

Cautionary Statement

The statements in this presentation relating to matters that are not historical facts are forward-looking statements. These forward-looking statements are based upon assumptions of management which are believed to be reasonable at the time made and are subject to significant risks and uncertainties. Actual results could differ materially based on factors including, but not limited to, the business cyclicality of the chemical, polymers and refining industries; the availability, cost and price volatility of raw materials and utilities, particularly the cost of oil, natural gas, and associated natural gas liquids; competitive product and pricing pressures; labor conditions; our ability to attract and retain key personnel; operating interruptions (including leaks, explosions, fires, weather-related incidents, mechanical failure, unscheduled downtime, supplier disruptions, labor shortages, strikes, work stoppages or other labor difficulties, transportation interruptions, spills and releases and other environmental risks); the supply/demand balances for our and our joint ventures' products, and the related effects of industry production capacities and operating rates; our ability to achieve expected cost savings and other synergies; our ability to successfully execute projects and growth strategies; legal and environmental proceedings; tax rulings, consequences or proceedings; technological developments, and our ability to develop new products and process technologies; potential governmental regulatory actions; political unrest and terrorist acts; risks and uncertainties posed by international operations, including foreign currency fluctuations; and our ability to comply with debt covenants and service our debt. Additional factors that could cause results to differ materially from those described in the forwardlooking statements can be found in the "Risk Factors" section of our Form 10-K for the year ended December 31, 2013, 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.

Information Related to Financial Measures

We have included EBITDA in this presentation, which is a non-GAAP measure, as we believe that EBITDA is a measure commonly used by investors. However, 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. See slide # 15 for reconciliations of EBITDA to net income.

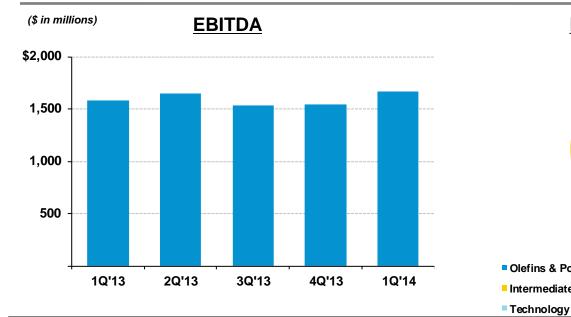
While we also believe that free cash flow (FCF) and book capital are measures commonly used by investors, free cash flow and book capital, as presented herein, may not be comparable to similarly titled measures reported by other companies due to differences in the way the measures are calculated. For purposes of this presentation, free cash flow means net cash provided by operating activities minus capital expenditures and book capital means total debt plus stockholders' equity plus minority interests.

Financial Highlights

(\$ in millions, except per share data)	1Q'14	4Q'13	1Q'13
EBITDA	\$1,668	\$1,543	\$1,585
Income from Continuing Operations	\$943	\$1,177	\$906
Diluted Earnings (\$ / share) from Continuing Operations	\$1.72	\$2.11	\$1.56

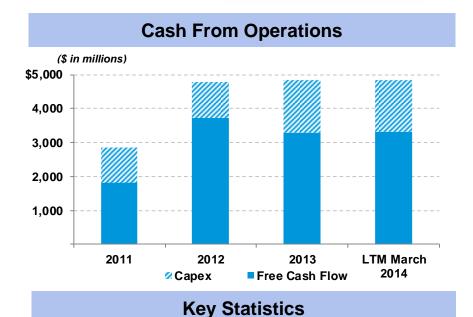


LTM EPS - \$6.93 per share



LTM March 2014 EBITDA Olefins & Polyolefins - Americas Intermediates & Derivatives Refining

Sustained Cash Generation: Share Repurchases & Dividends



Snapshot at March 31, 2014

LTM FCF: \$3.3 billion LTM Capex: \$1.5 billion

Cash⁽¹⁾: \$4.4 billion

Total Debt/LTM EBITDA: 1.1x Total Debt/Book Capital: 37%

Dividends & Share Repurchases



~ 15 million shares repurchased during Q1'2014 and ~ 42 million shares repurchased as of March 31, 2014

¹⁾ Cash balances include cash and short-term securities.

Our Businesses Benefit from Shale Advantage and Differentiated Positions



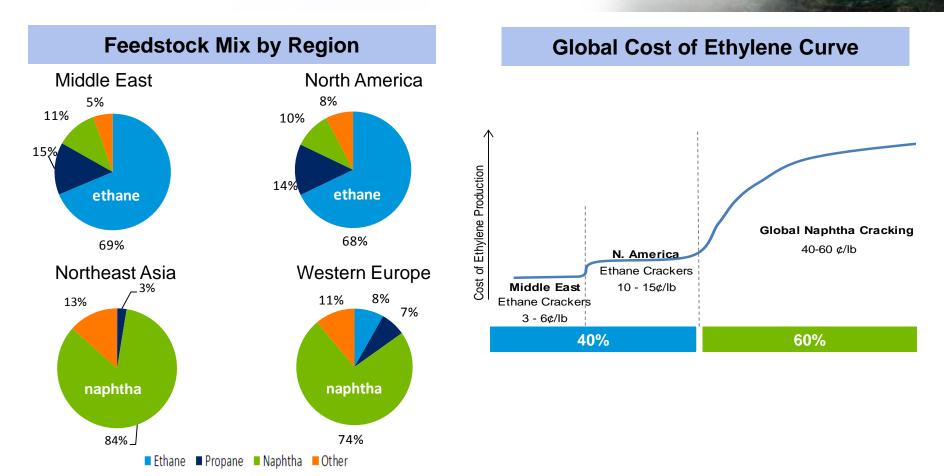
Shale Advantage	U.S. Olefins ChainU.S. EthyleneU.S. polyethylene	2013 EBITDA ⁽¹⁾
	• EO & EG	
Shale Advantage & Differentiated Positions	OxyfuelsC4 chemicalsAcetyls	
Differentiated Positions	 Propylene Oxide and derivatives Polypropylene compounding and Polybutene-1 Technology segment Joint ventures Catalloy 	■ Shale Advantage Shale Advantage + Differentiated Positions
Commodity Products	 European olefins and polyolefins Refined products Styrene U.S. polypropylene 	■ Differentiated Positions ■ Commodity Products

