short term investments and repurchase agreements.

Balance Sheet Capacity for Strategic Objectives



- M&A as a use of proceeds could temporarily enhance leverage capacity
- Requires commitment to pay down portion of debt within 24 months



A Process to Consider Inorganic Opportunities Focused on Value



M&A Considerations and Process

- Build on leading positions and technologies in core strengths
- Disciplined approach and process
- Strive to generate value, not just scale



Strategic Fit

- Strong fit with our core competencies
- Large-scale assets
- Leverages our corporate structure



Rigorous Financial Criteria

- Balance Sheet
 - Maintain investment grade
- Income Statement
 - Strengthen growth and margin profile
 - Improve earnings stability
 - Accretive to EPS within 2 years
- Return Expectations
 - IRR in excess of 12%
- Significant synergy potential

Investor Day

Value-Driven Growth

Bob Patel
Chief Executive Officer

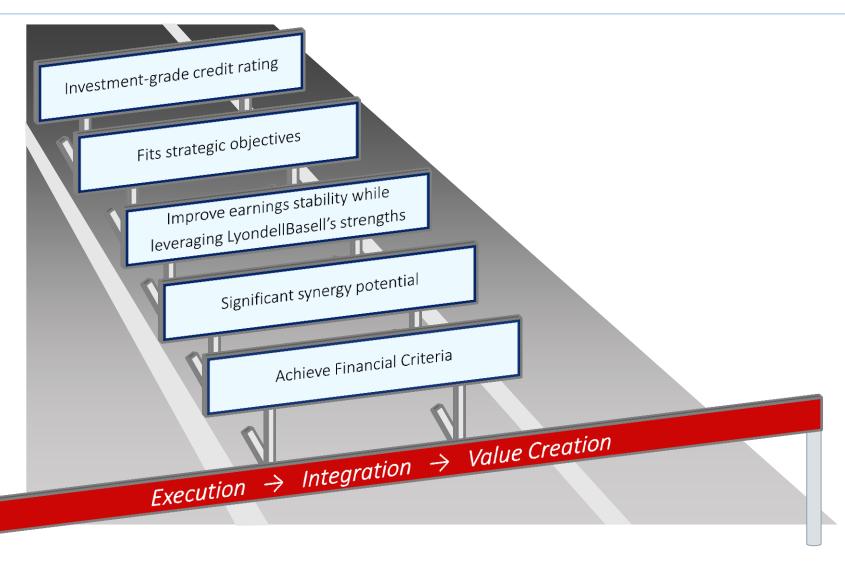
Thomas Aebischer
Chief Financial Officer

New York Stock Exchange April 5, 2017



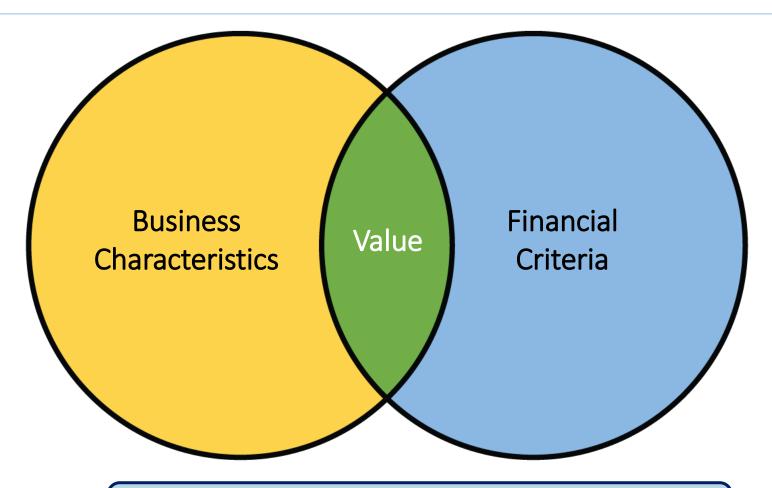
Rigorous Strategic and Financial Criteria





Driven by Value Generation





- Our business and financial structures are built to support inorganic growth
- Prepared to act on opportunity that meets our criteria
- Remain disciplined

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Global O&P

Bob Patel

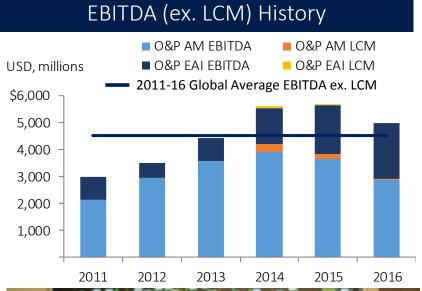
Chief Executive Officer

New York Stock Exchange April 5, 2017



Global O&P Overview







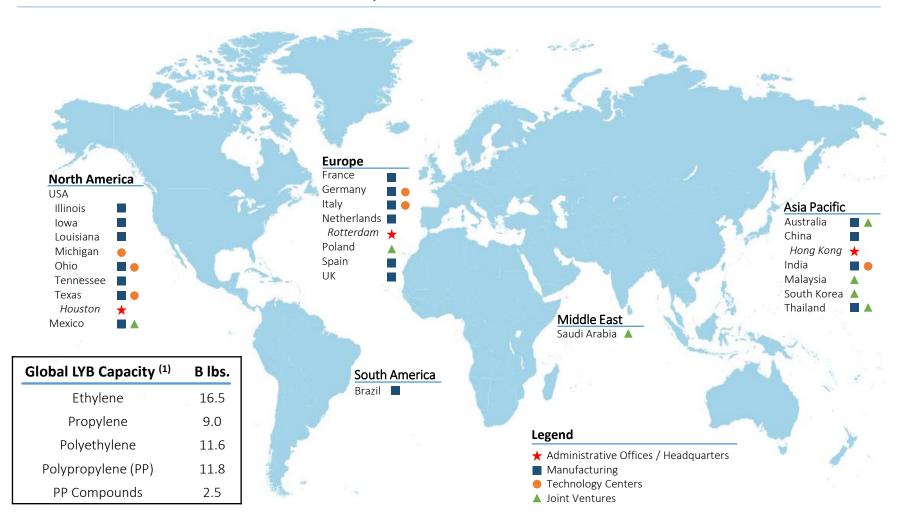
Key Messages

- LYB O&P is a strong earnings and cash generator
- Strong global presence
- Global trends favor continued demand growth
- Favorable global operating rates
- U.S. remains feedstock advantaged



We Have a Substantial Global Footprint . . .



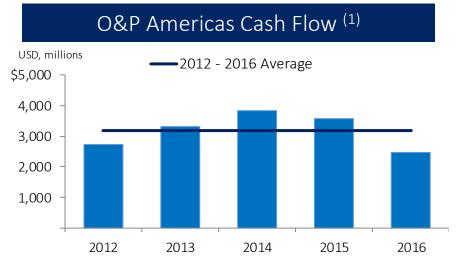


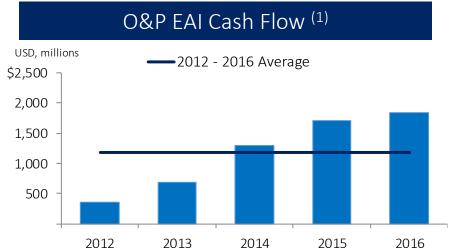
⁽¹⁾ LYB wholly-owned capacity and proportional share of JV capacity as of December 31, 2016.

... Which Generates Strong EBITDA and Cash Flow

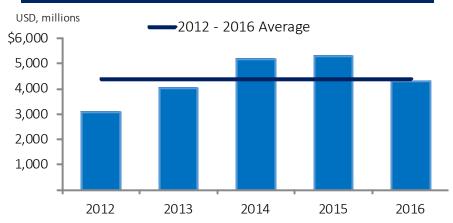
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Global O&P Cash Flow (1)



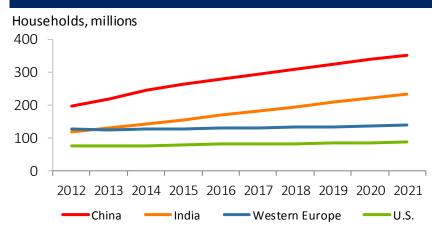
(1) Cash Flow is defined here as EBITDA ex. LCM less base capital expenditures.

- Excellent cash flow under a broad range of market conditions
- Operating focus and steady investment drive high asset reliability and cash flow

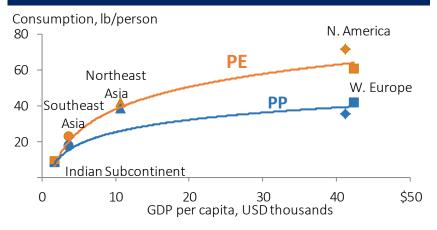
Global Macro Trends Demographics Driving Demand



Upper/Middle Class Households

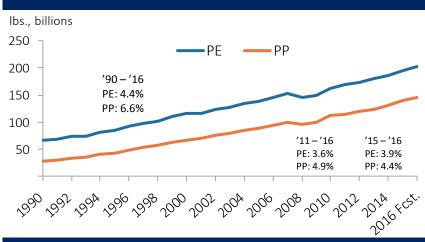


2016 Polyolefins Consumption

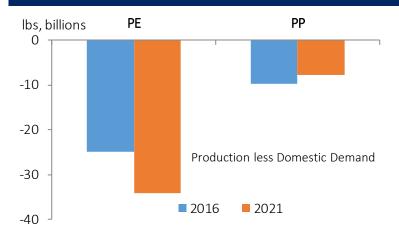


Source: IHS.

World PE and PP Demand

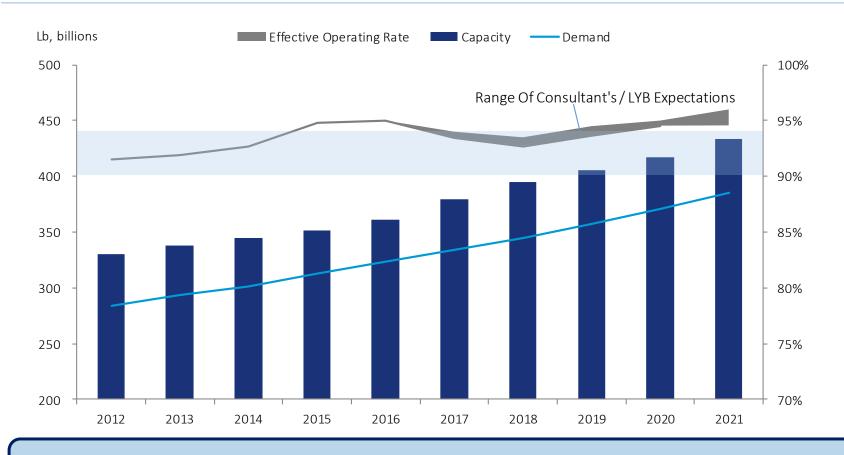


China Polyolefin Trade Deficit



Global Ethylene Operating Rates Remain Strong Despite New Capacity





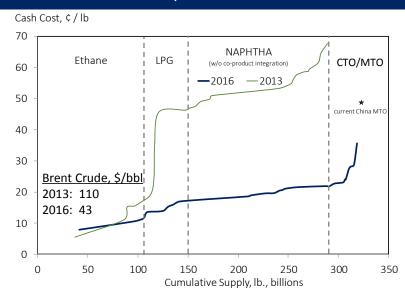
2017 – 2021 global ethylene operating rates average above 2010-2016 rates

Source: IHS, LYB estimates, effective operating rate assuming 6% industry downtime. Based on 2017 updated balances.

