



Credit Suisse Basic Materials Conference

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September 14, 2016



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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.

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World-Class Scale With Leading Positions

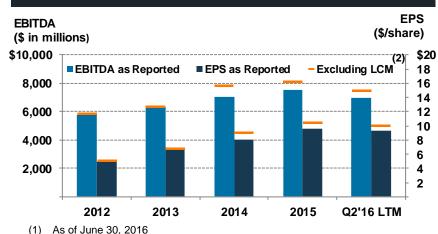


\$31 billion market capitalization ⁽¹⁾ Global independent chemical company, incorporated under Dutch law Executive offices in London, Rotterdam, and Houston

• Products sold in ~100 countries, with 57 manufacturing

Who We Are

sites across 18 countries



EBITDA / EPS Performance

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

- (3) Source: LYB, IHS as of December 31, 2015. Only pro rata ownership of joint venture facilities.
- (4) EU includes Central and Western Europe for all products except Technology and R&D which is all of Europe

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

Diversified Geographically and Across End Markets

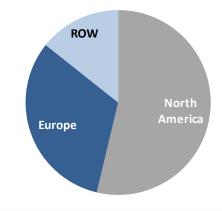
Revenue by End Use⁽¹⁾



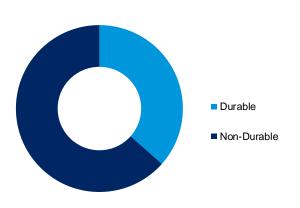
Packaging Consumer

- Building & construction
- Transportation
- Coatings
- Textiles & Fumishings
- Electronics
- Fuel

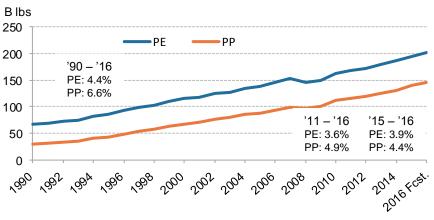
2015 Revenue by Geography



World PE and PP Demand



Durable / Non-Durable Revenue⁽¹⁾

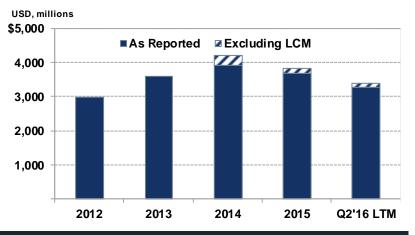


Source: Internal LYB Estimates and IHS.

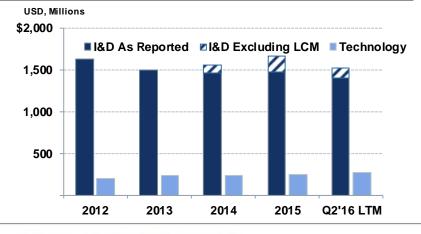
(1) Based on 2014 annual revenues. Excludes Technology segment revenues and intersegment eliminations.

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Olefins & Polyolefins - Americas



Intermediates and Derivatives and Technology

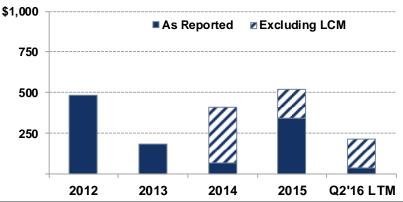


Olefins & Polyolefins - EAI



Refining





LYB's Focused Approach is Yielding Results



- Maximize value through a focus on operations
 - Safe operations \rightarrow reliable operations \rightarrow 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

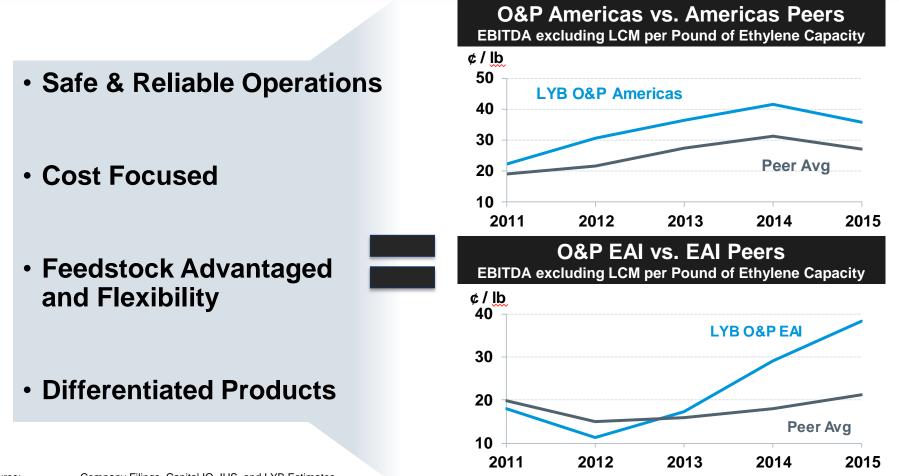
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O&P - Americas and EAI

Our Strategy is Generating Differential Results





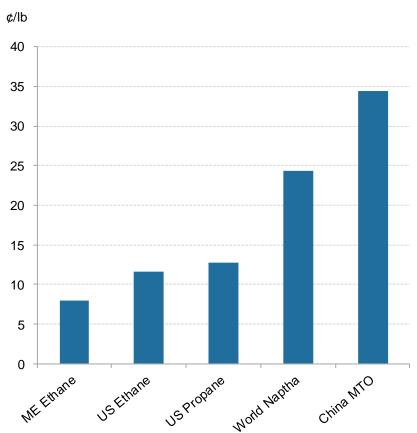
Source: Company Filings, Capital IQ, IHS, and LYB Estimates.
 Capacities: Ethylene capacities include pro-rata JV capacities and are averages based on company reports and IHS. Dow capacity is global.
 Americas EBITDA: CP Chemical is consolidated using: income before taxes + depreciation – equity income. Westlake Olefins is operating income + depreciation. INEOS O&P North America and Dow Performance Plastics EBITDA is as reported before exceptional/extraordinary items. LYB O&P Americas EBITDA excludes the impacts of LCM adjustments.
 EAI EBITDA: INEOS O&P Europe is as reported EBITDA before exceptional/extraordinary items. Borealis is operating income + depreciation + equity income. LYB O&P EAI EBITDA excludes the impacts of LCM adjustments.

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

Global Ethylene Supply / Demand (1) Capacity Demand Aug '16 Forecast ----- Q1'16 Forecast ¢/lb Billion Lbs. 500 100% 40 95% Forecast 35 450 90% 30 85% Effective Operating Rate 400 25 80% 20 350 75% 15 70% 300 10 65% 5 60% 250 0 55% 200 50% 2010 2015 2020

Global Ethylene Cash Cost (2)

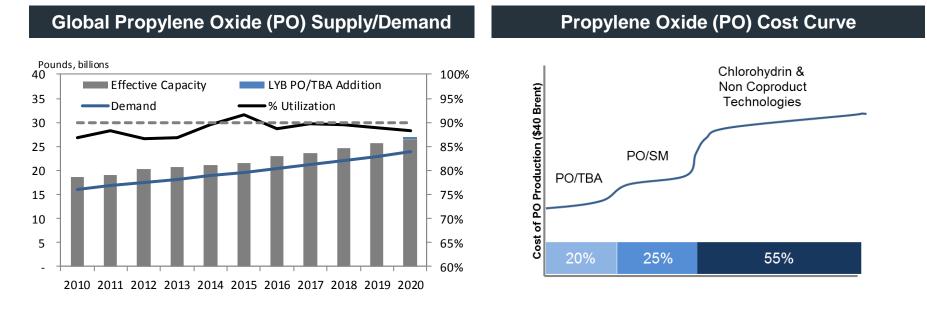
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1) Source: IHS. Operating Rates are calculated assuming 4% industry downtime. Demand and Q1'16 Forecast are sourced from the IHS Chemical Supply and Demand 2016 Balance Update. Capacity and Aug '16 Forecast are sourced from the IHS Chemical Capacity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