⁽¹⁾ EBITDA presented in this chart excludes segment items allocated to "other". U.S. polyethylene benefits from shale gas advantage and is therefore included in the "Shale advantage" portion of the chart rather than the "commodity products" portion.

Optimizing Our Businesses

<u>Segment</u>	LYB Market Position	Portfolio Role
Olefins & Polyolefins - Americas	NGL advantageCyclical upsideCatalloy, and specialties PE	Invest
Olefins & Polyolefins – EAI	 Commodities – naphtha based, with cyclical upside Differentiated positions in Catalloy, PP compounding, and JVs 	Restructure
Intermediates & Derivatives (I&D)	Proprietary technologiesNatural gas advantage	Invest
Refining	 Large, heavy crude refinery 	Sustain
Technology	Strong technology positionMaintain leadership	Optimize

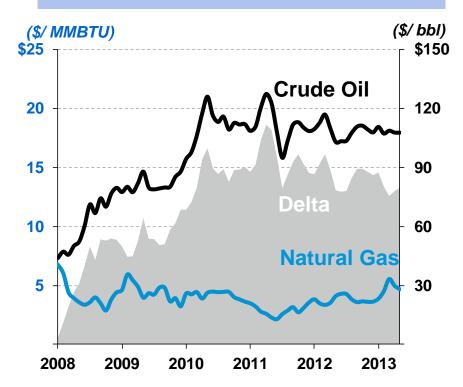
Low Cost Ethane Has Improved North American Competitiveness



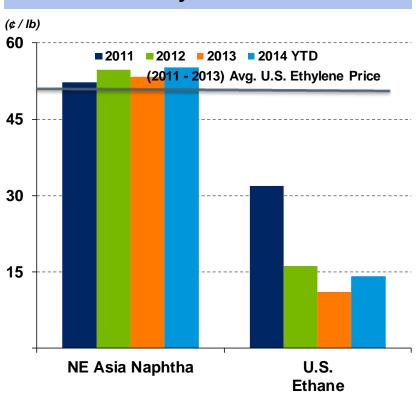
- U.S. cost of ethylene production, at 10-15 ¢/lb, competes with Middle Eastern production
- Europe and Asia still dependent on higher cost naphtha

Global Market – Naphtha Crackers Set The Price

U.S. Crude Oil vs. Natural Gas Price



Cost of Ethylene Production



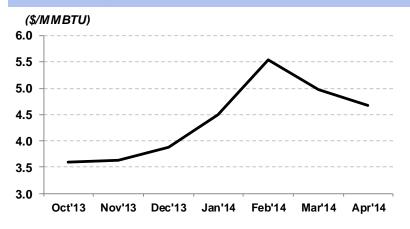
U.S. shale gas revolution is a significant driver of profitability in North American Olefins and Polyolefins and Intermediates and Derivatives business units

Sources: LYB estimates, third party consultants. Crude oil and natural gas data updated through April 2014.

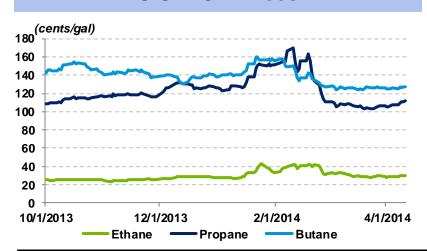
Cold U.S. Weather Created First-Quarter Pressure