Ethylene Cost Curve Favors U.S. Ethane in Both High and Low Oil Scenarios



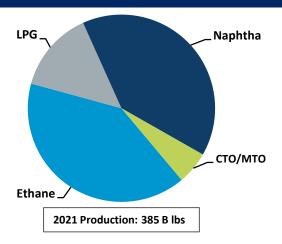
Global Ethylene Cost Curve



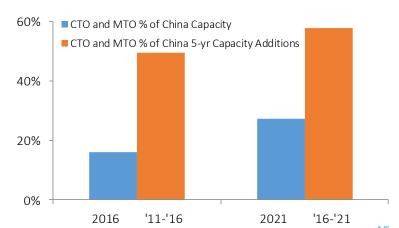
- High cost MTO has become a significant source of supply in China
- At low crude oil prices and high operating rates, we believe MTO is a baseline supporting global PE prices

Source: IHS, LYB estimates..

2021 Ethylene Supply by Feedstock

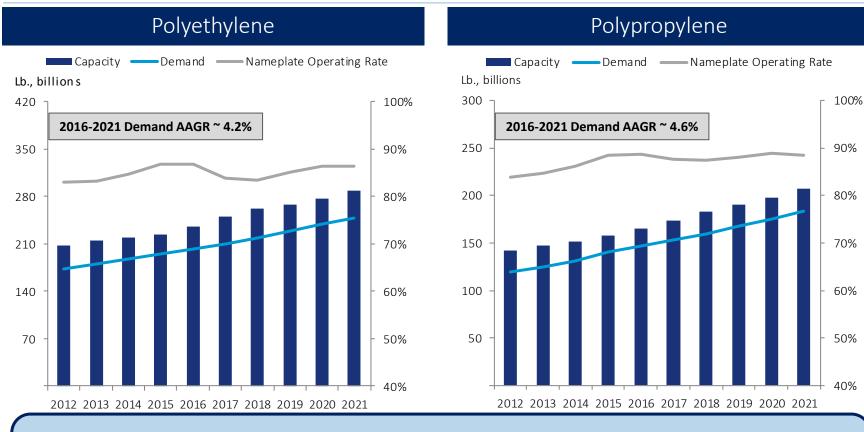


CTO and MTO Ethylene Capacity in China



Global Polyolefins Supply and Demand Forecasts Remain Favorable





- Rates in the upper 80 90% range reflect a tight market
- Polyethylene tracking ethylene operating rates
- Polypropylene continues to be balanced to tight

Source: IHS, LYB estimates.

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O&P-Americas

Paul Augustowski Senior Vice President

New York Stock Exchange April 5, 2017



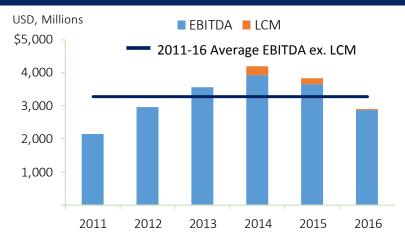




O&P-Americas Segment Overview







Product Capacities and Positions (1)

Product	Capacity (B lbs)	NA ranking
Ethylene	11.7	2
Polyethylene	6.4	3
Polyproylene	3.9	1

Key Messages

- LYB capacity expansions complete
- Proven operational reliability and feedstock flexibility
- Major turnarounds complete in past two years; significant volume expansion in 2017



Source: LYB and IHS

⁽¹⁾ LYB wholly-owned capacity and proportional share of JV capacity as of December 31, 2016.

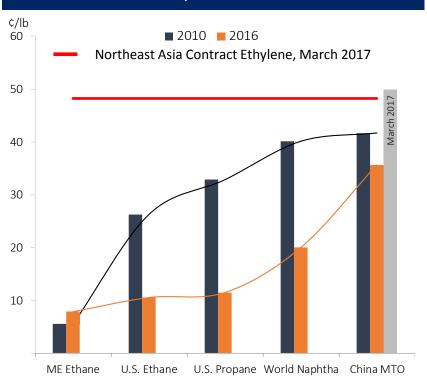
North America Continues to Benefit from Shale Gas Advantage





35 ■ Crude Oil / Gas Price Ratio ■ Crude Oil / Ethane Price Ratio 30 25 20 15 10 5 0 2000 - 2006 2010-2011 2012 - 2014 2015 - 2016

Global Ethylene Cost Curve



- Current crude oil to gas ratio remains significantly advantaged
- North America ethylene remains advantaged vs. 60% of the world crackers

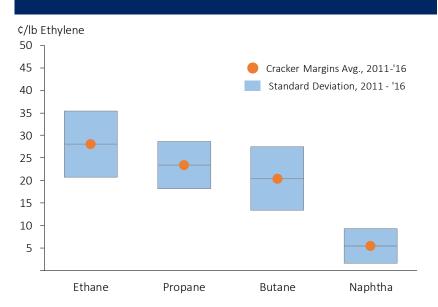
Source: IHS

⁽¹⁾ Oil to Gas ratio is Brent crude oil price (USD/bbl) divided by the Henry Hub natural gas price (USD/MMBTU). Ethane price ratio is Brent crude oil price divided by the Mont Belvieu price of ethane expressed as fuel value (USD/MMBTU).

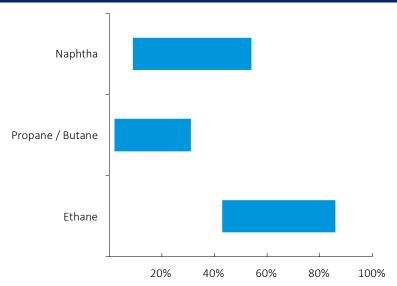
LYB Well-Positioned to Leverage Feedstock Flexibility



Industry Feedstock Cracker Margins



2016 LYB U.S. Cracker Feedstock Flexibility as Percent of Ethylene Production



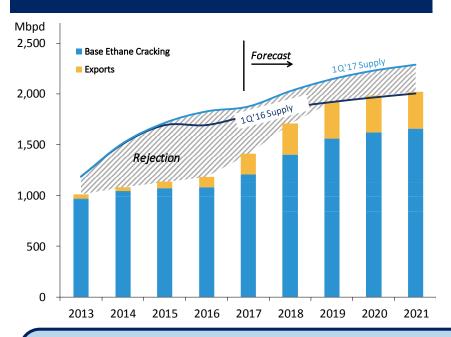
- Recently completed LYB expansions designed to maximize ethane
- Sophisticated optimization tools and assets drive feed flexibility for maximum margins
- Advancing a host of small low capital projects to further expand our feedstock optionality

Source: IHS and LYB.

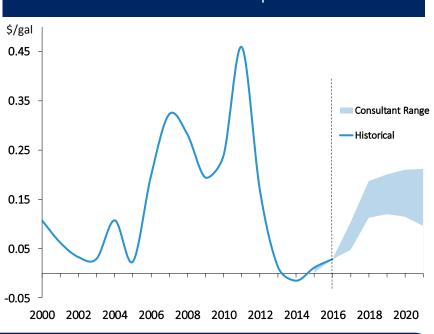
U.S. Ethane Supply Continues to Exceed Demand







U.S. Ethane Frac Spread (1)



- To mitigate supply risk, LYB has secured long term supply & pipeline contracts
- To mitigate price risk, LYB has alternative feedstock capability & has hedged a small portion of the ethane portfolio

Source: S&P Global Platts, PIRA, Bentek, and LYB as of February 2017.

(1) U.S. Ethane Frac Spread = Mont Belvieu ethane price less ethane value using Henry Hub natural gas price.

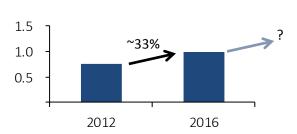
Trends Support Further Increases in USGC Ethane Supply



Natural Gas Demand

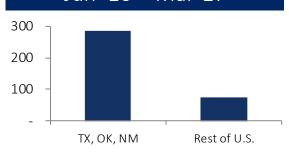
 Growing demand focused on U.S. Gulf Coast markets

Ethane gal/Mscf Gas Increasing



- Ethane content in natural gas steadily increasing
- Drilling concentrated in oil fields with rich associated gas

Rig Count Additions Jun '16 – Mar'17



- Increased drilling concentrated in Texas, Oklahoma, and New Mexico
- ~60% in Permian and Eagle Ford

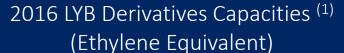
These trends could lead to an upside of several hundred thousand barrels per day of ethane

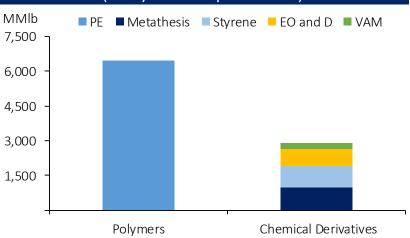
Source: Tudor Pickering Holt, Baker Hughes, Enterprise, Bentek, EIA, and LYB.

LYB Has Flexibility Within a Broad Ethylene Derivative Portfolio

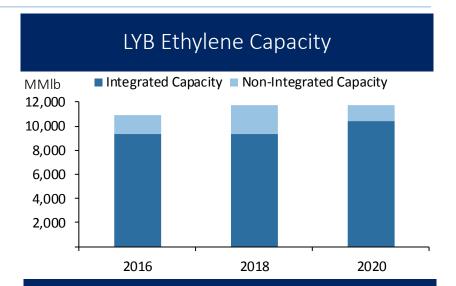


53

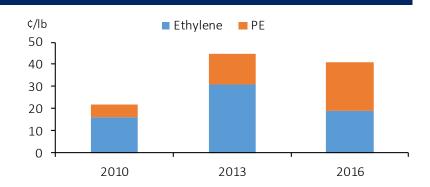




- LYB derivatives represent ~ 15% of 2016
 U.S. ethylene consumption
- LYB ethylene integration is ~ 85%
- Merchant position provides access to PVC and non-integrated acetyls and glycols producers



Ethylene and PE Cash Margin⁽²⁾ History



Source: IHS.