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

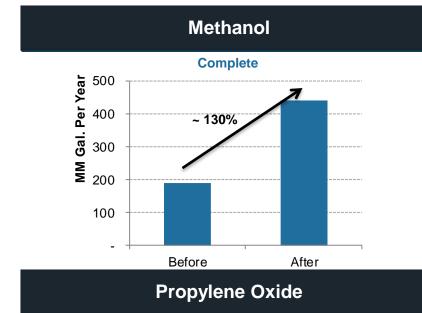




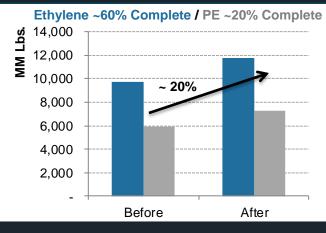
- Worldwide propylene oxide demand growth equivalent to one new world scale plant a year
- New PO/TBA plant benefits from stable propylene oxide and advantaged oxyfuels
- LYB's PO production capacity is approximately a 50/50 split between PO/TBA and PO/SM technologies, the two lowest cost technologies

Source: LYB, IHS.

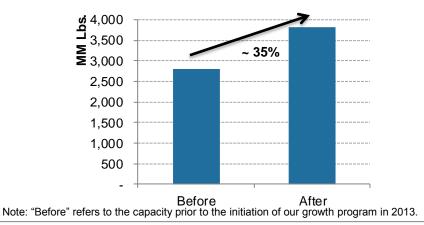
Organic Growth Adding Value: Significantly Expanding our Advantaged Positions

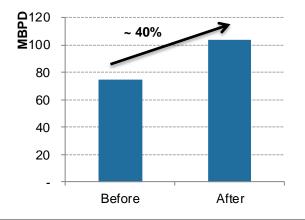






MTBE Equivalent





Cash Deployment Hierarchy

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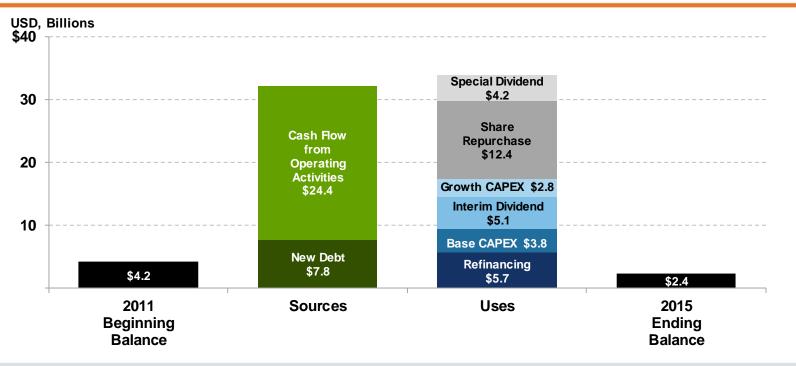
| | | 2015 | Comments |
|--------------------------------|------------------|------------------------------|--|
| | Base Capex | ~ \$800 million | . First priorities for each |
| Foundation | Interest Expense | ~ \$310 million | First priorities for cash |
| | Interim Dividend | | Fund through the cycle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

All options under continual evaluation to optimize shareholder value

Source: LYB

Substantial Cash Flow Deployment Following a Consistent Philosophy





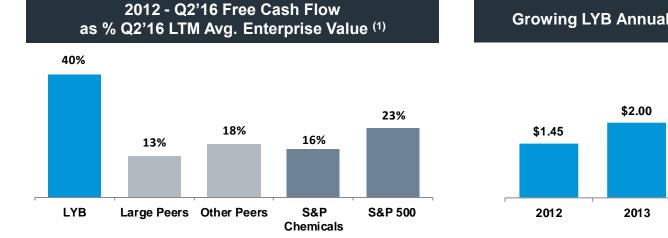
Adding Value:

- Refinancing: Reducing interest expense and optimizing debt portfolio
- Base CAPEX: Investments driving high reliability and returns from existing assets
- Interim Dividend: Progressive dividend providing income from owning LYB
- Growth CAPEX: Organic growth with fast, high-return capacity expansions
- Share Repurchase and Special Dividends: Additional return of value to shareholders

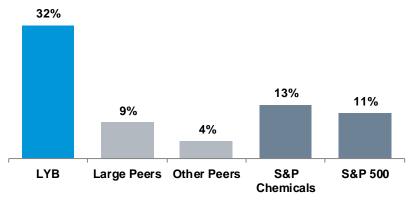
Note: Includes Cash and Liquid Investments.

Cash Generation, Dividends and Buybacks Significantly Outpace Peers and S&P 500

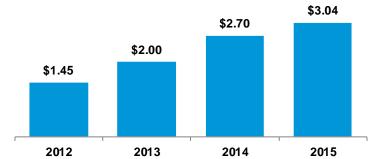
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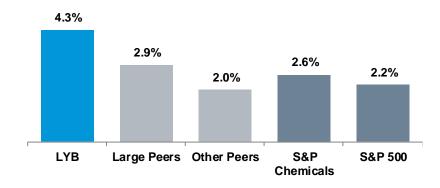
2012 - Q2'16 Share Repurchases as % of Q2'16 LTM Avg. Enterprise Value ⁽³⁾



Growing LYB Annual Dividend (per Share) ⁽²⁾



Q2'16 Dividend Yield in Top 15% of S&P 500⁽⁴⁾



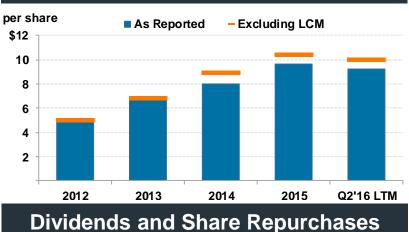
Source: Capital IQ and LYB. For definitions and peer group definitions, please see the Glossary in the Appendix to this presentation.

(1) S&P data calculated based upon individual constituent data as of June 30, 2016 (2) Excludes special dividends paid in 2012 of \$2.75 per share.