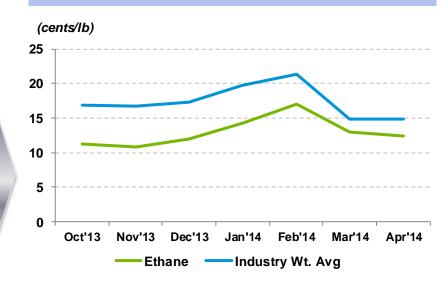
Henry Hub Natural Gas Prices



U.S. NGL Prices



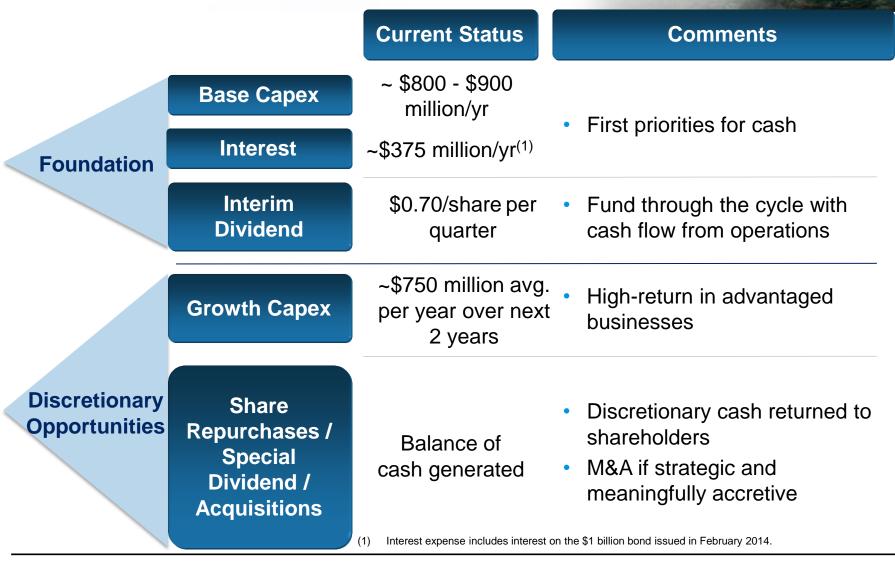
U.S. Cost of Ethylene Production



The beginning of spring has provided relief

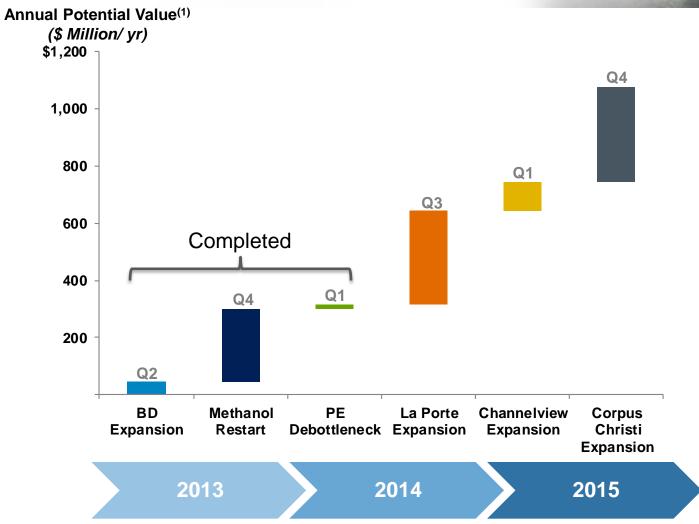
Source: Third party consultants' data.

Cash Deployment Hierarchy



Projects Annual Potential Values & Completion Timelines





¹⁾ Annual potential values are based on FY 2013 industry benchmark margins.

Appendix



2013 – 2014 Reconciliation of Segment Information to Consolidated Financial Information

Reconciliation of Segment Information to Consolidated Financial Information

					201	3				2014	4
(Millions of U.S. dollars)		Q1	C	Q2	Q3	3	Q4	T	otal	Q1	
Sales and other operating revenues:						,					
Olefins & Polyolefins - Americas	\$	3,244	\$	3,251	\$	3,315	\$ 3,279	\$	13,089	\$	3,357
Olefins & Polyolefins - Europe, Asia, International		3,800		3,708		3,594	3,583		14,685		3,778
Intermediates & Derivatives		2,282		2,217		2,452	2,521		9,472		2,429
Refining		2,468		3,077		3,177	2,976	i	11,698		2,756
Technology		134		132		124	142		532		136
Other		(1,259)		(1,282)		(1,510)	(1,363)	(5,414)	((1,321)
Continuing Operations	\$	10,669	\$	11,103	\$	11,152	\$ 11,138	\$	44,062	\$ 1	11,135
Operating income (loss):					<u> </u>		<u> </u>			·	
Olefins & Polyolefins - Americas	\$	821	\$	872	\$	759	\$ 801	\$	3,253	\$	656
Olefins & Polyolefins - Europe, Asia, International		93		189		78	17	•	377		225
Intermediates & Derivatives		323		285		371	321		1,300		316
Refining		(17)		(16)		(37)	92	!	22		86
Technology		50		39		35	33	i	157		60
Other		(3)		(5)		1			(7)		(3)
Continuing Operations	\$	1,267	\$	1,364	\$	1,207	\$ 1,264	\$	5,102	\$	1,340
Depreciation and amortization:	-		-		-		_	-		-	
Olefins & Polyolefins - Americas	\$	75	\$	69	\$	73	\$ 76	\$	293	\$	73
Olefins & Polyolefins - Europe, Asia, International		77		76		78	56	i	287		70
Intermediates & Derivatives		48		50		50	56	i	204		55
Refining		36		37		45	42		160		42
Technology		17		20		16	22	!	75		16
Other				2					2		
Continuing Operations	\$	253	\$	254	\$	262	\$ 252	\$	1,021	\$	256
EBITDA: (a)	-		-		=		-	-		-	
Olefins & Polyolefins - Americas	\$	898	\$	951	\$	841	\$ 883	\$	3,573	\$	736
Olefins & Polyolefins - Europe, Asia, International		225		295		204	115		839		356
Intermediates & Derivatives		373		338		427	354		1,492		375
Refining		20		20		8	134		182		129
Technology		66		59		52	55		232		76
Other		3		(11)		(1)			(7)		(4)
Continuing Operations	\$	1,585	\$	1,652	\$	1,531	\$ 1,543	\$	6,311	\$	1,668
Capital, turnarounds and IT deferred spending:							<u>-</u>				
Olefins & Polyolefins - Americas	\$	122	\$	122	\$	218	\$ 183	\$	645	\$	231
Olefins & Polyolefins - Europe, Asia, International		63		46		44	76	i	229		33
Intermediates & Derivatives		106		141		119	77	•	443		45
Refining		93		67		36	13		209		32
Technology		7		6		7	10	1	30		2
Other				5		(1)	1		5		
Total		391		387		423	360		1,561		343
Deferred charges included above											
Continuing Operations	\$	391	\$	387	\$	423	\$ 360	\$	1,561	\$	343
Continuing Operations	\$	391	\$	387	\$	423	\$ 360	\$	1,561	\$	

⁽a) See slide # 15 for EBITDA calculation.