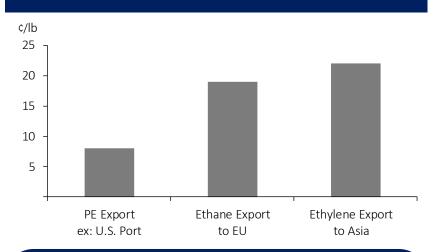
⁽¹⁾ LYB capacities as of December 31, 2016.

⁽²⁾ Ethylene cash margin is IHS Ethylene NT price minus IHS ethylene weighted average feedstock cost; PE cash margin is IHS NT estimate blow molding price minus IHS ethylene contract NT minus polyethylene production cost estimate.

Polyethylene Export is Economically Favored Versus Ethane/Ethylene

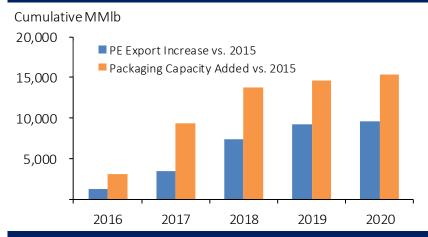




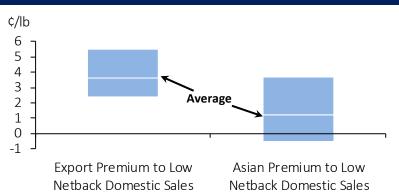


- LYB established global sales and marketing channels
- Export infrastructure under construction
- Export netbacks are similar to large domestic buyers

Packaging Supply Demand Additions Since 2015



LYB 2014-2016 Export vs. Domestic Netback (1)



Source: IHS, Townsend Solutions.

1) Netback is the product revenue after deducting costs of transportation and packaging.

Significant Value Generated by Differentiated Polyolefins Portfolio



2016 Polyolefin Volumes & End Uses

Differentiated Grades Commodity Grades Packaging Building & construction Transportation Textiles & Furnishings Flectronics

LYB Value of Differentiated Grades



- Top quartile Polyethylene business performance vs. industry
- Improved Polypropylene operations and business performance versus historical trends
- Higher market growth of differential products in automotive, packaging and consumer products

Source: LYB. Based on ACC Polyolefins data.

Hyperzone PE Technology Extends Our Differentiation

lyondellbasell

New *Hyperzone* HDPE investment will offer resins with:

- Combination of LYB PE and PP technical expertise
- Excellent balance of processing capability and higher stiffness
- Targeting high-growth applications
- 60% of volume representing differential value
- New foundation for global LYB technology licensing





Developing Additional Growth Projects



Potential EBITDA ⁽¹⁾ (\$MM / year)

COMPLETED

PROGRESSING

UNDER STUDY

Project	Scope	Capex (\$MM)	2016 Margins
Several Expansions and Debottlenecks	2 Blb Ethylene 0.24 Blb PE	~ \$1,900	\$370 – 550
Hyperzone HDPE Plant	1.1 Blb PE	~ \$700 – 750	\$150 - 200
Expansions	0.55 Blb Ethylene 0.3 Blb PE 0.35 Blb PP	~ \$405 - 440	\$200 - 290
New Plants	1.1 Blb Propylene 1.1 Blb PP Plant 1.1 Blb PE Plant		

Source: LYB, Chemical Data and IHS.

⁽¹⁾ Potential EBITDA assumes 100% utilization and is based on third party consultant industry margins for 2016 as of February 6, 2017.

O&P-Americas Summary



- North American production continues to be globally favored
- Expect ethane to remain favored into the future
- LYB assets provide excellent flexibility
- Polyolefins differentiation provides incremental value
- Additional expansion options under study

Iyondellbasell Investor Day

O&P – Europe, Asia, International

Richard Roudeix

Senior Vice President

New York Stock Exchange April 5, 2017

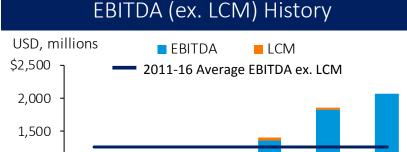


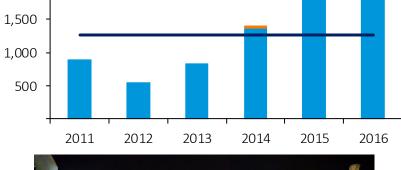




O&P-Europe, Asia, International Segment Overview









Key Messages

- Record EBITDA in 2015 and 2016
- Leveraging O&P Europe restructuring in a positive market environment
- Delivering differential performance to peers
- Joint Ventures & PP Compounds provide stability
- Growing our leading PP Compounds position

Product Capacities and Positions (1)

Product	Capacity (B lbs)	Sites	EU ranking
Ethylene	4.8	4	5
Propylene	3.5	7	5
PE	5.2	6	1
PP	7.9	13	1
PP Compounds	2.5	17	1 (Global)

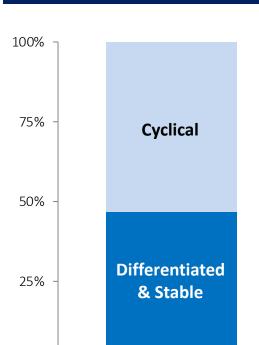
Sources: IHS, AMI, LYB.

⁽¹⁾ LYB wholly-owned capacity and proportional share of JV capacity as of December 31, 2016.

Drivers of Profitability: Portfolio is Well-Balanced



2011-2016 EBITDA(1)



Drivers for Profitability

- Increased feedstock flexibility
- High operating rates
- Restructuring and cost reduction to offset inflation
- Systematic emphasis on high value end-use and selective innovation for high-value markets

Near-Term Actions

- Sustained focus on operational excellence, cost and capital discipline
- Optimization of feedstock logistics and energy efficiency

61

Leverage global scale

Capturing value across the O&P EAI business portfolio

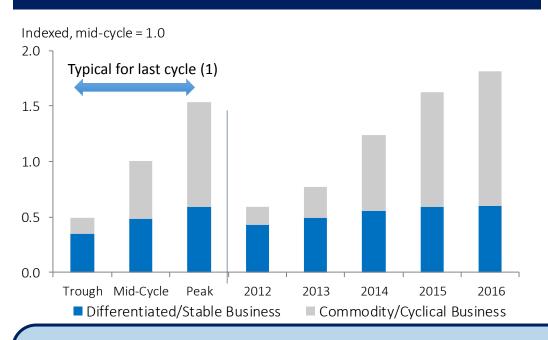
(1) EBITDA excludes amounts allocated to Other.

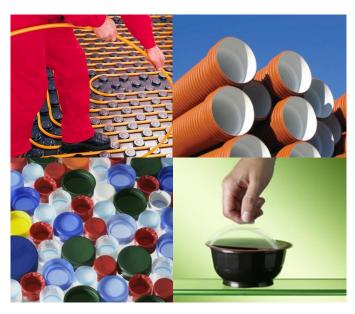
0%

Structural Improvements and Strong Markets Ivondellbasell **Drive Sustained Profit Improvements**



Indexed O&P EAI EBITDA





- 2011-2013 restructuring a source of sustainable improvement
- Commodity businesses leveraging high global/European operating rates and foreign exchange rates
- Targeted innovation pipeline building resilience for the future

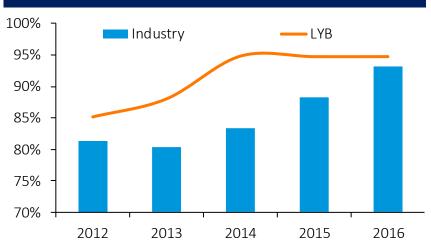
Source: LYB.

(1) O&P EAI trough, mid-cycle and peak EBITDA values are based on LYB estimates.

Sustainable Differential Performance





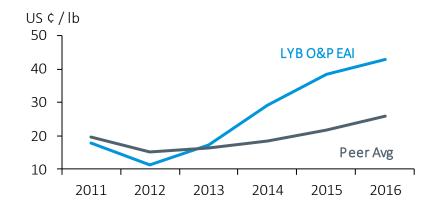


European HDPE Operating Rate



EBITDA per pound of Ethylene (1)

LYB continues to outperform peers



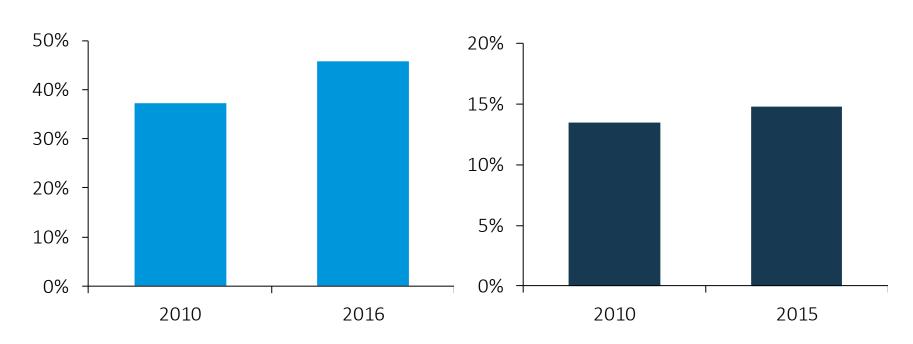
Source: LYB, Cefic, Fides. Industry and LYB Operating Rates are excluding turnarounds. (1) LYB EBITDA excludes LCM; O&P EAI peers are Borealis and INEOS.

Improved European Cost Position





LYB O&P EAI Polyolefins Total Cost Advantage vs. Industry



Optimize profitability with feedstock agility and continuous cost management

Source: 2015 PTAI PCMP.

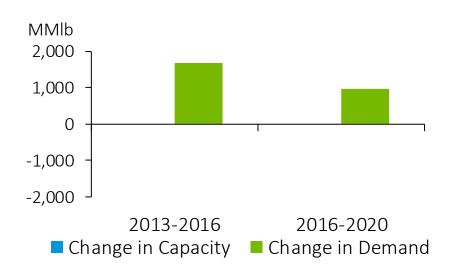
Lack of New Capacity and Moderate Growth Should Maintain High Operating Rates



European HDPE Supply-Demand Change

MMIb 2,000 1,000 -1,000 -2,000 Change in Capacity Change in Demand

European PP Supply-Demand Change



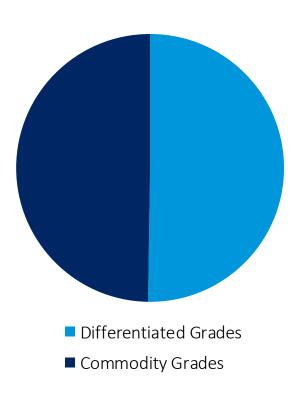
- No net capacity growth: 2013 2020
- Demand growth forecasted for PE and PP in Europe

Source: 2017 IHS.