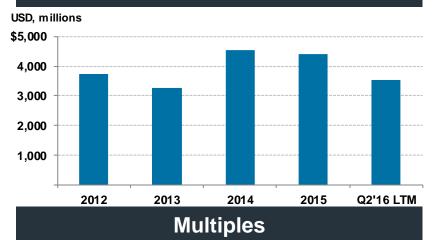
(3) LYB and Capital IQ as of June 30, 2016 (4) Q2'16 LTM using LYB and Capital IQ as of June 30, 2016

Outperformance Coupled with a Shareholder Friendly Approach

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Free Cash Flow

| | Multiples (trailing 12 months as of 6/30/16) | LYB | S&P Chemicals | S&P 500 |
|-----------|--|------|------------------|------------|
| | EV/EBITDA Excluding LCM ⁽¹⁾ | 5.8x | 10.4x | 11.3x |
| | P/E ⁽²⁾ | 7.5x | 18.5x | 24.3x |
| Q2'16 LTM | | | | |

Industry leading performance and statistics at a lagging multiple

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

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2012

Share RepurchasesSpecial Dividends

Interim Dividends

2013

2014

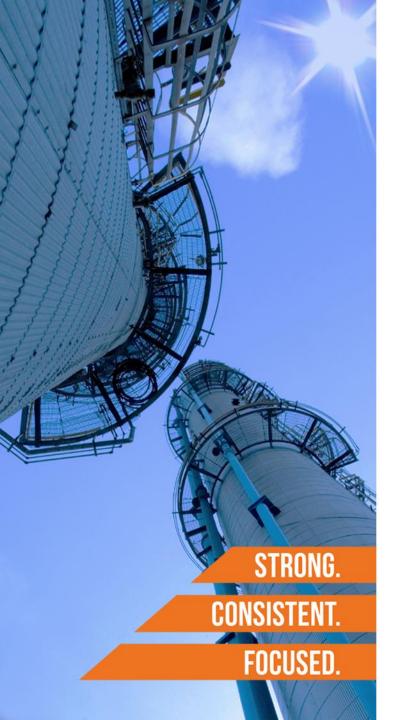
2015

\$ millions \$8,000 ----

6,000

4,000

2,000



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Appendix

Each Business is Operated to Maximize Results



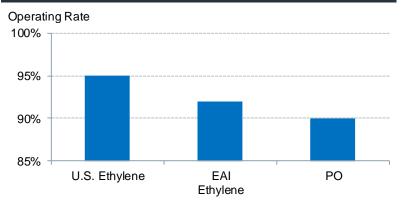
| <u>Segment</u> | LYB Market Position | <u>Priority</u> | Q2'16 LTM EBITDA (ex. LCM) |
|---|--|-----------------|-------------------------------|
| Olefins & Polyolefins (O&P) – Americas | U.S. Shale NGL advantageIncreasing capacity | Invest | \$3.4 B |
| Olefins & Polyolefins (O&P) – EAI | Commodities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

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

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

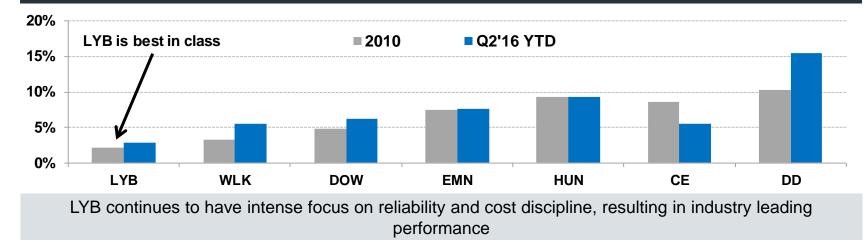


2015 LYB Operating Reliability



Fixed Costs⁽¹⁾

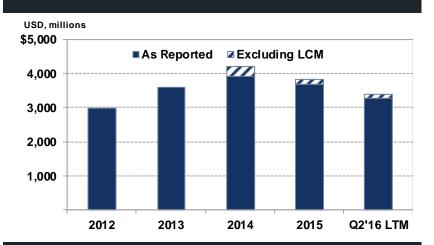
SG&A as Percent of Revenue – LYB vs. Peer Companies



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

O&P Americas NGL Advantage with Flexible, Reliable Operations

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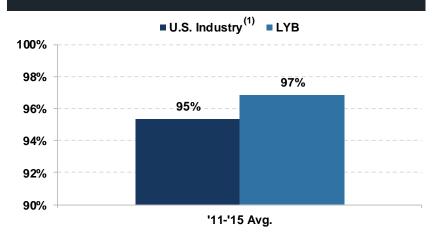
EBITDA Performance

LYB Flexibility Maximum % Ethylene from Feedstock

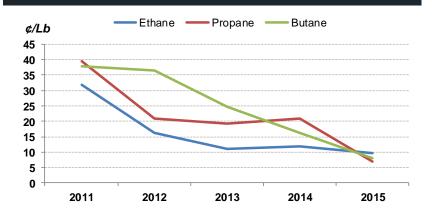
| Feed | System |
|-----------------|--------|
| NGL | ~90% |
| Ethane | ~80% |
| Propane | ~20% |
| Butane | ~15% |
| Liquids | ~55% |
| Minimum Liquids | ~10% |
| cluding LVB | |

(1) U.S. Industry excluding LYB

Operating Reliability vs. U.S. Industry

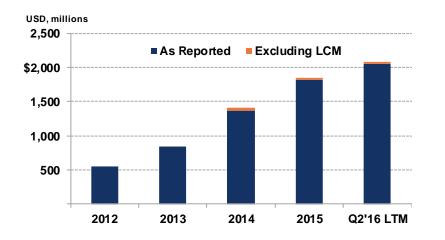


Cost of Ethylene Production

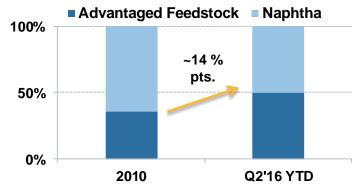


O&P – EAI Record EBITDA and a Restructured Business Approach

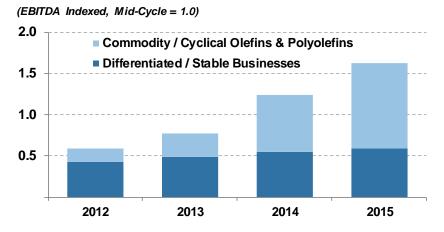
EBITDA Performance



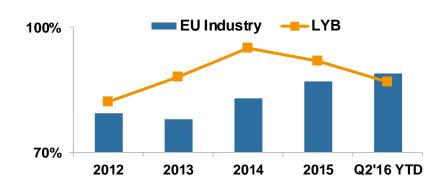
Producing from Advantaged Feedstock



Indexed O&P EAI EBITDA⁽¹⁾



Western Europe Olefins Operating Rate



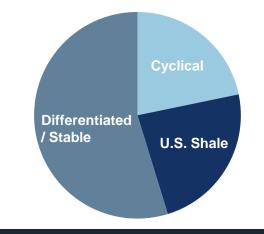
Source: LYB.

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

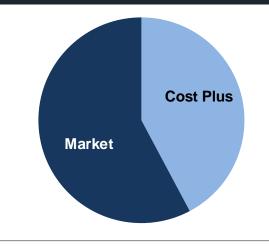
Segment Diversity: a Platform for Stable Profitability

Differentiated Proprietary Technology (2015 EBITDA)

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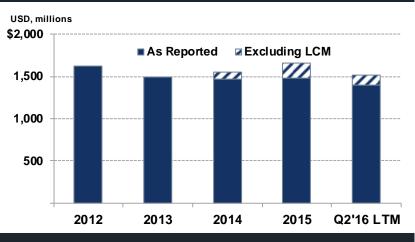


Contracting Strategy⁽¹⁾

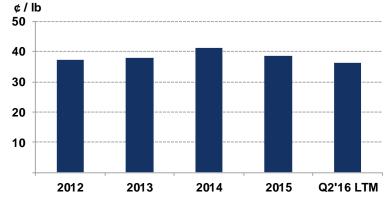


EBITDA Performance

I&D



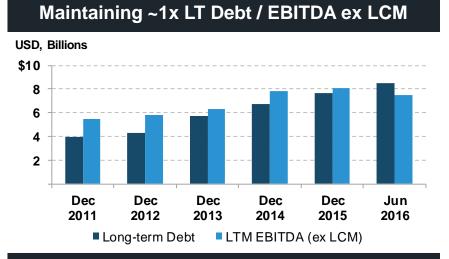
Propylene Glycol Raw Material Margin



Source: LYB, Chemical Data (PG Raw Material Margin) (1) Internal LYB estimates derived from forecasted third party sales, 2015.