2013 – 2014 Reconciliation of EBITDA to Income from Continuing Operations



EBITDA Calculation

	2013			2014						
(Millions of U.S. dollars)		Q1		Q2	Q3		Q4	Total		Q1
Net income attributable to the Company shareholders	\$	901	\$	929	\$	353 \$	1,174	\$ 3,857	\$	945
Net income (loss) attributable to non-controlling interests		(1)		(2)		(2)	1	(4)		(1)
(Income) loss from discontinued operations, net of tax		6		(4)		3	2	7		(1)
Income from continuing operations		906		923	:	354	1,177	3,860		943
Provision for income taxes		357		410	;	39	30	1,136		383
Depreciation and amortization		253		254	;	262	252	1,021		256
Interest expense, net		69		65		76	84	294		86
EBITDA	\$	1,585	\$	1,652	<u>\$ 1,</u>	31 \$	1,543	\$ 6,311	\$	1,668

2011 – 2012 Reconciliation of Segment Information to Consolidated Financial Information

Reconciliation of Segment Information to Consolidated Financial Information

(Millions of U.S. dollars)		2011		2012
Sales and other operating revenues:				
Olefins & Polyolefins - Americas	\$	14,880	\$	12,934
Olefins & Polyolefins - Europe, Asia, International		15,591		14,521
Intermediates & Derivatives		9,500		9,658
Refining		13,706		13,291
Technology		506		498
Other Continuing Operations	\$	(6,000) 48,183	\$	(5,550) 45,352
Operating income (loss):	<u> </u>	40, 103	Ψ	40,002
Olefins & Polyolefins - Americas	\$	1,855	\$	2,650
Olefins & Polyolefins - Europe, Asia, International	,	435		127
Intermediates & Derivatives		1,156		1,430
Refining		809		334
Technology		107		122
Other		(25)		13
Continuing Operations	\$	4,337	\$	4,676
Depreciation and amortization:				
Olefins & Polyolefins - Americas	\$	246	\$	281
Olefins & Polyolefins - Europe, Asia, International		262		285
Intermediates & Derivatives		186		194
Refining		153		148
Technology		84		73
Other				2
Continuing Operations	\$	931	\$	983
EBITDA: (a)				
Olefins & Polyolefins - Americas	\$	2,137	\$	2,968
Olefins & Polyolefins - Europe, Asia, International		865		548
Intermediates & Derivatives		1,410		1,621
Refining		977		481
Technology		191		197
Other	Φ.	(111)	•	(7)
Continuing Operations	\$	5,469	\$	5,808
Capital, turnarounds and IT deferred spending:	•	405	•	400
Olefins & Polyolefins - Americas	\$	425	\$	468
Olefins & Polyolefins - Europe, Asia, International		235		254
Intermediates & Derivatives		101		159
Refining		224 26		136 43
Technology Other		26 17		43 5
Total		1,028		1,065
Deferred charges included above		(7)		(5)
•	•			
Continuing Operations	\$	1,021	\$	1,060

⁽a) See slide # 17 for EBITDA calculation.

2011 – 2012 Reconciliation of EBITDA to Income from Continuing operations

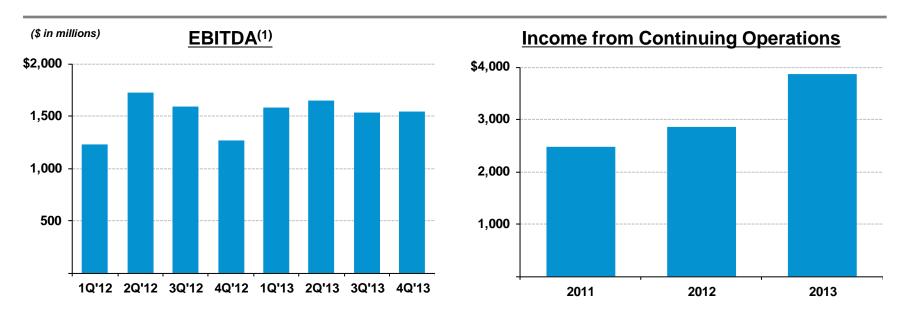
EBITDA Calculation

(Millions of U.S. dollars)	2011	2012		
Net income attributable to the Company shareholders	\$ 2,147	\$ 2,848		
Net loss attributable to non-controlling interests	(7)	(14)		
(Income) loss from discontinued operations, net of tax	332	24		
Income from continuing operations	2,472	2,858		
Provision for income taxes	1,059	1,327		
Depreciation and amortization	931	983		
Interest expense, net	1,007	640		
EBITDA	\$ 5,469	\$ 5,808		

