

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; legal and environmental proceedings; tax rulings, consequences or proceedings; technological developments, and our ability to develop new products and process technologies; potential governmental regulatory actions; political unrest and terrorist acts; risks and uncertainties posed by international operations, including foreign currency fluctuations; and our ability to comply with debt covenants and service our debt. Additional factors that could cause results to differ materially from those described in the forward-looking statements can be found in the "Risk Factors" section of our Form 10-K for the year ended December 31, 2012, 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. For purposes of this presentation, EBITDA means 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 # 26 for reconciliations of EBITDA to net income.

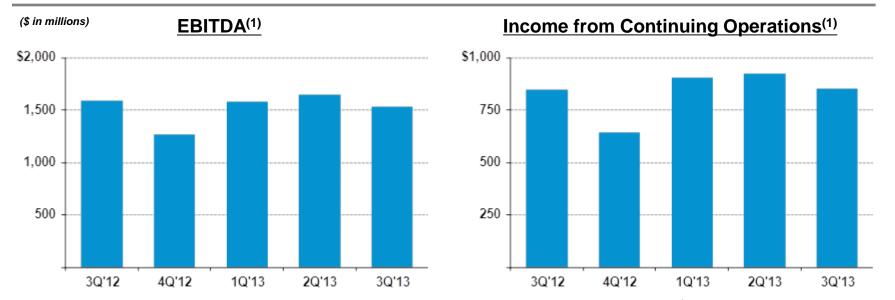
While we also believe that free cash flow (FCF) is a measure commonly used by investors, free cash flow, as presented herein, may not be comparable to a similarly titled measure reported by other companies due to differences in the way the measure is calculated. For purposes of this presentation, free cash flow means net cash provided by operating activities minus capital expenditures.

LYB Highlights

(\$ in millions, except per share data)	LTM Sept 2013	FY 2012	FY 2011
EBITDA ⁽¹⁾	\$6,033	\$5,808	\$5,469
Income from Continuing Operations ⁽¹⁾	\$3,328	\$2,858	\$2,472
Diluted Earnings (\$ / share) from Continuing Operations	\$5.80	\$4.96	\$4.32

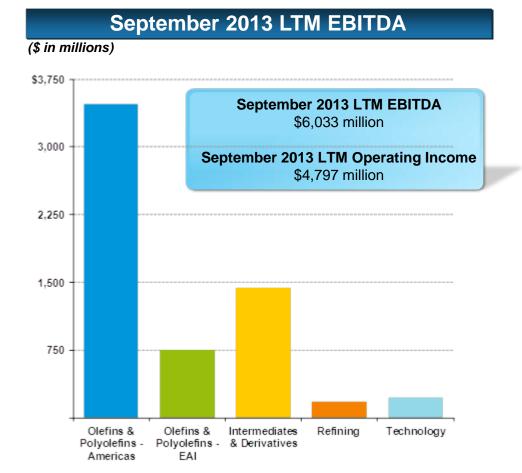
LTM September 2013 EPS Growth

vs. 2012: 17% vs. 2011: 34%



(1) EBITDA and Income from continuing operations include a pre-tax lower of cost or market inventory valuation adjustment of \$71 million in the third quarter which reversed a charge in the second quarter of 2012, due to a recovery in market price.

World-Class Scale, Leading Market Positions



Products

Global Position

#2

Cnemicais	
Ethylene	#5
Propylene	#5

Propylene Oxide

Polymers
Polyolefins (PE + PP) #1
Polypropylene #1

Polyethylene #4
Polypropylene Compounds #1

Fuels

Oxyfuels #1

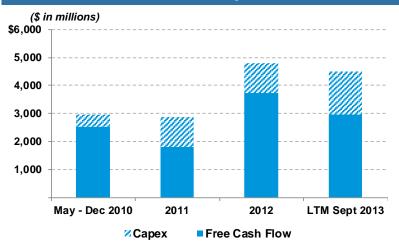
Technology and R&D

Polyolefins Licensing #2

Note: Positions based on LyondellBasell wholly owned capacity and pro rata share of JV capacities as of December 31, 2012.