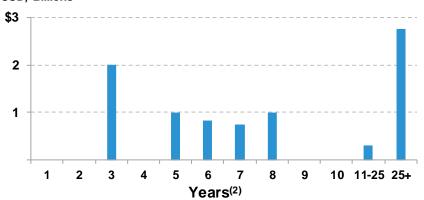
Active Debt Portfolio Management Contributes to Strong Performance



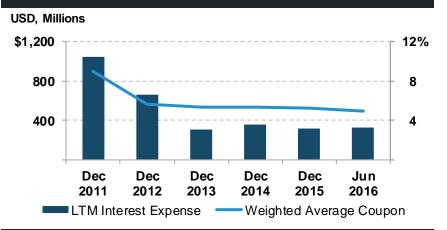


Increased LT Debt Maturity

USD, Billions



Reduced Interest Expense ⁽¹⁾



Results

- Consistent debt / EBITDA ratios
- Strong S&P BBB+ corporate rating
- Interest expense reduced by ~ 70%
- Less than \$6B of short tenor (<10yr) debt
 - >30% of LT Debt is 25+ yrs.

1) Weighted average coupon is for long-term debt only and based on stated coupon and par value. Interest expense for the years 2014-2016 includes beneficial impacts of hedging activity. 2) Maturity of LYB LT debt as of June 30, 2016 based on par value.

LyondellBasell in 2015

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| EARNINGS | CASH FLOW | SHAREHOLDER RETURNS RETURN MEASURES | | |
|--|--|---|--|--|
| Diluted EPS ex. LCM ⁽¹⁾ \$10.35 | Cash from Operations \$5.8 Billion | Dividends \$1.4 Billion 3.6% Dividend Yield Top 16% of the S&P 500 | \$1.4 Billion 3.6% Dividend Yield | sted Capital |
| EBITDA ex. LCM \$8.1 Billion | Free Cash Flow \$4.4 Billion | Share Repurchases \$4.7 BillionTotal Shareholder Return52 million sharesvs. S&P 50011% of shares outstanding Top 3% of the S&P 500(2)1 year: 13% vs1% 3 years: 67% vs. 47% 5 years: 254% vs. 65% | \$4.7 Billion 52 million shares 11% of shares outstanding | Return s. S&P 500 ar: 13% vs1% rs: 67% vs. 47% |

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

(2) Share repurchases ranked as a percentage of LTM Average Enterprise Value.

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2Q 2016 Highlights

(\$ in millions, except per share data) 2Q15 1Q16 2Q16 2 EBITDA \$2,186 \$1,807 \$1,783 \$

Income from Continuing Operations

Diluted Earnings (\$ / share) from Continuing Operations

Strong EPS Performance As Reported - Excluding LCM 2.50 2.00 1.50 0.00 2.2015 3Q 2015 4Q 2015 1Q 2016 2Q 2016 • Po • Ind and • Ref • Autor • Ind • Autor • Ind •

| A | s Reporte | d | Excl | uding LC | M ⁽¹⁾ |
|---------|-----------|---------|---------|----------|------------------|
| 2Q15 | 1Q16 | 2Q16 | 2Q15 | 1Q16 | 2Q16 |
| \$2,186 | \$1,807 | \$1,783 | \$2,177 | \$1,875 | \$1,715 |
| \$1,326 | \$1,030 | \$1,092 | \$1,320 | \$1,077 | \$1,045 |
| \$2.81 | \$2.37 | \$2.56 | \$2.79 | \$2.48 | \$2.45 |

Highlights

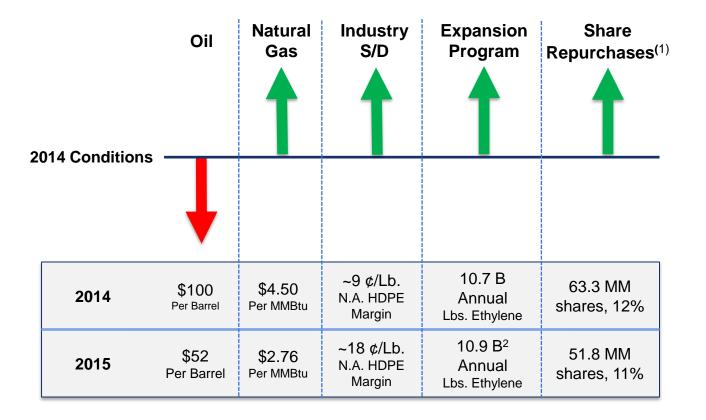
- Polyolefins capturing strong O&P chain margins
- Industry trends provided improved olefin, refining and oxyfuel pricing
- Refinery returned to normal production mid-July
- \$1.1 billion in 2Q16 share repurchases and dividends
- Authorized a fourth share repurchase program of up to 10% of shares over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

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

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

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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.

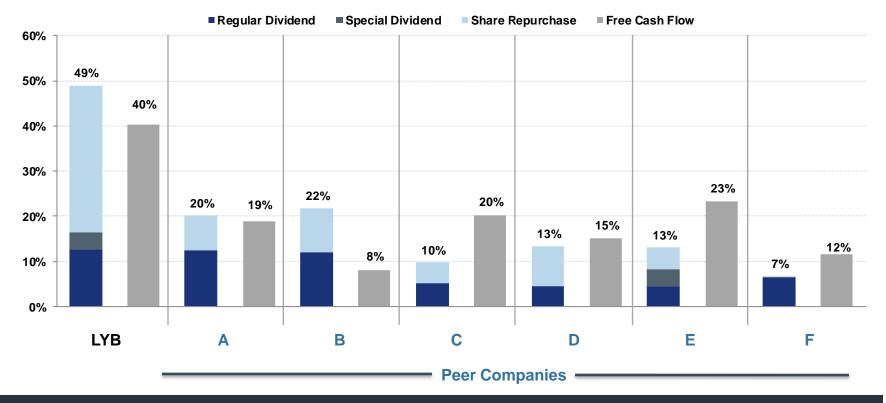
(1) Share repurchase percentage is calculated off of the outstanding shares as of Dec. 31, 2013 and 2014, respectively.

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

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2012 - Q2'16 Shareholder Returns of Capital and Free Cash Flow as % of Q2'16 LTM Average Enterprise Value



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

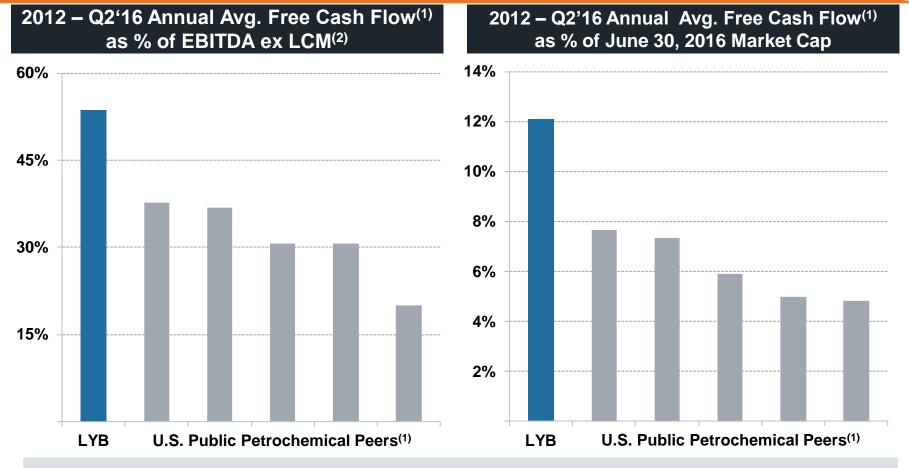
Source: SEC filings, Bloomberg, Capital IQ

Enterprise Value for LYB is calculated based on reported line items. For Peer Companies, Enterprise Value is calculated as the average of the daily share price multiplied by the number of shares outstanding during the last twelve months as of June 30, 2016 as per Capital IQ.