Highlights

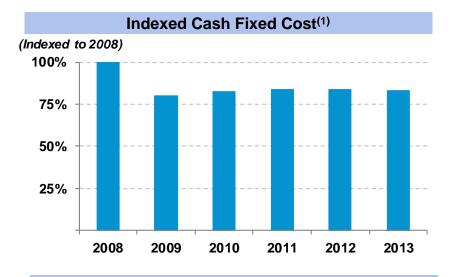
(\$ in millions, except per share data)	FY 2013	FY 2012	FY 2011	
EBITDA ⁽¹⁾	\$6,311	\$5,808	\$5,469	
Income from Continuing Operations	\$3,860	\$2,858	\$2,472	
Diluted Earnings (\$ / share) from Continuing Operations	\$6.76	\$4.96	\$4.32	

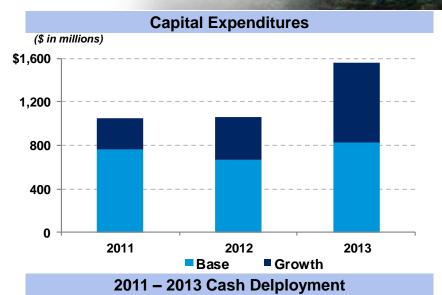
FY 2013 EPS Growth ~ 36% vs. 2012 and 56% vs. 2011

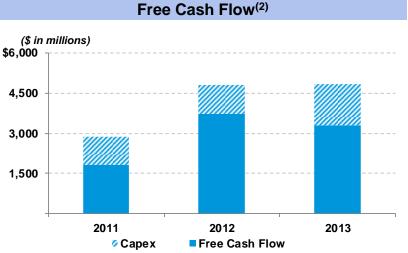


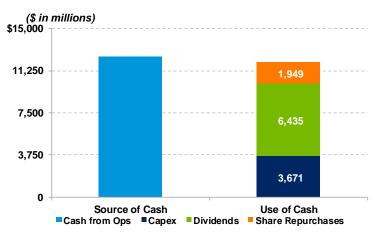
⁽¹⁾ EBITDA includes a pre-tax lower of cost or market inventory valuation adjustment of \$71 million in the third quarter 2012 which reversed a charge in the second quarter of 2012, due to a recovery in market prices.

Key Financial Statistics



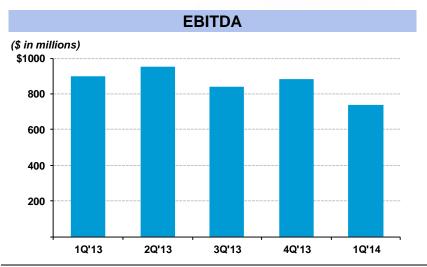


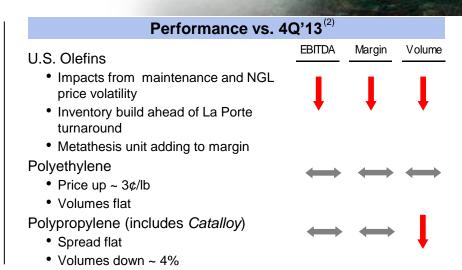


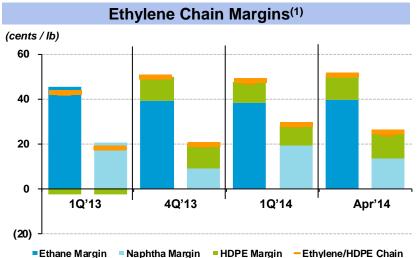


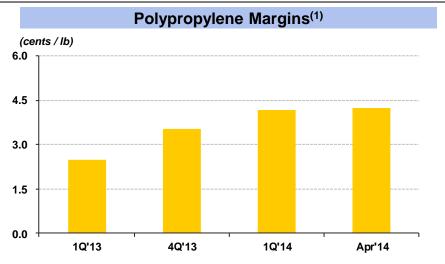
¹⁾ Cash fixed costs include costs related to compensation, travel, insurance, third party services, maintenance, marketing, selling, and administration; 2) Free Cash Flow = net cash provided by operating activities – capex

Olefins & Polyolefins – Americas Highlights and Business Drivers – 1Q'14



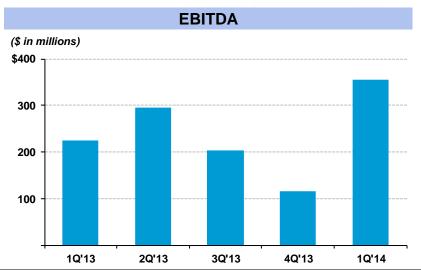


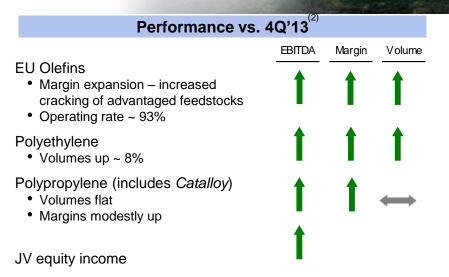


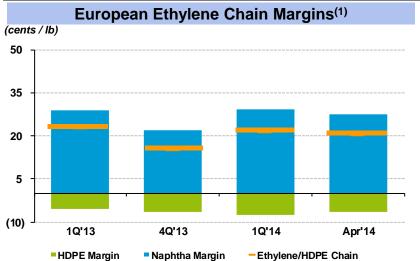


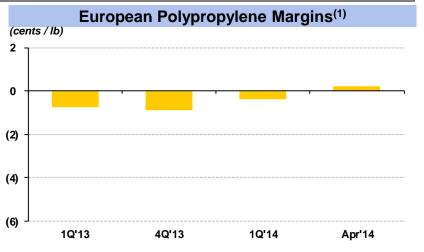
¹⁾ Source: Quarterly average industry data from third party consultants; 2) The direction of the arrows reflects our underlying business metrics.