Sustained Cash Generation: Share Repurchases & Dividends

Cash From Operations



Key Statistics

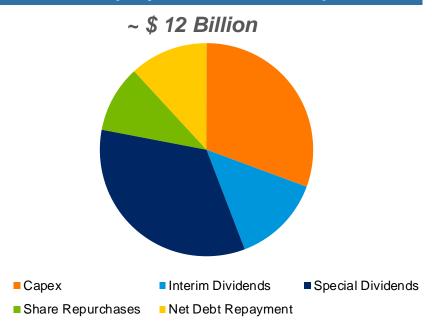
Snapshot at September 30, 2013

LTM FCF: \$3.0 billion LTM Capex: \$1.5 billion

Cash: \$4.4 billion

Total Debt/LTM EBITDA: 1.0x Total Debt/Book Capital: 33%

Cash Deployment Since Inception(1)



Robust Free Cash Flow generation allowed for debt repayment, large dividends (\$10.15/share⁽²⁾ from 2011 through Third Quarter 2013), and share repurchases (~ 19 million shares since May'2013 approval through Sept. 30, 2013)

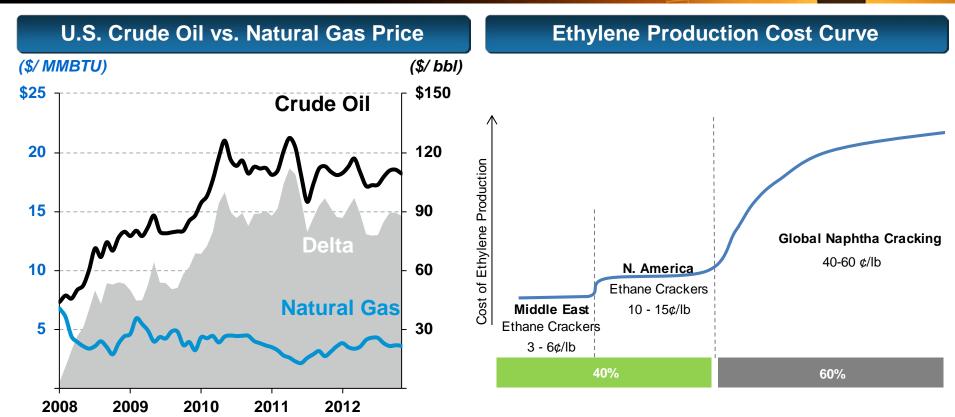
⁽¹⁾ Cash deployment since inception through September 30, 2013 is presented in this graph.

⁽²⁾ Does not include the \$0.50 per share interim dividend declared in the third quarter and paid on October 7th, 2013.

Optimizing Our Businesses

<u>Segment</u>	LYB Market Position	Portfolio Role
Olefins & Polyolefins – Americas	NGL advantageCyclical upside	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