Polyolefins Differentiation Provides Earnings Stability Through the Cycle



2016 LYB EAI Polyolefins Product Volumes

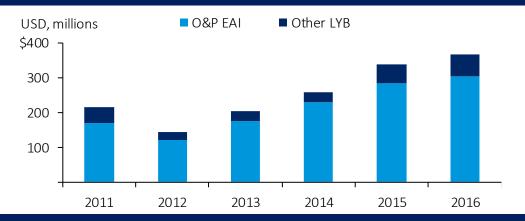


- Differentiated grades provide volume stability
- Differentiated grades provide premium margin over commodity
- Premium margin more significant at the bottom of the cycle

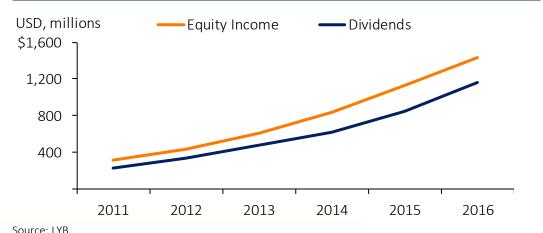
Joint Ventures and International Marketing

lyondellbasell





Cumulative O&P EAI JV Equity Income and Dividends



(1) Represents total joint venture annual nameplate capacity.

- Feedstock advantaged production in Middle East
- Local participation in Asia/ME markets
- Significant JV capacities⁽¹⁾
 - 5.5 B lbs. olefins
 - 9.7 B lbs. PE & PP
 - 0.3 B lbs. compounding
- Significant source of after-tax earnings and free cash flow
- Scalable, global network

Well-positioned for Global Marketing of U.S. Exports

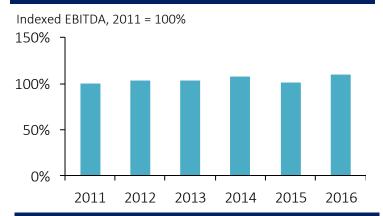




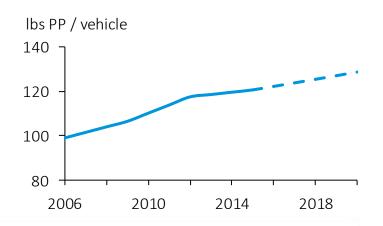
Global PP Compounds Generate Stable Returns



EBITDA Trend



PP: 120lbs/ vehicle



Source: AMI PP Compounds, August 2016.

PP Compounds

- Leading market position of up to 50% regionally
- 2.4B pounds sold in 2016 or 25 lbs for every light vehicle produced in our markets
- Organic growth with market and strengthening position through acquisitions

Next Application Opportunities



Metallic Pigmented Hifax (Range Rover)

Soft Touch Softell (Audi)

O&P EAI Strong Portfolio of Businesses and Assets



- Structurally improved cost basis and flexibility, leveraging 2010-2011 restructuring
- 50% of 2016 EBITDA generated from areas of differentiation with potential for further growth
 - Premium polyolefin mix
 - PP compounds, Catalloy and Polybutene
 - Cost-advantaged Joint Ventures asset base
 - Strong Joint Ventures dividends flow
- Scalable Global Marketing Network, in particular in Asia
 - Decades of direct polyolefin marketing experience in Asia
 - ~ 4.5 B lbs of annual sales from wholly-owned and JV assets

Investor Day

Intermediates & Derivatives

Jim Guilfoyle

Senior Vice President

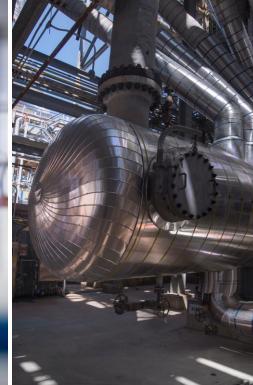
Global Intermediates & Derivatives

Global Supply Chain

New York Stock Exchange April 5, 2017



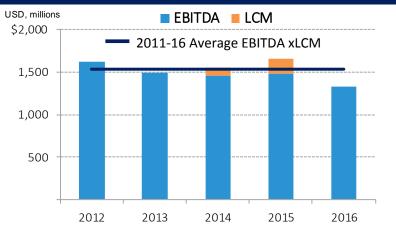




Intermediates and Derivatives: A Platform for Earnings Stability & Growth







Key Messages

- Stable earnings and consistent cash generation
- Broad product portfolio with feedstock integration
- Leading market positions and differential technologies
- Strong market outlook and platform for growth

Product Capacities and Positions⁽¹⁾

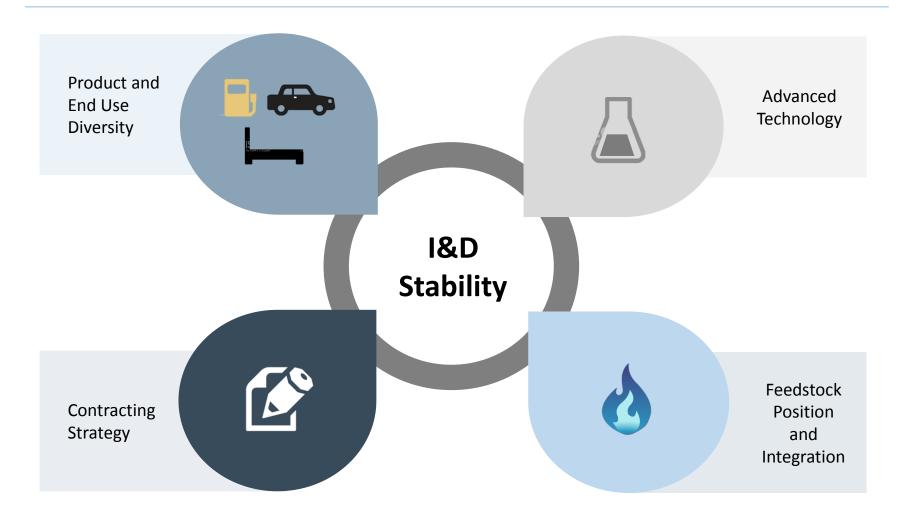
Product	Capacity	Global Position
Propylene Oxide	5.1 Blbs.	#2
Oxyfuels	75 MBPD	#1
Styrene	5.9 B Lbs.	#1



⁽¹⁾ Capacity data represents 100% capacity share.

Fundamental Drivers for Stable Earnings





Broad Product Portfolio Provides Resilient Demand

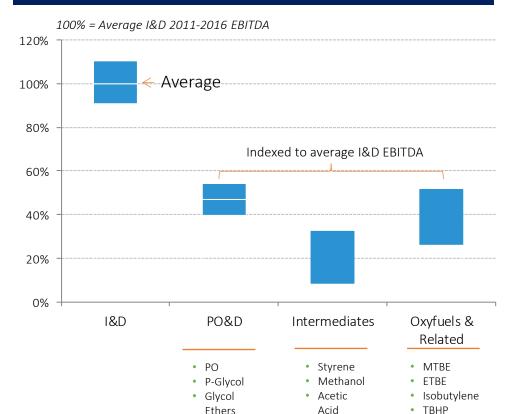


	Propylene Oxide & Derivatives	Oxyfuels and Related Products	Intermediate Chemicals
Core Products	Propylene Oxide (PO)Propylene Glycol (PG)Butanediol (BDO)	 High Purity Isobutylene (HPIB) Methyl Tertiary Butyl Ether (MTBE) Ethyl Tertiary Butyl Ether (ETBE) 	 Styrene Monomer (SM) Methanol (MeOH) Glacial Acetic Acid (GAA) Vinyl Acetate Monomer (VAM) Ethylene Oxide (EO)
Key Raw Materials	- Propylene	- Butane, Bio-ethanol, Methanol	- Ethylene, Benzene, Natural Gas
Key Applications	 Home and auto cushioning Insulation foams Polyester composites Coatings Automotive parts Spandex 	 Inside liner tires Lubricant additives Fuel blending components 	 Food packaging Textiles Coatings Safety glass Polyester

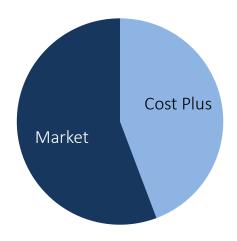
Breadth of Product Portfolio and Contracting Strategy Dampens Volatility



EBITDA (ex. LCM) Variability Over Time: 2011 – 2016



Contracting Strategy (1)





Source: LYB.

(1) Internal LYB estimates derived from third party sales, 2016.

Butanediol

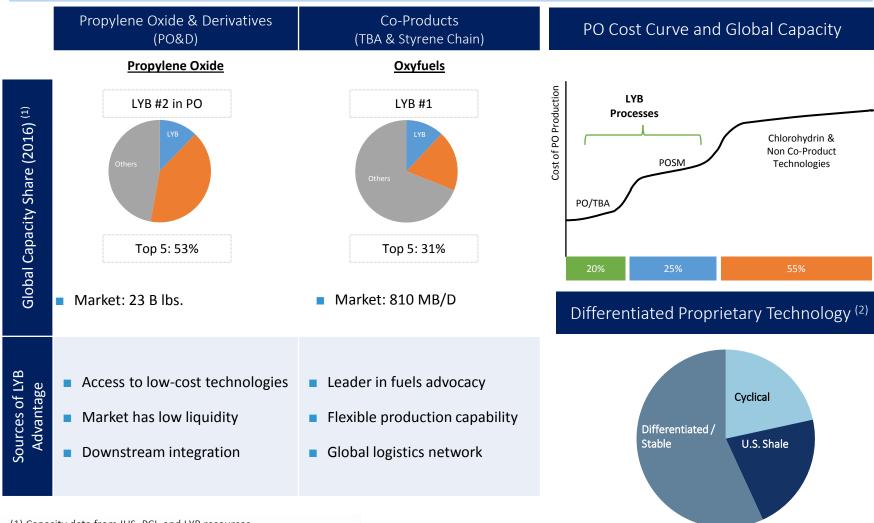
VAM

EO/EG

TBA

Technology Advantage Has Provided Stability and a Platform for Growth





⁽¹⁾ Capacity data from IHS, PCI, and LYB resources.