Olefins & Polyolefins – Europe, Asia, International Highlights and Business Drivers – 1Q'14



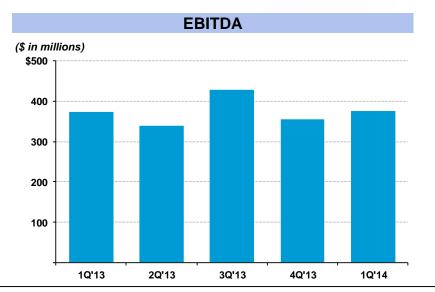


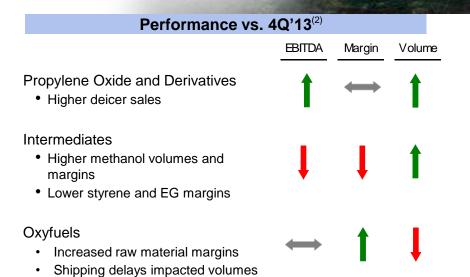


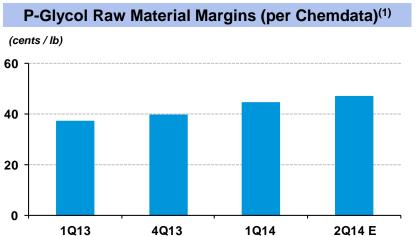


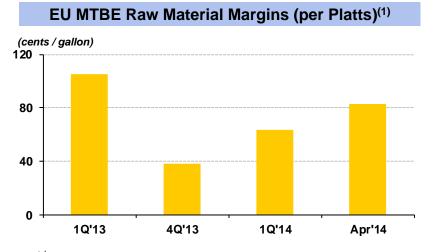
1) Source: Quarterly average data from third party consultants; 2) The direction of the arrows reflects our underlying business metrics.

Intermediates & Derivatives Highlights and Business Drivers – 1Q'14









1) Data represents quarterly average; 2) The direction of the arrows reflects our underlying business metrics.

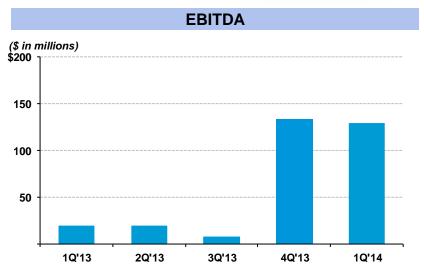
Refining Highlights and Business Drivers – 1Q'14

Houston Refinery

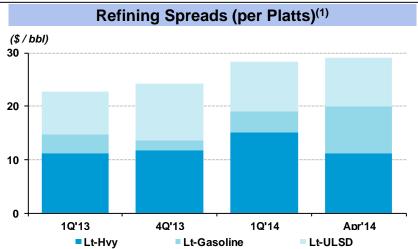
Coker outage

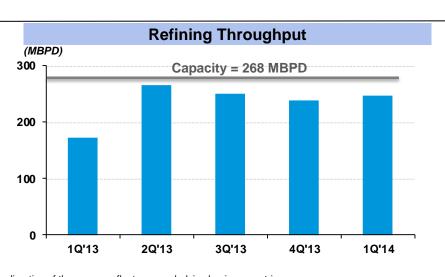
RINs

· Increased costs of natural gas and



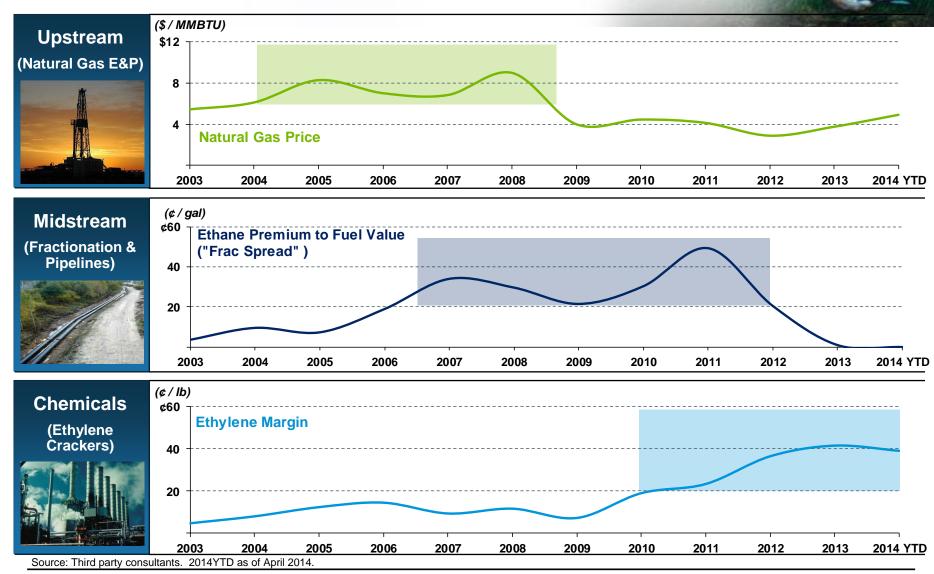
Performance vs. 4Q'13⁽²⁾ Margin Volume • Crude throughput: 247 MBPD • Maya 2-1-1: \$28.26 per bbl





1) Light Louisiana Sweet (LLS) is the referenced light crude. Data represents quarterly average; 2) The direction of the arrows reflects our underlying business metrics.