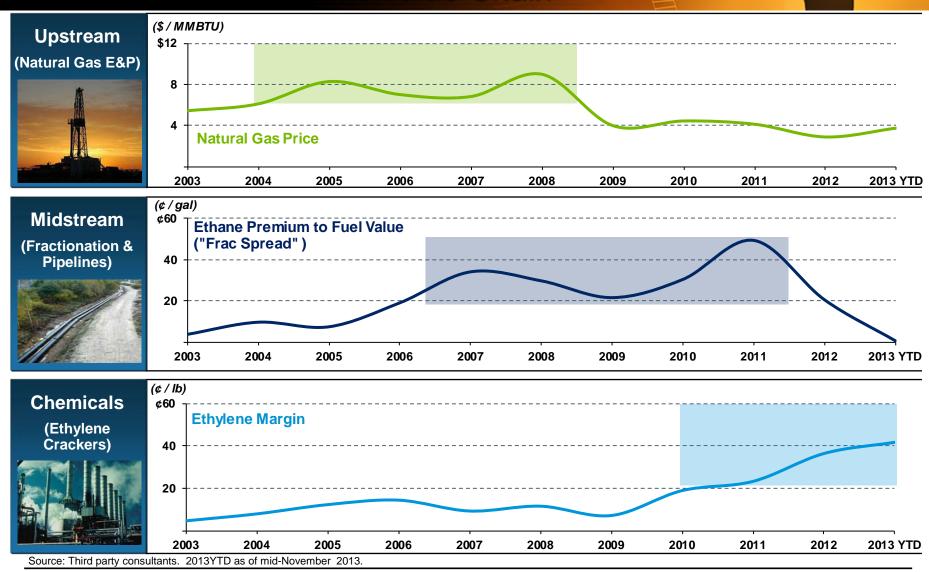
Macroeconomic Background



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

Sources: LYB estimates, third party consultants. Crude oil and natural gas data updated through mid-November 2013.

Evolution of Shale Gas Value Chain

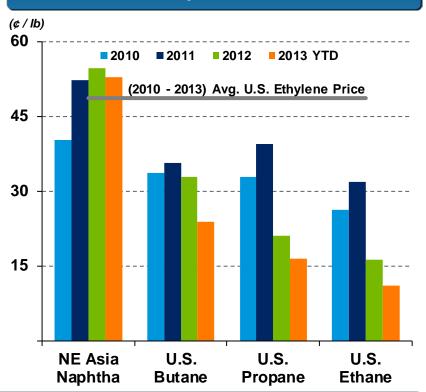


O&P – Americas: Fundamentals of Natural Gash NGLs Have Defined the Environment





Cost of Ethylene Production



U.S. NGL advantage has grown steadily

Jan-13

Propane

Cost of ethylene production from naphtha has been high but stable

Jul-13

 LYB has increased NGL cracking capability from ~70% in 2010 to ~ 88% in the first nine months of 2013

Source: Third party consultants. 2013 YTD as of mid-November 2013.

Jul-12

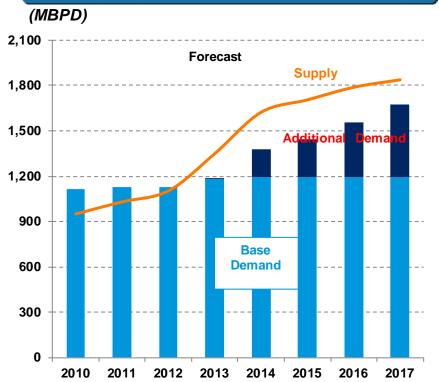
Ethane

Brent

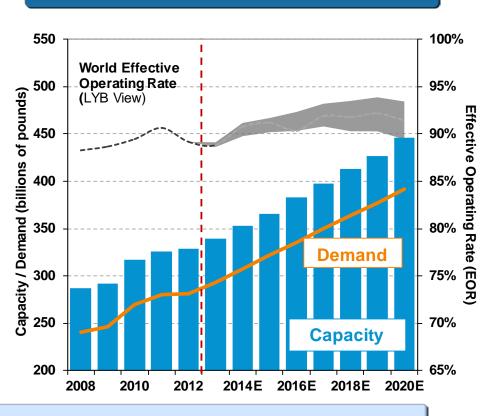
Jan-12

Favorable Supply/Demand Balances

U.S. Ethane Supply/Demand



Ethylene Global Operating Rates

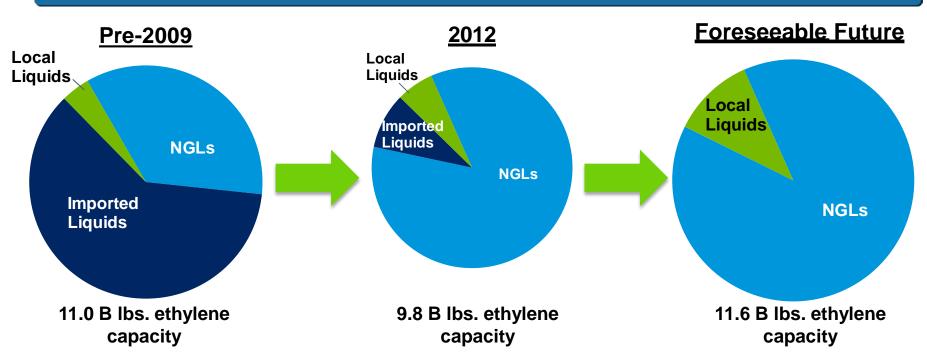


- N. America effective ethylene industry operating rate ~ 95% in 2013 YTD
- Ethane production is expected to continue exceeding demand

Source: Third party consultants and LYB estimates.