Building for the Future

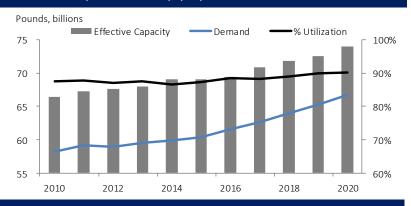
76

⁽²⁾ Proportion of 2016 EBITDA, excluding the impact of the LCM adjustment.

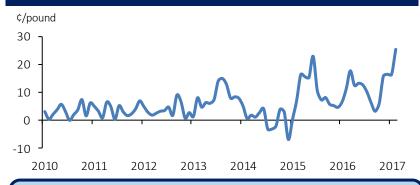
Styrene and Methanol Scale is Significant and Leveraging



Styrene Supply and Demand



U.S. Styrene Industry Margin (1)



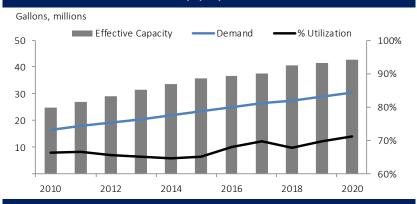
3.4 billion pounds

LYB's wholly-owned Styrene capacity

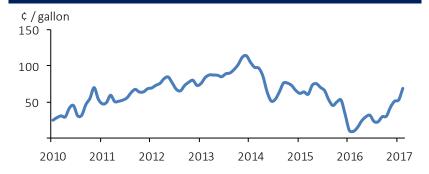
Source: IHS and LYB.

1) 3-month moving average.

Methanol Supply and Demand



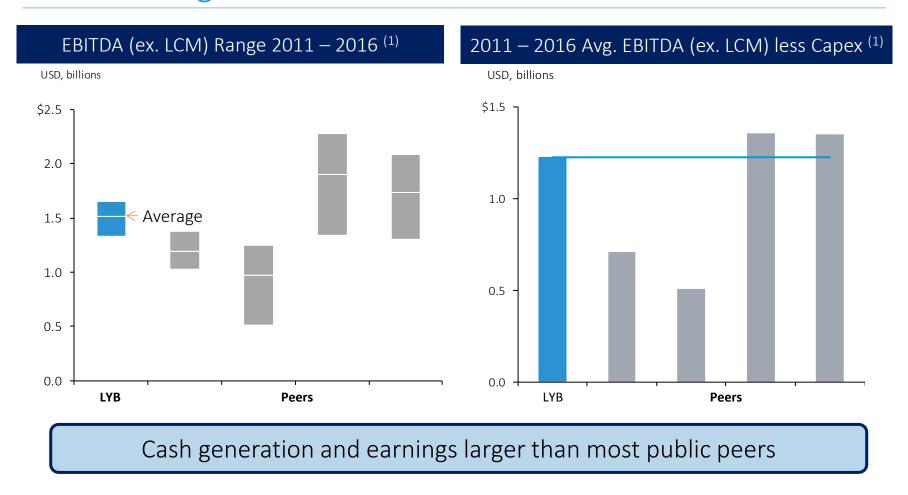
U.S. Methanol Industry Margin (1)



440 million gallons
LYB's wholly-owned Methanol capacity

The Result is Consistent EBITDA and Outstanding Cash Generation





Source: LYB, Capital IQ.

⁽¹⁾ EBITDA is as reported by Capital IQ and could include adjustments and therefore not be on the same basis. One peer did not restate financial information back to 2011 following a reorg and therefore the average for this peer was based on the average of 2012 – 2016.

Notes: Peers include Huntsman. Celanese. Eastman. and Dow Performance Materials and Chemicals.

Market Conditions are Favorable for a PO/TBA Project



Aligns with our strategy

- Invest where we have leading technology positions
- Leverage leading market position
- Stable business with strong cash flow

U.S. Shale Advantage

- Abundant butane
- Favorable oil / NGL pricing

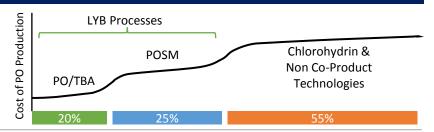
Construction schedule aligned

 Industry resource availability on tail of major USGC build⁽²⁾

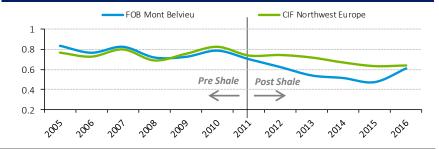
(1) Source: IHS.

(2) Source: Industrial Information Resources and LYB.

LYB Practices the Leading PO Technologies



Butane as a Percentage of Brent (1)



Gulf Coast Labor Availability (2)



Propylene Oxide: Favorable Growth Environment





Operating rate stability



PO demand growth equivalent to one new world scale plant per year

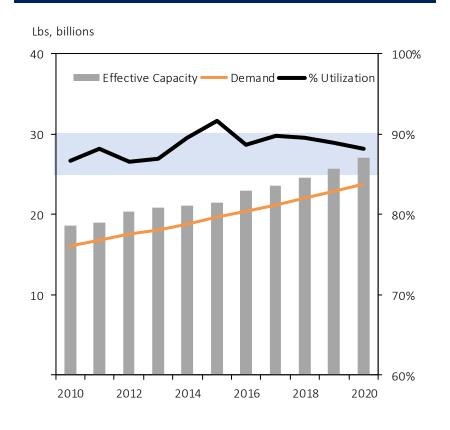


Growth underpinned by macro trends of population growth, urbanization, and wealth expansion



Environmental pressure on competing technologies

Global Propylene Oxide (PO) Supply/Demand



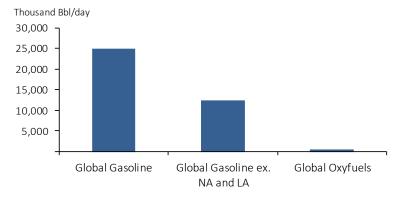
Source: LYB.

Oxyfuels: Butane Upgraded to High Octane Gasoline



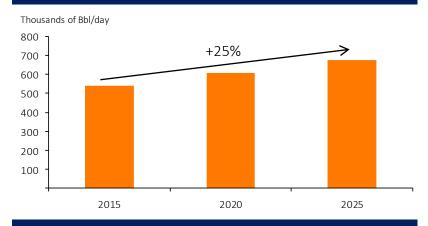
- U.S. will continue shale gas production and associated NGLs will be abundantly available
- Meets the needs of improving gasoline quality
- Environmental benefit of oxygenates blended to fuel
- Increased demand in developing countries

Global Gasoline and Oxyfuel Demand (3)

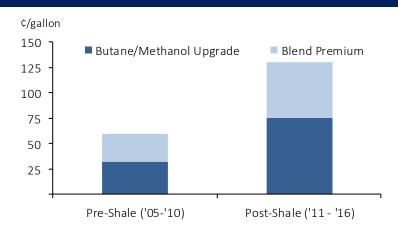


- (1) Source: IHS.
- (2) Source: LYB, Platts, and IHS.
- (3) Source IHS. Global Gasoline ex. NA and LA is excluding North America and Latin America.

Demand for Oxyfuels is Growing (1)



U.S. MTBE Upgrade Value (2)



I&D: Strong Foundation In Markets and Technology Enable Growth



- Maintain focus on strong operations generating steady cash flow
- Increase investment in core chemical technologies
- Grow organically through advantaged technologies and feedstocks
- Expand platform for value-driven growth

Investor Day

Refining, Manufacturing and Projects

Dan Coombs

Executive Vice President

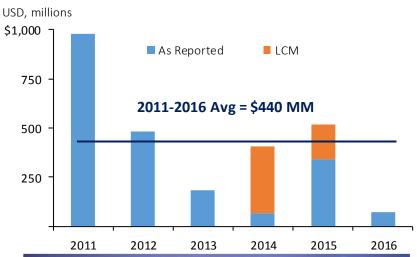
New York Stock Exchange April 5, 2017



Refining



EBITDA (ex. LCM) History





Key Messages

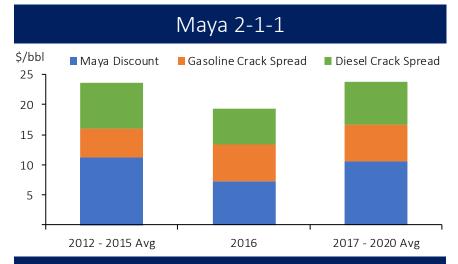
- Margins supported by growing demand for cleaner fuels and greater heavy crude discounts
- Good access to advantaged feedstocks and domestic and export markets
- Recent performance impacted by reliability and turnarounds. Positive outlook post 1Q 2017.
- 2011 2016 refining EBITDA (ex. LCM) less capital expenditures > \$1.6 billion

Characteristics

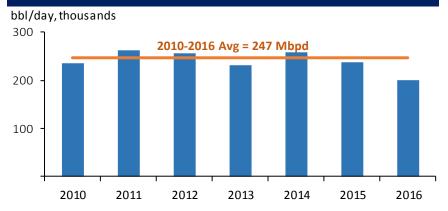
- 268,000 barrels per day capacity
- Designed for heavy, sour crude oils (Nelson Complexity = 12.5)
- Upgrading investments completed for new, stringent gasoline and diesel fuel specifications
- Houston Ship Channel location has excellent access to global heavy crude supplies and markets for products

Heavy Refining Spreads Forecast to Increase





Houston Refinery Throughput



- Diesel fuel demand supported by maritime fuel requirement
- 10 ppm sulfur gasoline spec increases octane demand
- Discount for heavy crudes increases at higher crude price
- Identified and correcting 2016 issues to improve reliability

Source: LYB, Platts.