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.

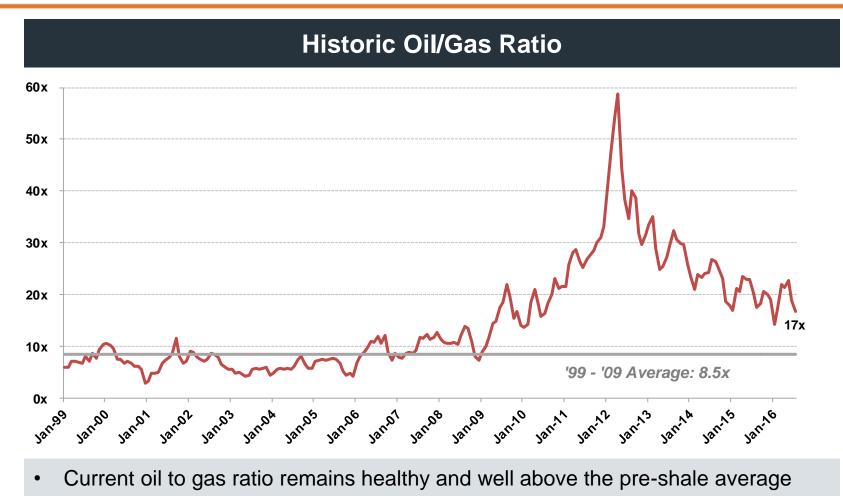
(1) 2016 Free Cash Flow is annualized based upon the first six months. For definitions and peer group definitions, please see the Glossary in this Appendix.

(2) 2016 EBITDA is annualized based upon the first six months. 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.

Healthy Oil to Gas Ratio

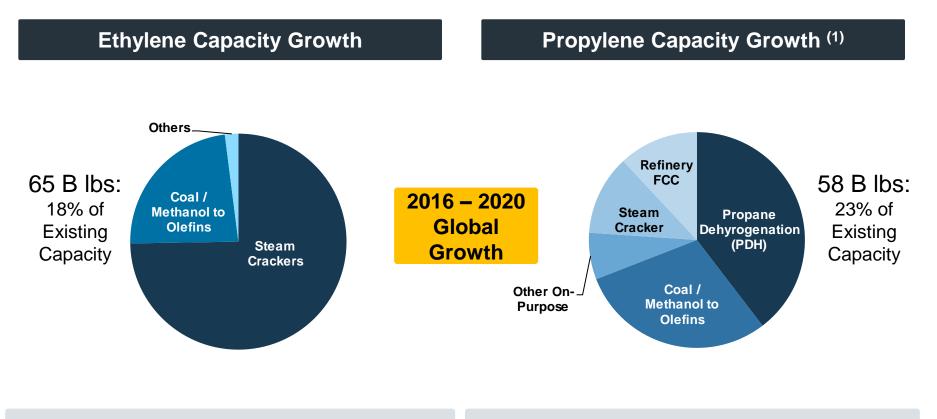




• Historic equivalent value of crude oil to gas implies a price of ~ \$15-25 per barrel

Source: NYMEX, ICE.

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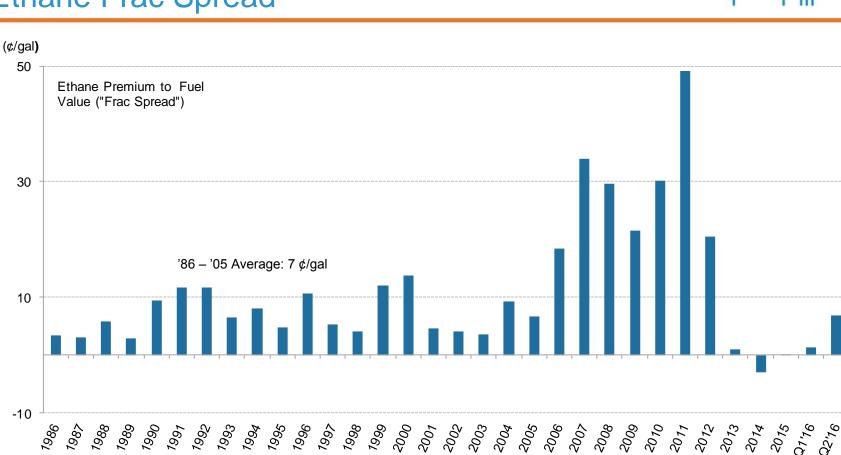
- Ethylene Demand Growth ~ 65 Blbs
- Ethylene Supply Growth ~ 75% conventional

Propylene Demand Growth ~ 52 Blbs

Propylene Supply Growth ~ 75% On-purpose

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

Ethane Frac Spread



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

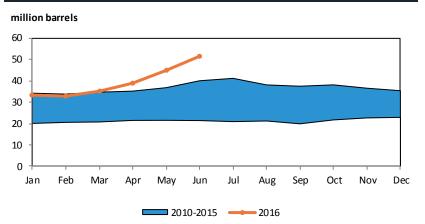
Source: IHS

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NGLs Remain Abundant

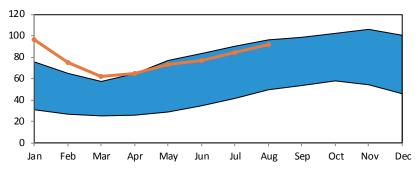
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Ethane Inventory





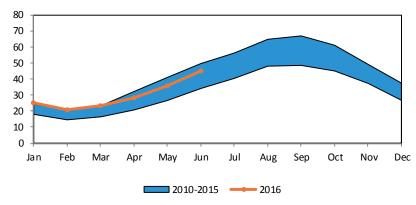


2010-2015 -2016

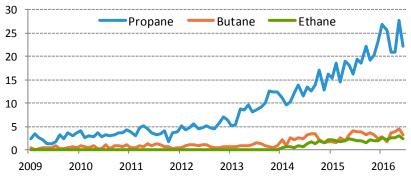
NGL Exports

Butane Inventory

million barrels



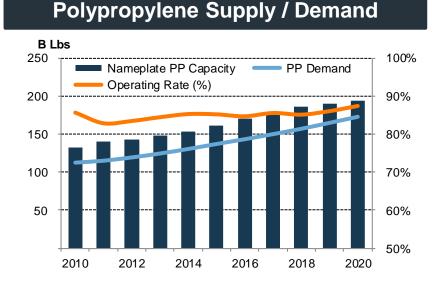
million barrels



Source: EIA

Global PP Supply/Demand

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NA PP: Tight Market Driving Margin Operating Rate ¢/lb 100% 50 **PP Operating Rate** 40 90% 30 80% PP Spread over Monomer 20 70% 60% 10 50% 0 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016