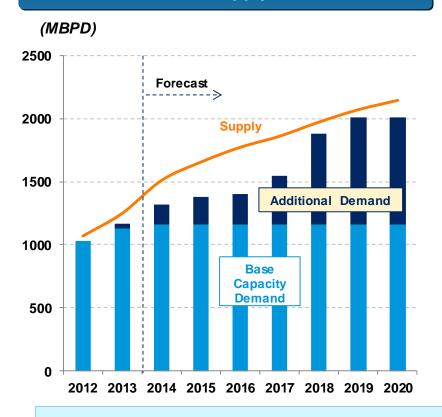
Evolution of Shale Gas Value Chain

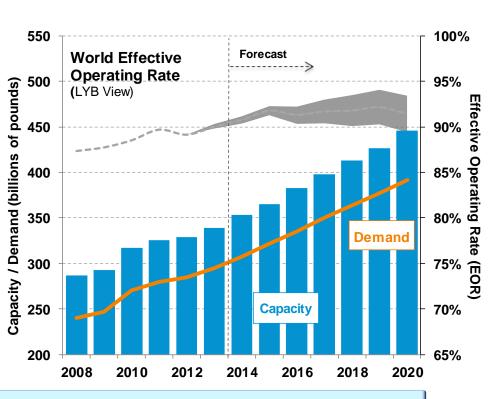


Favorable Supply/Demand Balances

U.S. Ethane Supply/Demand

Ethylene Global Operating Rates





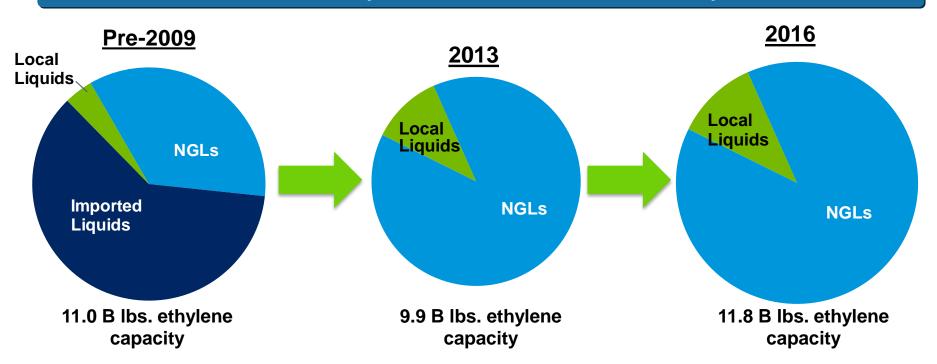
- Ethane production is expected to continue exceeding demand
- N. America effective ethylene industry operating rate ~ 95% in 2013

Source: Third party consultants and LYB estimates.

O&P – Americas: Feedstock Flexibility Boosts Profitability



LYB U.S. Ethylene Cracker Feedstock Flexibility



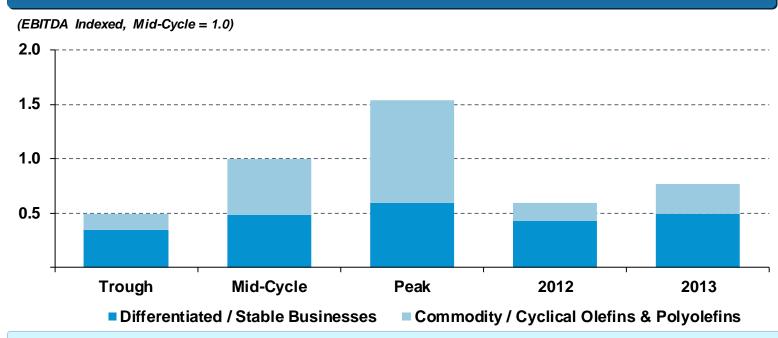
~ 90% of ethylene production in 2013 from NGLs, and almost 100% from U.S. sourced feedstocks

Source: LYB.

Note: Percentages based on volume of feedstock consumed. Future feedstock mix is LYB estimate.

O&P – EAI: Driven by Our Differentiated Position

Indexed O&P EAI EBITDA Scenarios (1)



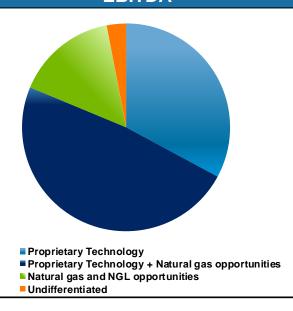
- O&P EAI portfolio is more than European olefins and commodity polyolefins
 - Global polypropylene compounds
 - Middle East and Asian JVs
 - Premium grades of polyolefins (Catalloy, Polybutene-1)
- Differentiated products typically can represent \$350 \$550 million per year over the cycle

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

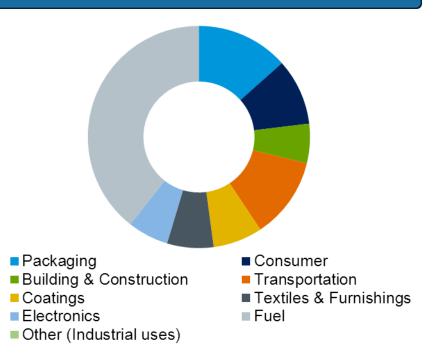
I&D: Businesses Key Advantages

	РО	C4's / Oxyfuels	Acetyls	EO & Derivatives
Proprietary Technology	✓	✓	✓	
Advantaged NGL / Crude Oil Price Ratio		√	✓	✓

2011 – 2013 Average Intermediates & Derivatives EBITDA⁽²⁾



Sales by End Use⁽¹⁾



- (1) Estimated based on LYB 2012 Intermediates and Derivatives third party sales, and third party industry estimates of products end uses.
- 2) EBITDA, as presented in this chart, excludes intrasegment eliminations.