Robust Global Manufacturing Footprint



Spanning the Globe

Our Focus

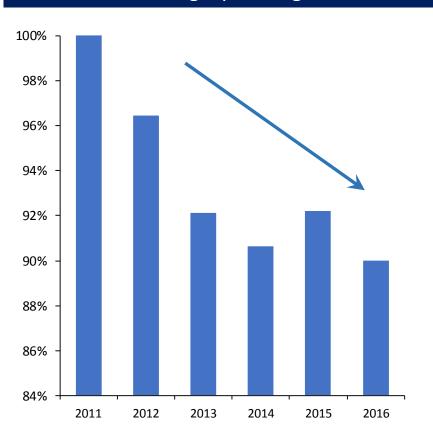


- GoalZero operations
- Comprehensive benchmarking
- Cost and capital discipline
- Leveraging global footprint

Focus on Manufacturing Cost Discipline



Manufacturing Operating Costs (1)



Benchmarking (2)

Internal and external benchmarking drives focused, continual actions and improvements

- Olefins: ~ 80% of production in top half operating cost performance
- Polyolefins: > 50% of production in top half operating cost performance
- PO/SM, PO/TBA and Methanol all in top half of industry cost of production performance

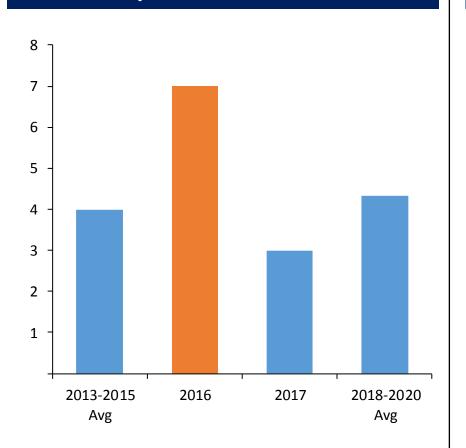
⁽¹⁾ Adjusted for wage inflation.

⁽²⁾ External benchmarking vs. North American and European industry competitors. Based on 2015 data.

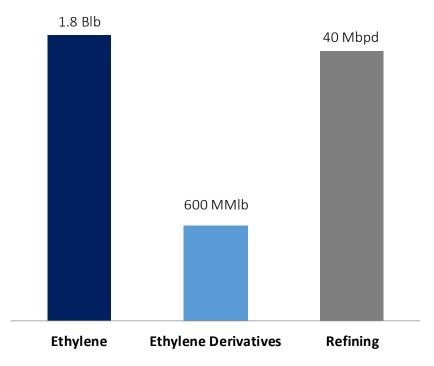
2017 Potential Benefits from LYB Maintenance Investments During 2016



LYB Major Turnarounds Per Year



2017 vs. 2016 Available Capacity

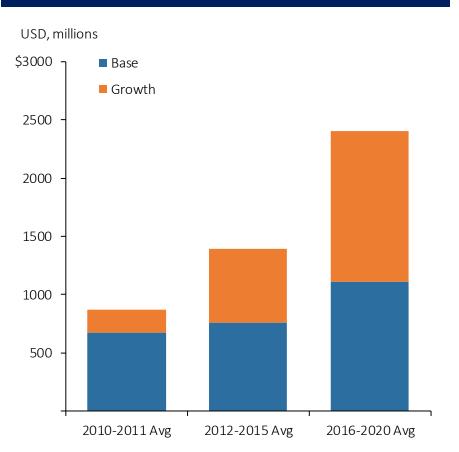


~\$600 million EBITDA at 2016 industry benchmark margins

Increasing Investment in LYB Growth



Capital Investment



 Capital programs moving toward profit-generating growth

- Base investment increases with
 - Larger asset base due to growth program
 - Inflation
 - Near-term HSE program spending

LYB Projects Have Added Value



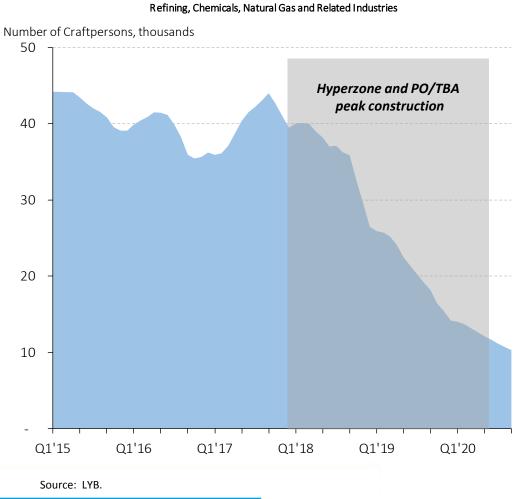
Project	Schedule ⁽¹⁾	Cost ⁽¹⁾	Benefit / Comment
European Butadiene Expansion	\checkmark	\checkmark	Paid for itself in ~3 years
Channelview Methanol Restart	\checkmark	\checkmark	Paid for itself in ~2 years
Matagorda Polyethylene Expansion	\checkmark	\checkmark	Paid for itself in ~1 year
La Porte Ethylene Expansion	\checkmark	\checkmark	Running above design output
Channelview Ethylene Expansion	\checkmark	\checkmark	Matching design output
Corpus Christi Ethylene Expansion	√	√	Full capacity available mid-2017
Tier III Gasoline	\checkmark	\checkmark	On schedule, on budget

⁽¹⁾ Schedule target is +/- 3 months and cost target is +/- 20%.

Gulf Coast Project Pressures Continue but Easing with Time



USGC Estimated Labor Demand - 3 month rolling avg.



- Initial wave of industry projects suffered from higher cost and lower productivity due to lack of skilled workers and engineers – impact expected to decrease over time
- Majority of LYB PO/TBA and Hyperzone construction windows occur outside of peak USGC labor demand period

Update on Major Projects



La Porte *Hyperzone* Polyethylene

- 1.1 billion pounds per year
- Groundbreaking May 2017
- Startup 2019
- Est. cost: ~\$700 750 million



PO/TBA

- 1 billion pounds Propylene Oxide,29 MBPD Oxyfuels
- Final Investment Decision 3Q 2017
- Est. cost: ~\$2.0 \$2.5 billion



Summary



- Refinery positioned to return to strong cash generation
- Global manufacturing focus
 - Health, Safety and Environmental excellence
 - Reliability
 - Feedstock efficiency
 - Cost discipline
- Investment in assets maintains industry-leading reliability
- Investment in profit-generating growth projects increasing from ~25% in 2011 to ~50% of all CAPEX through 2020

Investor Day

Concluding Remarks

Bob Patel

Chief Executive Officer

New York Stock Exchange April 5, 2017



Guided by a Clear and Value-Oriented Strategy





Achieve Top Quartile
Operations



| Practice Relentless | Cost Discipline



| Prudent | Financial Stewardship



Pursue Profitable
Organic Growth

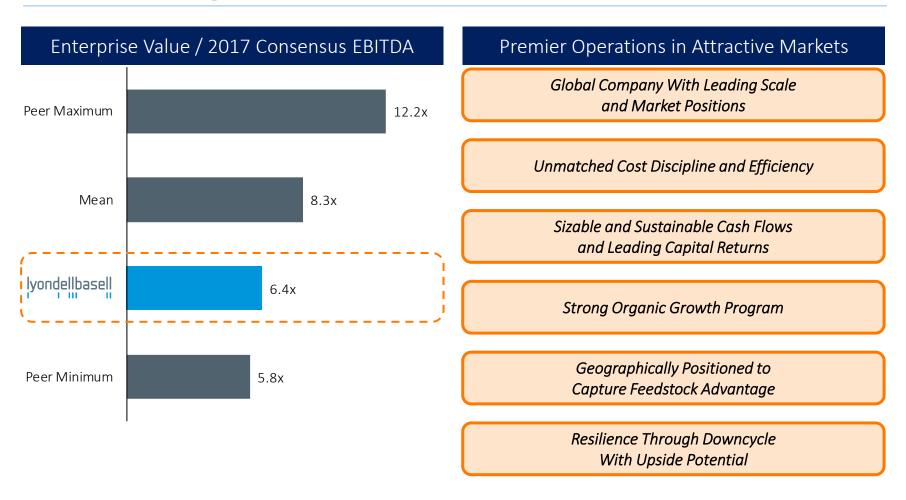


Capture Opportunities
In Cycles



Market Significantly Undervalues LYB's Earnings and Cash Flow





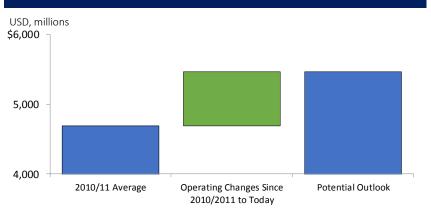
⁽¹⁾ Source: Factset EV and Consensus as of Dec. 31, 2016. Peers are BASF, Celanese, CF Industries, Covestro, Dow, DuPont, Eastman, Evonik, Huntsman, Methanex, Olin, SABIC, Trinseo, Westlake.

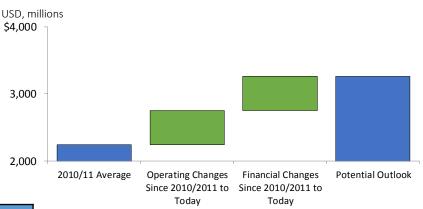
Actions Taken Elevate Earnings Even at 2010/2011 Industry Conditions



LYB Potential EBITDA (ex. LCM)

LYB Potential Net Income (ex. LCM)





2010/2011 Industry Conditions and Metrics										
Brent Crude	\$96/bbl		Global Ethylene Operating Rate	91%						
Natural Gas	\$4.32/MMBTU		NWE MTBE Raw Material Margin	62 ¢/gallon						
Ethane	68 ¢/gallon (\$10/MMBTU)		Maya 2-1-1	\$20/bbl						
Oil / Gas ratio	22		2010/2011 Average LYB Share Count	570 MM						
Oil / Ethane ratio	9		2016 Year-end Average LYB Share Count	404 MM						

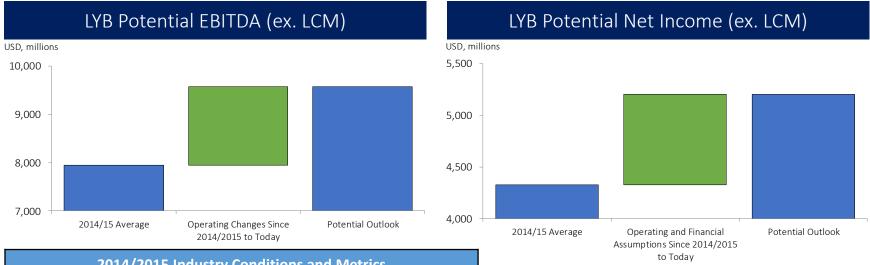
(1) LYB Estimates. Operating and financial changes tax affected using the U.S. statutory rate.