Polypropylene Advantages

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

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

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

Status of Growth Projects



Potential EBITDA⁽¹⁾

| | | | | | (\$ million | / year) |
|-------------|---------------------------------------|------------------------------|------------|----------------------|-------------------------|-----------------|
| | Project | Scope (million Lbs.) | Start-up | Cost (\$ million) | 2011-15 Avg. Margins | 2015 Margins |
| | Increase Ethane Capability | 500 | 2012 | ~\$25 | \$60 - 80 | \$30 – 50 |
| | Midwest Ethylene / PE | 120 | 2012 | ~\$25 | \$30 - 40 | \$20 – 30 |
| | EU Butadiene Expansion(2) | 155 | Mid 2013 | ~\$100 | \$40 - 50 | \$40 - 50 |
| | Methanol Restart | 250 MM Gal. | Dec. 2013 | ~\$180 | \$210 – 230 | \$170 – 190 |
| COMPLETED | Matagorda PE Debottleneck | 220 | Early 2014 | ~\$20 | \$5 – 10 | \$40 - 50 |
| | La Porte Ethylene Expansion | 800 | Mid 2014 | ~\$500 | \$190 – 250 | \$150 – 220 |
| | Channelview Ethylene Expansion (I) | 250 | Mid 2015 | ~\$200 | \$60 - 80 | \$50 – 70 |
| | Completed Projects | | | ~\$1,050 | \$595 – 740 | \$500 - 660 |
| | Corpus Christi Ethylene Expansion | 800 | Q3 2016 | ~\$800 | \$190 – 250 | \$150 – 220 |
| PROGRESSING | New PO/TBA Plant | 1,000 PO 29 MBPD Oxyfuels | 2020 | ~\$2,000 - 2,200 | \$490 – 540 | \$450 – 510 |
| | HDPE Plant | 1,100 | 2019 | ~\$700 | \$30 – 70 | \$180 - 230 |
| | Remaining Projects | | | ~\$3,500 - 3,700 | \$710 – 860 | \$780 – 960 |
| | Total | | | ~\$4,550 - 4,750 | \$1,305 – 1,600 | \$1,280 – 1,620 |

Source: LYB, Chemical Data and IHS.

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

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

Information Related to Financial Measures



This presentation makes reference to certain "non-GAAP" financial measures as defined in Regulation G of the U.S. Securities Exchange Act of 1934, as amended. The non-GAAP measures we have presented include income from continuing operations excluding LCM, diluted earnings per share excluding LCM, EBITDA and EBITDA excluding LCM. LCM stands for "lower of cost or market," which is an accounting rule consistent with GAAP related to the valuation of inventory. Our inventories are stated at the lower of cost or market. Cost is determined using the last-in, first-out ("LIFO") inventory valuation methodology, which means that the most recently incurred costs are charged to cost of sales and inventories are valued at the earliest acquisition costs. Market is determined based on an assessment of the current estimated replacement cost and selling price of the inventory. In periods where the market price of our inventory declines substantially, cost values of inventory may be higher than the market value, which results in us writing down the value of inventory to market value in accordance with the LCM rule, consistent with GAAP. This adjustment is related to our use of LIFO accounting and the recent decline in pricing for many of our raw material and finished goods inventories. We report our financial results in accordance with U.S. generally accepted accounting principles, but believe that certain non-GAAP financial measures, such as EBITDA and earnings and EBITDA excluding LCM, provide useful supplemental information to investors regarding the underlying business trends and performance of the company's ongoing operations and are useful for period-over-period comparisons of such operations. Non-GAAP financial measures should be considered as a supplement to, and not as a substitute for, or superior to, the financial measures prepared in accordance with GAAP.

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

Cash and Liquid Investments is a measure which provides investors a view of the financial flexibility for future strategic capital or cash deployment. Cash and Liquid Investments include cash and cash equivalents, short-term investments, and repurchase agreements.

While we also believe that free cash flow, free cash flow as a percent of average enterprise value, free cash flow as a percent of EBITDA, and average annual free cash flow as a percent of market cap are measures commonly used by investors. The measures, as presented herein, may not be comparable to similarly titled measures reported by other companies due to differences in the way the measures are calculated. For purposes of this presentation, free cash flow means net cash provided by operating activities minus capital expenditures. Free cash flow as a percent of average enterprise value means the sum of the free cash flow for the period divided by the average enterprise value where the average enterprise value is calculated using the average daily closing share price for the period. Free cash flow as a percent of EBITDA means the sum of the free cash flow for the period divided by the sum of the EBITDA for the period. Average annual free cash flow as a percent of market cap means the average of the free cash flows for the period by the average of the free cash flow so a percent of market cap means the average of the free cash flow for the period divided by the sum of the EBITDA for the period. Average annual free cash flow as a percent of market cap means the average of the free cash flows for the periods presented divided by the market cap at period end.

LT Debt/EBITDA excluding LCM provides investors with an indication of the company's ability to service its debt. For the purposes of this presentation, LT Debt/EBITDA excluding LCM means the sum of long-term debt and current maturities of long-term debt divided by EBITDA excluding LCM. Additionally, EBITDA per pound of ethylene capacity and EV/EBITDA are measures which provide an indicator of firm value to investors. For purposes of this presentation, EBITDA per pound of ethylene capacity means annual segment EBITDA divided by end of year segment ethylene capacity in pounds and EV/EBITDA means the average enterprise value where the average enterprise value is calculated using the average daily closing share price for the period divided by the EBITDA for the period.

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

Glossary and Peer Groups



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

Peer Groups

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

^{*} See reconciliations at end of presentation.