I&D: Profitability Drivers for Propylene Oxide

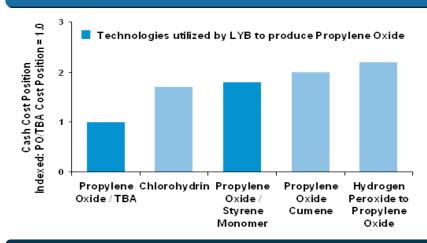
Key Drivers

- Propylene oxide demand growth
 - 5% per year globally
 - 9% per year in Asia
- High barrier to entry

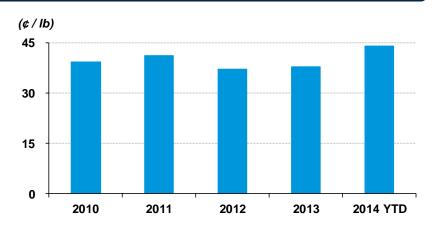
Sources of LYB Competitive Advantage

- Large global system
- Proprietary low cost technology

Economics of PO Technologies



Propylene Glycol Raw Material Margin

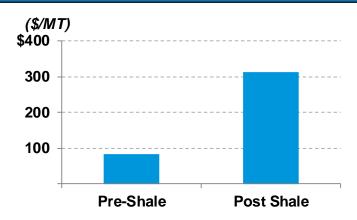


Source: Economics of PO technologies are based on third party consultants and 2012 LYB data and estimates; 2014 YTD Propylene Glycol raw material margin as of April 2014.

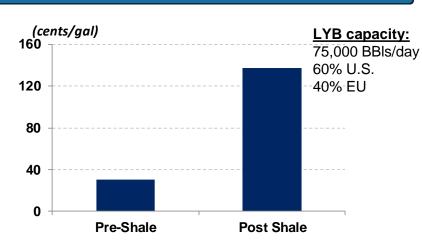
I&D Benefits from Shale Gas Development - Methanol & Oxyfuels



Methanol Cash Margins



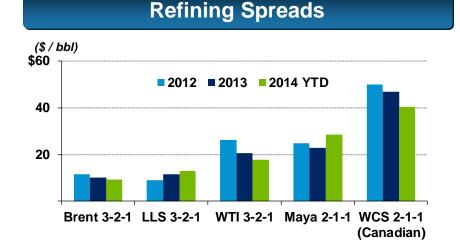
MTBE Spread



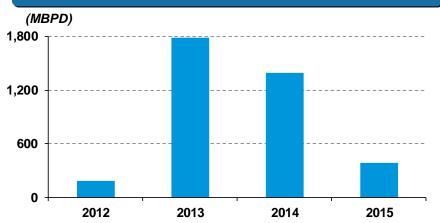


Sources: Third party consultants. . Pre-shale refers to year 2000 while post-shale refers to year 2012

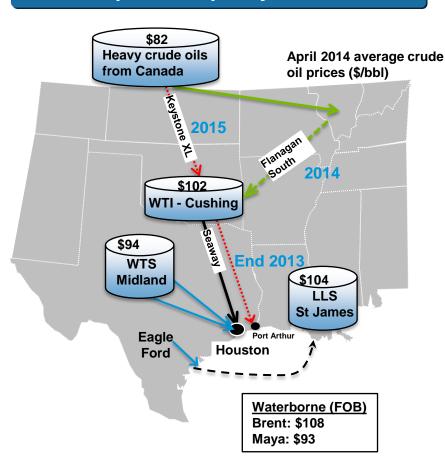
Refining: Profitability Has Been Driven by Geography and Complexity



Pipeline Capacity Increase



New Pipeline Capacity to Houston



Source: Bloomberg and Wall Street research.

Notes: Maya 2-1-1 based on LLS pricing. WCS refers to west Canadian select vs. Gulf Coast products. 2014 YTD as of April 2014.

Projects Completed and Active

Project	Cost (\$Million)	Start-up	Potential Pre-Tax Earnings (\$ Million/year)
Increase Ethane Capability and Midwest Debottlenecks	~\$50	2012	\$150 - \$180
EU Butadiene Expansion	~\$100	Mid 2013	\$40 - \$50
Methanol Restart	~\$180	Late 2013	\$250 - \$260
PE Debottleneck	~\$20	Early 2014	\$10 - \$20
La Porte Expansion	~\$510	Mid 2014	\$300 - \$350
Channelview Expansion	~\$200	Early 2015	\$90 - \$110
Corpus Christi Expansion	~\$600	Late 2015	\$300 - \$350
PP Compounding Growth	~ \$40	2013 - 2016	\$70 - \$90
New PE line	~ \$400	Mid 2017	\$50 - \$100
PO/TBA Joint Venture	MOU	2018	\$70 - \$90
Total	~ \$2,100		~ \$1,300 - \$1,600

[■] Complete ■ In Construction/Permit Obtained ■ In Development

⁽¹⁾ Costs are based on recent company estimates and potential pre-tax values are based on FY 2013 industry benchmark margins.