Key LYB Changes Since 2010/11

- Operating Assumptions
 - Additional ethylene capacity
 - Additional methanol capacity
 - Additional BD capacity
 - O&P EAI restructuring / optimization
- Financial Changes
 - Lower interest expense
 - Higher depreciation expense
 - Lower share count

Our Strategy Increases the Upside Potential





2014/2015 Industry Conditions and Metrics											
Brent Crude	\$76/bbl	Global Ethylene Operating Rate 94%									
Natural Gas	\$3.63/MMBTU	NWE MTBE Raw Material Margin 90 ¢/gallon									
Ethane	23 ¢/gallon (\$3/MMBTU)	Maya 2-1-1 \$23/bbl									
Oil / Gas ratio	21	2014/2015 Average LYB 494 MM Share Count									
Oil / Ethane ratio	22	2016 Year-end Average LYB 404 MM Share Count									

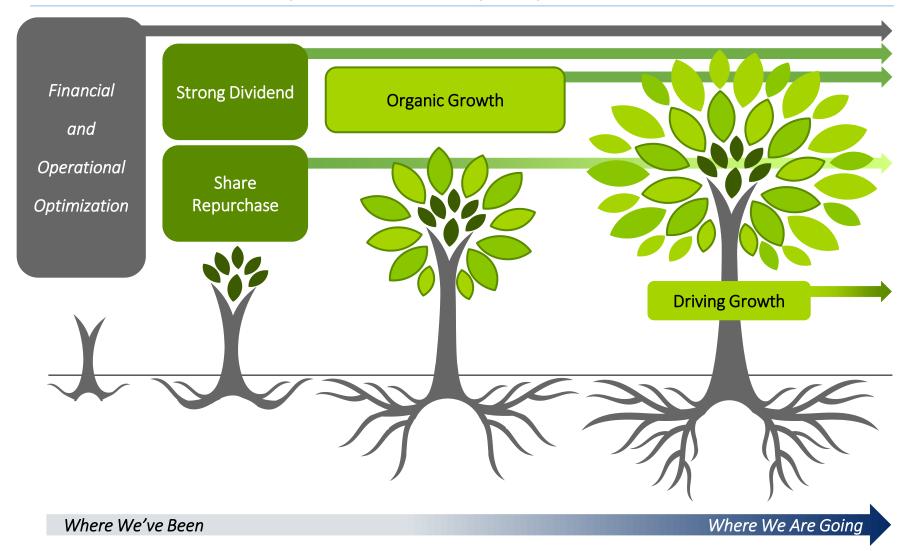
(1) LYB Estimates. Operating and financial changes tax affected using the U.S. statutory rate.

Key LYB Assumptions Since 2014/15

- Operating Assumptions
 - Corpus ethylene expansion
 - Hyperzone polyethylene plant
 - PO/TBA plant
 - PP at 2016 Performance
- Financial Changes
 - Lower share count
 - Higher depreciation expense

Matching Capital Allocation with the Maturity of the Company





We Are Well-Positioned for Value-Driven Growth



Strong Foundation

- Global reach
- Leading technology
- World-class operator
- Balance sheet capacity

Strong Earnings Upside at a Low Valuation

- Portfolio breadth with differentiated products
- Feedstock advantage and flexibility
- Strong and secure dividend

Talented People and Robust Processes

- Ownership culture
- Incentives aligned with shareholders
- Disciplined capital deployment processes

Investor Day

Appendix

New York Stock Exchange April 5, 2017



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 diluted earnings per share from continuing operations excluding LCM, EBITDA and EBITDA excluding LCM, EBITDA excluding LCM less capital expenditures and EBITDA excluding LCM less base capital expenditures which we also refer to as cash flows, and EBITDA excluding LCM per pound of ethylene capacity. LCM stands for "lower of cost or market," which is an accounting rule consistent with GAAP related to the valuation of inventory. Our inventories are stated at the lower of cost or market. Cost is determined using the last-in, first-out ("LIFO") inventory valuation methodology, which means that the most recently incurred costs are charged to cost of sales and inventories are valued at the earliest acquisition costs. Market is determined based on an assessment of the current estimated replacement cost and selling price of the inventory. In periods where the market price of our inventory declines substantially, cost values of inventory may be higher than the market value, which results in us writing down the value of inventory to market value in accordance with the LCM rule, consistent with GAAP. This adjustment is related to our use of LIFO accounting and the decline in pricing for many of our raw material and finished goods inventories. We report our financial results in accordance with U.S. generally accepted accounting principles, but believe that certain non-GAAP financial measures, such as EBITDA and earnings and EBITDA excluding LCM, provide useful supplemental information to investors regarding the underlying business trends and performance of the company's ongoing operations and are useful for period-over-period comparisons of such operations. Non-GAAP financial measures should be considered as a supplement to, and not as a substitute for, or superior to, the financial measures prepared in accordance with GAAP.

EBITDA, as presented herein, may not be comparable to a similarly titled measure reported by other companies due to differences in the way the measure is calculated. We calculate EBITDA as income from continuing operations plus interest expense (net), provision for (benefit from) income taxes, and depreciation & amortization. EBITDA should not be considered an alternative to profit or operating profit for any period as an indicator of our performance, or as an alternative to operating cash flows as a measure of our liquidity. We have also presented financial information herein exclusive of adjustments for LCM.

While we also believe that free cash flow (FCF) and the ratio of average free cash flow to EBITDA excluding LCM are measures 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. The ratio of average free cash flow to EBITDA is calculated by dividing the average free cash flow for the period by EBITDA excluding LCM for the same period.

Information Related to Financial Measures (continued)



An analysis of capital expenditures is included to show investors the portion of LYB capital investment which is base versus profit generating. Total capital expenditures is the sum of base capital expenditures and profit generating expenditures.

Additionally, EBITDA per pound of ethylene capacity, EBITDA excluding LCM less base capital expenditures, the ratio of total debt to EBITDA excluding LCM, and the ratio of net debt to EBITDA excluding LCM are measures which provide an indicator of 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. EBITDA excluding LCM less base capital expenditures means EBITDA excluding LCM less base capital expenditures. Net debt is total debt less cash and cash equivalents, short term investments and repurchase agreements. The ratio of net debt to EBITDA excluding LCM means net debt divided by EBITDA excluding LCM.

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

EBITDA Excluding LCM Adjustments to EBITDA



Reconciliation of EBITDA Excluding LCM Adjustments to EBITDA

	For the Years Ended December 31,															
			2012										Average			
In Millions of Dollars		2011		2012		2013		2014	2015			2016		11-2016		
EBITDA Excluding LCM Adjustments:																
Olefins & Polyolefins - Americas	\$	2,137	\$	2,968	\$	3,573	\$	4,190	\$	3,821	\$	2,906	\$	3,266		
Olefins & Polyolefins - EAI		865		548		839		1,410		1,855		2,067		1,264		
Intermediates & Derivatives		1,410		1,621		1,492		1,552		1,656		1,333		1,511		
Refining		977		481		182		409		519		72		440		
Technology		191		197		232		232		243		262		226		
Other		(111)		(7)		(7)		17		(13)		(9)		(22)		
Total		5,469		5,808		6,311		7,810		8,081	_	6,631		6,685		
Less:																
LCM Adjustments:								270		1.00		20		78		
Olefins & Poly olefins - Americas		-		-		-		279		160		29				
Olefins & Polyolefins - EAI		-		-		-		44		30		-		12		
Intermediates & Derivatives		-		-		-		93		181		-		46		
Refining		-		-		-		344		177		-		87		
Technology		-		-		-		-		-		-		-		
Other																
Total				-		-		760		548		29		223		
EBITDA:																
Olefins & Polyolefins - Americas		2,137		2,968		3,573		3,911		3,661		2,877	\$	3,188		
Olefins & Polyolefins - EAI		865		548		839		1,366		1,825		2,067		1,252		
Intermediates & Derivatives		1,410		1,621		1,492		1,459		1,475		1,333		1,465		
Refining		977		481		182		65		342		72		353		
Technology		191		197		232		232		243		262		226		
Other		(111)		(7)		(7)		17		(13)		(9)		(22)		
Total	\$	5,469	\$	5,808	\$	6,311	\$	7,050	\$	7,533	\$	6,602	\$	6,462		

Net Income to EBITDA



Reconciliation of Net Income To EBITDA

T7 41	T 7	Th. J. J	Th	L 21	
For the	rears	rnaea	Decem	ber 31.	

In Millions of Dollars	2	2011		2012	2013	 2014	 2015	 2016
Net Income	\$	2,140	\$	2,834	\$ 3,853	\$ 4,168	\$ 4,474	\$ 3,837
(Income) Loss from Discontinued Operations		332		24	7	4	5	10
LCM Adjustments, After Tax						 483	 351	 18
Income from Continuing Operations Excluding LCM Adjustments		2,472		2,858	3,860	4,655	4,830	3,865
Less:								
LCM Adjustments, After Tax			-			 (483)	 (351)	 (18)
Income from Continuing Operations		2,472		2,858	3,860	4,172	4,479	3,847
Provision for Income Taxes		1,059		1,327	1,136	1,540	1,730	1,386
Depreciation and Amortization		931		983	1,021	1,019	1,047	1,064
Interest expense, net		1,007		640	294	319	277	305
LCM Adjustments, Pre Tax						760	548	29
EBITDA Excluding LCM Adjustments		5,469		5,808	6,311	7,810	8,081	6,631
LCM Adjustments, Pre Tax			-			(760)	 (548)	(29)
EBITDA	\$	5,469	\$	5,808	\$ 6,311	\$ 7,050	\$ 7,533	\$ 6,602

EBITDA Excluding LCM Less Capital Expenditures



EBITDA Excluding LCM Less Capital Expenditures

In Millions of Dollars		2011		2012	2013	2014	2015	F	2016	Average 2011-2016		
EBITDA Excluding LCM Adjustments						 						
Olefins & Polyolefins - Americas	\$	2,137	\$	2,968	\$ 3,573	\$ 4,190	\$ 3,821	\$	2,906	\$	3,266	
Olefins & Polyolefins - EAI		865		548	839	1,410	1,855		2,067		1,264	
Intermediates & Derivatives		1,410		1,621	1,492	1,552	1,656		1,333		1,511	
Refining		977		481	182	409	519		72		440	
Technology		191		197	232	232	243		262		226	
Other		(111)		(7)	 (7)	 17	 (13)		(9)		(22)	
Total		5,469		5,808	6,311	7,810	8,081		6,631		6,685	
Less:												
Capital Expenditures:												
Olefins & Polyolefins - Americas		425		468	645	912	668		1,376	\$	749	
Olefins & Polyolefins - EAI		235		254	229	191	186		261		226	
Intermediates & Derivatives		101		159	443	241	441		333		286	
Refining		224		136	209	123	108		224		171	
Technology		26		43	30	25	24		36		31	
Other		39		-	 5	 7	 13		13		13	
Total		1,050		1,060	 1,561	 1,499	 1,440		2,243		1,476	
EBITDA Excluding LCM Less Capital Ex	penditui	res:										
Olefins & Polyolefins - Americas	•	1,712		2,500	2,928	3,278	3,153		1,530	\$	2,517	
Olefins & Polyolefins - EAI		630		294	610	1,219	1,669		1,806		1,038	
Intermediates & Derivatives		1,309		1,462	1,049	1,311	1,215		1,000		1,224	
Refining		753		345	(27)	286	411		(152)		269	
Technology		165		154	202	207	219		226		196	
Other		(150)		(7)	 (12)	10	 (26)		(22)		(35)	
Total	\$	4,419	\$	4,748	\$ 4,750	\$ 6,311	\$ 6,641	\$	4,388	\$	5,210	