EBITDA Excluding LCM Adjustments 2011 - 2015



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

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



Reconciliation of Net Income to EBITDA

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

EBITDA Excluding LCM Adjustments to Reported EBITDA



Reconciliation of EBITDA Excluding LCM Adjustments to EBITDA

| | | Three | Months Ended | | | Three 1 | Aonths Ended | Six | Months | s Ended | | Six Mont | ths Ended | Last Twelve Months |
|----------------------------------|-------------------|------------------|-----------------------|----------------------|----------|-------------------|------------------|----------------|----------|------------------|----------|------------------|------------------|-----------------------|
| In Millions of Dollars | March 31, 2015 | June 30, 2015 | September 30, 2015 | December 31, 2015 | 2015 | March 31, 2016 | June 30, 2016 | June 3 2016 |), | June 30, 2015 | 2015 | June 30, 2015 | June 30, 2016 | June 30, 2016 |
| EBITDA Excluding LCM Adjust | ments: | | | | | | | | | | | | | |
| Olefins & Polyolefins - Americas | \$ 1,074 | \$ 993 | \$ 920 | \$ 834 | \$ 3,821 | \$ 87 | 3 \$ 754 | \$ 1 | ,632 | \$ 2,067 | \$ 3,821 | \$ (2,067) | \$ 1,632 | \$ 3,386 |
| Olefins & Polyolefins - EAI | 357 | 492 | 555 | 451 | 1,855 | 54 | 53 | 1 | ,085 | 849 | 1,855 | (849) | \$ 1,085 | 2,091 |
| Intermediates & Derivatives | 381 | 483 | 506 | 286 | 1,656 | 35 | 4 36 | | 723 | 864 | 1,656 | (864) | \$ 723 | 1,515 |
| Refining | 154 | 154 | 143 | 68 | 519 | 1 | 4 (1 |) | 1 | 308 | 519 | (308) | \$ 1 | 212 |
| Technology | 76 | 57 | 45 | 65 | 243 | 8 | 3 7: | | 156 | 133 | 243 | (133) | \$ 156 | 266 |
| Other | 2 | (2) | 13 | (26) | (13) | (| 3) (4 | .) | (7) | | (13) | | \$ (7) | (20) |
| Total | 2,044 | 2,177 | 2,182 | 1,678 | 8,081 | 1,87 | 5 1,71: | 3 | ,590 | 4,221 | 8,081 | (4,221) | 3,590 | 7,450 |
| | | | | | | | | | | | | | | |
| Less: | | | | | | | | | | | | | | |
| LCM Adjustments: | | | | | | | | | | | | | | |
| Olefins & Polyolefins - Americas | 43 | (21) | 79 | 59 | 160 | - | - | | - | 22 | 160 | (22) | - | 138 |
| Olefins & Polyolefins - EAI | - | - | 6 | 24 | 30 | 4 | | , , | - | - | 30 | - | - | 30 |
| Intermediates & Derivatives | 44 | 17 | 46 | 74 | 181 | 2 | 3 (2 | 5) | - | 61 | 181 | (61) | - | 120 |
| Refining | 5 | (5) | 50 | 127 | 177 | - | - | | - | - | 177 | - | - | 177 |
| Technology | - | - | - | - | - | - | - | | - | - | - | - | - | - |
| Other | | - | | - | - | - | | | - | - | | - | | - |
| Total | 92 | (9) | 181 | 284 | 548 | 6 | . (6 | <u> </u> | <u> </u> | 83 | 548 | (83) | | 465 |
| EBITDA: | | | | | | | | | | | | | | |
| Olefins & Polyolefins - Americas | 1,031 | 1,014 | 841 | 775 | 3,661 | 87 | 3 754 | 1. | 632 | 2,045 | 3,661 | (2,045) | 1,632 | 3,248 |
| Olefins & Polyolefins - EAI | 357 | 492 | 549 | 427 | 1,825 | 50 | 570 | 1. | 085 | 849 | 1,825 | (849) | 1,085 | 2,061 |
| Intermediates & Derivatives | 337 | 466 | 460 | 212 | 1,475 | 32 | 5 39 | | 723 | 803 | 1,475 | (803) | 723 | 1,395 |
| Refining | 149 | 159 | 93 | (59) | 342 | 1 | 4 (1) | | 1 | 308 | 342 | (308) | 1 | 35 |
| Technology | 76 | 57 | 45 | 65 | 243 | 8 | | | 156 | 133 | 243 | (133) | 156 | 266 |
| Other | 2 | (2) | 13 | (26) | (13) | (| 3) (4 | .) | (7) | - | (13) | - | (7) | (20) |
| Total | \$ 1,952 | \$ 2,186 | \$ 2,001 | \$ 1,394 | \$ 7,533 | \$ 1,80 | 7 \$ 1,78 | \$ 3 | ,590 | \$ 4,138 | \$ 7,533 | \$ (4,138) | \$ 3,590 | \$ 6,985 |



Reconciliation of Net Income To EBITDA

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

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



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

| | | For th | e Twelve | Mont | hs Ended | Dece | mber 31, | |
|---|------------|--------|----------|------|----------|------|----------|-------------|
| | 2011 | 2 | 2012 | : | 2013 | , | 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

| | | | | Three] | Mont | hs Ended | | | | | | Three Mont | hs En | ded | | Six Mont | hs End | ed | T | Last welve onths |
|---|----|---------|-------|---------|------|------------|----|-------------|----|-------|----|------------|-------|--------|------|----------|----------|----------|----|------------------------|
| | | rch 31, | | ne 30, | Sep | tember 30, | De | ecember 31, | | 2015 | Ν | farch 31, | | ne 30, | T | 20 2016 | L | 20 2015 | | ne 30, |
| | | 2015 | 5 201 | | | 2015 | | 2015 | | 2015 | | 2016 | | 2016 | June | 30, 2016 | June | 30, 2015 | | 2016 |
| Diluted Earnings Per Share from Continuing Operations | | | | | | | | | | | | | | | | | | | | |
| Excluding LCM Adjustments | \$ | 2.54 | \$ | 2.79 | \$ | 2.80 | \$ | 2.20 | \$ | 10.35 | \$ | 2.48 | \$ | 2.45 | \$ | 4.93 | \$ | 5.33 | \$ | 9.94 |
| Less: | | | | | | | | | | | | | | | | | | | | |
| LCM Adjustments | | 0.12 | | (0.02) | | 0.25 | | 0.42 | | 0.75 | | 0.11 | | (0.11) | | _ | | 0.11 | | 0.68 |
| Diluted Earnings Per Share | \$ | 2.42 | \$ | 2.81 | \$ | 2.55 | \$ | 1.78 | \$ | 9.60 | \$ | 2.37 | \$ | 2.56 | \$ | 4.93 | \$ | 5.22 | \$ | 9.26 |
| Diated Lanning, I et Share | Ψ | 2.72 | Ψ | 2.01 | Ψ | 2.33 | Ψ | 1.70 | Ψ | 2.00 | Ψ | 2.31 | Ψ | 2.30 | Ψ | 1.75 | Ψ | 5.22 | Ψ | 7.20 |

Free Cash Flow to Net Cash Provided by Operating Activities

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

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



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

| In Million of Dollars except for common shares outstandi | ng | |
|--|----|-----------|
| Common Shares Outstanding, June 30, 2016 | 41 | 9,381,566 |
| Multiplied by: | | |
| Average Closing Share Price, 2Q'2016 LTM | \$ | 86.01 |
| Market Capitalization | \$ | 36,071 |
| Add: | | |
| Current Maturities of Long-Term Debt | | 4 |
| Short-Term Debt | | 616 |
| Long-Term Debt | | 8,485 |
| Less: | | |
| Cash | | 1,060 |
| Short-Term Investments | | 1,023 |
| Net Debt | | 7,022 |
| Non-Controlling Interests | | 24 |
| Enterprise Value | | 43,117 |
| Divided by: | | |
| Last 12 Months EBITDA Excluding LCM | | 7,450 |
| Ratio of Enterprise Value to EBITDA Excluding LCM | | 5.8x |



Reconciliation of Average Free Cash Flow (2012 through Annualized 2016) as a Percent of EBITDA Excluding LCM Adjustments

| | | For | the ` | Years En | ded I | December | 31, | | Anı | nualized | Ave | rage |
|---|----------|-------|-------|----------|-------|----------|-----|-------|-----|----------|------|--------|
| In Million of Dollars | | 2012 | | 2013 | | 2014 | | 2015 | 20 |)16 (1) | 2012 | - 2016 |
| Net Cash Provided by Operating Activities | \$ | 4,787 | \$ | 4,835 | \$ | 6,048 | \$ | 5,842 | \$ | 5,122 | \$ | 5,327 |
| Less: | | | | | | | | | | | | |
| Capital Expenditures | | 1,060 | | 1,561 | | 1,499 | | 1,440 | | 2,180 | | 1,548 |
| Free Cash Flow | \$ 3,727 | | | 3,274 | \$ | 4,549 | \$ | 4,402 | \$ | 2,942 | \$ | 3,779 |
| EBITDA ex LCM | \$ | 5,808 | \$ | 6,311 | \$ | 7,810 | \$ | 8,081 | \$ | 7,180 | \$ | 7,038 |
| Free Cash Flow as a Percent of EBITDA | 64% | | | 52% | | 58% | | 54% | | 41% | | 54% |
| (1) Annualized based upon the first half of 2016. | | | | | | | | | | | | |