EBITDA Excluding LCM Less Base Capital Expenditures

lyondellbasell

EBITDA Excluding LCM Less Base Capital Expenditures

	2012								Average			
In Millions of Dollars		2012	2013		2014		 2015	 2016	2012-2016			
EBITDA Excluding LCM Adjustments												
Olefins & Polyolefins - Americas	\$	2,968	\$	3,573	\$	4,190	\$ 3,821	\$ 2,906	\$	3,492		
Olefins & Polyolefins - EAI		548		839		1,410	1,855	2,067		1,344		
Intermediates & Derivatives		1,621		1,492		1,552	1,656	1,333		1,531		
Refining		481		182		409	519	72		333		
Technology		197		232		232	243	262		233		
Other		(7)		(7)		17	 (13)	(9)		(4)		
Total		5,808		6,311		7,810	 8,081	 6,631		6,928		
Less: Base Capital Expenditures: Olefins & Poly olefins - Americas Olefins & Poly olefins - EAI		241 184		249 150		336 113	230 153	448 227		301 165		
Intermediates & Derivatives		120		213		136	322	213		201		
Refining		130		185		91	84	164		131		
Technology		24		23		24	20	16		21		
Other				5		6	6	13		6		
Total		699		825		706	815	1,081		825		
EBITDA Excluding LCM Less Base Cap	oital Exp	penditures:										
Olefins & Polyolefins - Americas		2,727		3,324		3,854	3,591	2,458	\$	3,191		
Olefins & Polyolefins - EAI		364		689		1,297	1,702	1,840		1,178		
Intermediates & Derivatives		1,501		1,279		1,416	1,334	1,120		1,330		
Refining		351		(3)		318	435	(92)		202		
Technology		173		209		208	223	246		212		
Other		(7)		(12)		11	 (19)	 (22)		(10)		
Total	\$	5,109	\$	5,486	\$	7,104	\$ 7,266	\$ 5,550	\$	6,103		

Base Capital Expenditures to Total Capital Expenditures



Reconciliation of Base Capital Expenditures to Capital Expenditures

_					7	
In Millions of Dollars	2012	2013	2014	2015	2016	Average 2012-2016
Base Capital Expenditures:						
Olefins & Polyolefins - Americas	241	249	336	230	448	301
Olefins & Polyolefins - EAI	184	150	113	153	227	165
Intermediates & Derivatives	120	213	136	322	213	201
Refining	130	185	91	84	164	131
Technology	24	23	24	20	16	21
Other		5	6	6	13	6
Total	699	825	706	815	1,081	825
Profit Generating Capital Expenditures:						
Olefins & Polyolefins - Americas	227	396	576	438	928	513
Olefins & Polyolefins - EAI	70	79	78	33	34	59
Intermediates & Derivatives	39	230	105	119	120	123
Refining	6	24	32	24	60	29
Technology	19	7	1	4	20	10
Other			1	7		2
Total	361	736	793	625	1,162	735
Capital Expenditures:						
Olefins & Polyolefins - Americas	468	645	912	668	1,376	\$ 814
Olefins & Polyolefins - EAI	254	229	191	186	261	224
Intermediates & Derivatives	159	443	241	441	333	323
Refining	136	209	123	108	224	160
Technology	43	30	25	24	36	32
Other	-	5	7	13	13	8
Total	1,060	\$ 1,561	\$ 1,499	\$ 1,440	\$ 2,243	\$ 1,561

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



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

_				For	the Years End	led D	ecember 31,		
	20)11	2012		2013		2014	2015	2016
Diluted Earnings Per Share from Continuing Operations Excluding LCM Adjustment	\$	4.32	\$ 4.96	\$	6.76	\$	8.92	\$ 10.35	\$ 9.20
Less:									
LCM Adjustments		-	 				0.92	 0.75	0.05
Diluted Earnings Per Share from Continuing Operations	\$	4.32	\$ 4.96	\$	6.76	\$	8.00	\$ 9.60	\$ 9.15

Free Cash Flow to Net Cash Provided by Operating Activities



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

In Millions of Dollars	2	2011	2012		2013		2014		2015		2016		Average 2011-2016	
Free Cash Flow	\$	1,810	\$	3,727	\$	3,274	\$	4,549	\$	4,402	\$	3,363	\$	3,521
Add:														
Capital Expenditures		1,050		1,060		1,561		1,499		1,440		2,243	\$	1,476
Net Cash Provided by Operating Activities	\$	2,860	\$	4,787	\$	4,835	\$	6,048	\$	5,842	\$	5,606	\$	4,996

O&P-EAI EBITDA Excluding LCM per Average Pound of Ethylene Capacity



Reconciliation of O&P-EAI EBITDA Excluding LCM per Average Pound of Ethylene Capacity

	For the Years Ended December 31,							
In Million of Dollars Unless Otherwise Indicated	2011	2012	2013	2014	2015	2016		
EBITDA Excluding LCM	865	548	839	1,410	1,855	2,067		
Average Annual Ethylene Capacity (Millions of Pounds)	4,829	4,829	4,829	4,829	4,829	4,829		
EBITDA Excluding LCM per Average Pound of Ethylene Capacity	17.9¢	11.3¢	17.4¢	29.2¢	38.4¢	42.8¢		

Ratio of LYB Enterprise Value (EV) to 2017 EBITDA Consensus



Calculation of Ratio of LYB Enterprise Value (EV) to 2017 EBITDA Consensus

In Million of Dollars except for common shares outstanding		
Common Shares Outstanding, December 31, 2016	40	04,046,331
Multiplied by:		
Closing Share Price, December 31, 2016	\$	85.78
Market Capitalization	\$	34,659
Add:		
Current Maturities of Long-Term Debt		2
Short-Term Debt		594
Long-Term Debt		8,385
Less:		
Cash		875
Short-Term Investments		1,147
Net Debt		6,959
Non-Controlling Interests		25
Enterprise Value		41,643
Divided by:		
2017 EBITDA Consensus		6,524
Ratio of Enterprise Value to 2017 EBITDA Consensus		6.4 x

Ratio of Average Free Cash Flow (2011-2016) to EBITDA Excluding LCM



Calculation of Ratio of Average Free Cash Flow (2011-2016) to EBITDA Excluding LCM

In Million of Dollars

T. G. 1 TI. 2011 2012	
Free Cash Flow (2011- 2016):	
2011	\$ 1,810
2012	3,727
2013	3,274
2014	4,549
2015	4,402
2016	3,363
Average FCF (2011-2016)	3,521
EBITDA Excluding LCM:	
2011	5,469
2012	5,808
2013	6,311
2014	7,810
2015	8,081
2016	 6,631
Average EBITDA Excluding LCM (2011-2016)	6,685
Ratio of Average Free Cash Flow to Average EBITDA Excluding LCM	53%

Ratio of Cumulative Dividends and Share Repurchases (2011-2016) to Average Market Capitalization



Ratio of Cumulative Dividends and Share Repurchases (2011-2016) to Average Market Capitalization

	For the Years Ended December 31,													
In Millions of Dollars	2011		2012		2013		2014		2015		2016		2011-2016	
Interim Dividends	\$	313	\$	833	\$	1,127	\$	1,403	\$	1,410	\$	1,395	\$	6,481
Special Dividends		2,580		1,582		-		-		-		-		4,162
Repurchases of Ordinary Shares		-		-		1,949		5,788		4,656		2,938		15,331
Total	\$	2,893	\$	2,415	\$	3,076	\$	7,191	\$	6,066	\$	4,333	\$	25,974
Common Shares Outstanding Multiplied by:	573,390,514		575,216,709		548,824,138		486,969,402		, ,		404,046,331			504,766,194
Average Closing Share Price		35.89	\$	45.27	\$	67.84	\$	93.66	\$	91.47	\$	81.00	\$	69.19
Average Market Capitalization	\$	20,579	\$	26,040	\$	37,232	\$	45,610	\$	40,261	\$	32,728	\$	34,924
'Ratio of Cumulative Dividends and Share Repurchases to Average Market Capitalization														74%

Ratio of Pro Forma Total Debt to EBITDA Excluding LCM



Ratio of Pro Forma Total Debt to EBITDA Excluding LCM⁽¹⁾

In Millian of Dollars	Pro Forma March 2017
In Million of Dollars Tatal Lang Town Dolta Including Compat Materities	\$ 8,387
Total Long-Term Debt, Including Current Maturities	, ,,,,,,,
Short-Term Debt	594
Total Debt, December 31, 2016	8,981
Less:	
Capital leases	96
Add:	
Unamortized Discount	59
Unamortized Debt Issuance Costs	59
Fair Value Adjustments	87
Total Pro Forma Debt	9,090
EBITDA	6,602
Add:	
LCM Adjustment	29
EBITDA Excluding LCM	\$ 6,631
Ratio of Pro Forma Debt to EBITDA Excluding LCM	1.4x

⁽¹⁾ Total pro forma debt excludes capital leases, inlcuding precious metal leases, fair value adjustments and unamortized amortization of bonds and debt issuance costs and includes impact of the March 2017 issuance of \$1000 million of 3.5% Guaranteed Notes due 2027 and repayment of the aggregate principal amount of \$1,000 million outstanding of our 5% Senior Notes due 2019.

Ratio of Net Debt to EBITDA and EBITDA Excluding LCM



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

		Forma Iarch			
In Million of Dollars	2017				
Total Long-term debt, including current maturities	\$	8,387			
Short-term debt		594			
Total debt, December 31, 2016		8,981			
Less:	-				
Capital leases		96			
Add:					
Unamortized discount		59			
Unamortized debt issuance costs		59			
Fair value adjustments		87			
Total pro forma debt		9,090			
Less:					
Cash and cash equivalents		875			
Short-term investments		1,147			
Repurchase agreements		369			
		2,391			
Pro Forma Net Debt	\$	6,699			