| lyon | de | lbase | 2 |
|------|----|-------|----|
| 1 | 1 | | 11 |

| Calculation of Ratio of Free Cash Flow to Average Enterprise V | alue | e (EV) |
|--|------|-------------|
| In Million of Dollars except for common shares outstanding | | |
| Free Cash Flow (2012-Q2'2016) | \$ | 17,423 |
| Average Q2'2016 LTM Enterprise Value | | |
| Common Shares Outstanding, June 30, 2016 Multiplied by: | | 419,381,566 |
| Average Daily Closing Share Price, 2Q'2016 LTM | | 86.01 |
| Market Capitalization | \$ | 36,071 |
| Add: | | |
| Current Maturities of Long-Term Debt | | 4 |
| Short-Term Debt | | 616 |
| Long-Term Debt | | 8,485 |
| Less: | | |
| Cash | | 1,060 |
| Short-Term Investments | | 1,023 |
| Net Debt | | 7,022 |
| Non-Controlling Interests | | 24 |
| Enterprise Value | \$ | 43,117 |
| Patie of Free Cash Flow to Average Enterprise Velue | | 40% |
| Ratio of Free Cash Flow to Average Enterprise Value | | 40% |

Reconciliation of Free Cash Flow as a Percent of Market Capitalization - 2012 Through Annualized 2016

| | | For | the Y | ears End | ed De | ecember | 31, | | Anı | nualized | A | werage |
|--|------|-------|-------|----------|-------|---------|-----|-------|-----|----------|-----|----------|
| In Million of Dollars | 2012 | | | 2013 | | 2014 | | 2015 | 20 |)16 (1) | 201 | 2 - 2016 |
| Net Cash Provided by Operating Activities | \$ | 4,787 | \$ | 4,835 | \$ | 6,048 | \$ | 5,842 | \$ | 5,122 | \$ | 5,327 |
| Less: | | | | | | | | | | | | |
| Capital Expenditures | | 1,060 | | 1,561 | | 1,499 | | 1,440 | | 2,180 | | 1,548 |
| Free Cash Flow | \$ | 3,727 | \$ | 3,274 | \$ | 4,549 | \$ | 4,402 | \$ | 2,942 | \$ | 3,779 |
| Market Capitalization at June 30, 2016 | | | | | | | | | | | \$ | 31,210 |
| Free Cash Flow as a Percent of Market Capitalization | | | | | | | | | | | | 12% |
| (1) Annualized based upon the first half of 2016. | | | | | | | | | | | | |



Calculation of LYB Return on Invested Capital (ROIC)

| | Y | ears Ended | Decem | ıber 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% |
| | | | | |



Schedule of Spending for Dividends and Share Repurchases

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

Ratio of Shareholder Returns of Capital to Average Enterprise Value

Calculation of Ratio of Shareholder Returns of Capital (2012 - Q2'2016) to Average Enterprise Value (EV)

In Million of Dollars except for share data

| Shareholder Returns of Capital (2012 - Q2'2016) | | |
|---|----|------------|
| Share Repurchases | \$ | 14,075 |
| Special Dividends | | 1,582 |
| Interim/Regular Dividends | | 5,471 |
| | | 21,128 |
| Average Q2'2016 LTM Enterprise Value | | |
| Common Shares Outstanding, June 30, 2016 | 2 | 19,381,566 |
| Multiplied by: | | |
| Average Daily Closing Share Price, Q2'2016 LTM | | 86.01 |
| Market Capitalization | \$ | 36,071 |
| Add: | | |
| Current Maturities of Long-Term Debt | | 4 |
| Short-Term Debt | | 616 |
| Long-Term Debt | | 8,485 |
| Less: | | |
| Cash | | 1,060 |
| Short-Term Investments | | 1,023 |
| Net Debt | | 7,022 |
| Non-Controlling Interests | | 24 |
| Enterprise Value | \$ | 43,117 |

| Ratio of Shareholder Returns of Capital (2012 - Q2'2016) to Aver | rage Enterprise Value |
|--|-----------------------|
| Share Repurchases | 32% |
| Special Dividends | 4% |
| Interim/Regular Dividends | 13% |
| Total | 49% |
| | |

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EBITDA Excluding LCM per Average Pound of Ethylene Capacity



Reconciliation of 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 |
| EBITDA Excluding LCM: | | | | | | | | | | |
| O&P–Americas | \$ | 2,137 | \$ | 2,968 | \$ | 3,573 | \$ | 4,190 | \$ | 3,821 |
| O&P–EAI | | 865 | | 548 | | 839 | | 1,410 | | 1,855 |
| Average Annual Ethylene Capacity (Millions of Pounds): | | | | | | | | | | |
| O&P-Americas | | 9,590 | | 9,750 | | 9,780 | | 10,070 | | 10,733 |
| O&P-EAI | | 4,829 | | 4,829 | | 4,829 | | 4,829 | | 4,829 |
| EBITDA Excluding LCM per Average Pound of Ethylene Capacity: | | | | | | | | | | |
| O&P–Americas | | 22.3¢ | | 30.4¢ | | 36.5¢ | | 41.6¢ | | 35.6¢ |
| O&P-EAI | | 17.9¢ | | 11.3¢ | | 17.4¢ | | 29.2¢ | | 38.4¢ |



Components of Cash and Liquid Investments

| In Millions of Dollars | Decem 201 | | nber 31, 015 |
|-----------------------------|--------------|-------|-----------------|
| Cash and Cash Equivalents | \$ | 4,222 | \$ 924 |
| Short-Term Investments | | - | 1,064 |
| Repurchase Agreements | | - | 387 |
| Cash and Liquid Investments | \$ | 4,222 | \$ 2,375 |



Reconciliation of Ratio of Long-Term Debt to EBITDA excluding LCM

| | | | | For the | Years F | anded Decen | nber 31, | , | | | Last Twelve Months | | |
|--|----|-------|------|---------|----------------|-------------|----------|-------|------|-------|-----------------------|-----------------|--|
| In Millions of Dollars | | 2011 | 2012 | | 2013 | | 2014 | | 2015 | | | une 30, 2016 | |
| | | | | | | | | 2014 | | 2013 | | | |
| Current Maturities of Long-Term Debt | \$ | 4 | \$ | 1 | \$ | 1 | \$ | 4 | \$ | 4 | \$ | 4 | |
| Long-Term Debt | | 3,944 | | 4,251 | | 5,708 | | 6,695 | | 7,671 | | 8,485 | |
| Total Debt | \$ | 3,948 | \$ | 4,252 | \$ | 5,709 | \$ | 6,699 | \$ | 7,675 | \$ | 8,489 | |
| Divided by: | | | | | | | | | | | | | |
| EBITDA | \$ | 5,469 | \$ | 5,808 | \$ | 6,311 | \$ | 7,050 | \$ | 7,533 | \$ | 6,985 | |
| Lower of Cost or Market (LCM) Inventory Valuation Adjustment | | - | | - | | - | | 760 | | 548 | | 465 | |
| EBITDA excluding LCM | \$ | 5,469 | \$ | 5,808 | \$ | 6,311 | \$ | 7,810 | \$ | 8,081 | \$ | 7,450 | |
| Ratio of Total Debt to EBITDA excluding LCM | | 0.7x | | 0.7x | | 0.9x | | 0.9x | | 0.9x | | 1.1x | |