O&P – Americas: Feedstock Flexibility Boosts Profitability

LYB U.S. Ethylene Cracker Feedstock Flexibility



~ 88% of ethylene production in 2013 Q3 to date from NGLs

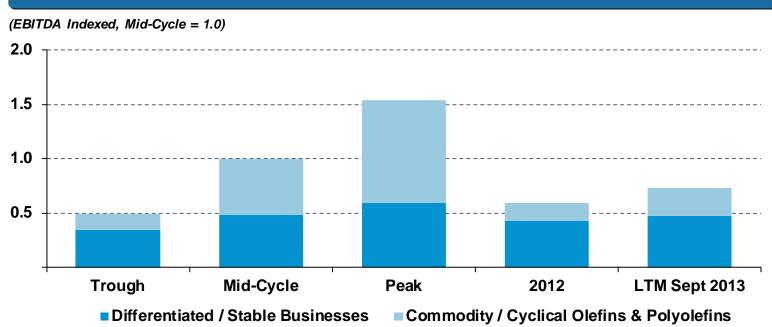
Source: LYB.

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

O&P – EAI: Our Recent Profits Were Primarily Generated from 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.

O&P – EAI: Significant Progress Through Restructuring and Improved Operations



Focus business management processes

Segment markets and customers

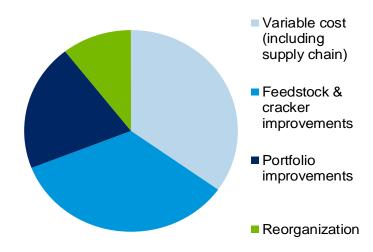
Previously announced restructuring

Simplify supply chain processes

Improve feedstock purchasing

Additional actions taken

Estimated Efficiency Gains Through December 2012



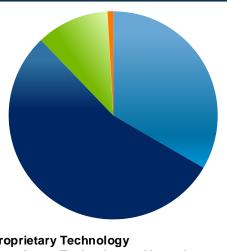
Recent actions:

- Initiated closure of 100KT per year HDPE unit in Germany
- Increase ethylene from advantaged feedstocks from mid 20% in 2012 to mid 40% in Q3'2013
- Butadiene expansion

I&D: Businesses Key Advantages

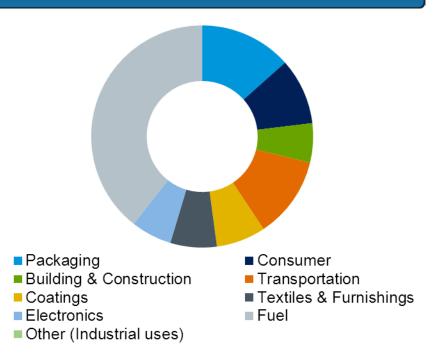
	РО	C4's / Oxyfuels	Acetyls	EO & Derivatives
Proprietary Technology	✓	✓	✓	
Advantaged NGL / Crude Oil Price Ratio		√	✓	✓

2012 Intermediates & Derivatives EBITDA



- Proprietary Technology
- Proprietary Technology + Natural gas opportunities
- Natural gas and NGL opportunities
- Undifferentiated

2012 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.

I&D: Profitability Drivers for Propylene Oxide

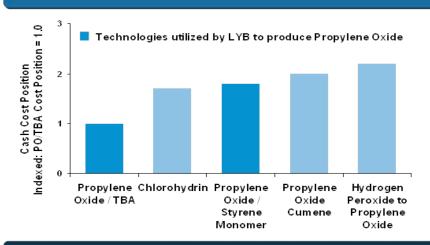
Key Drivers

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

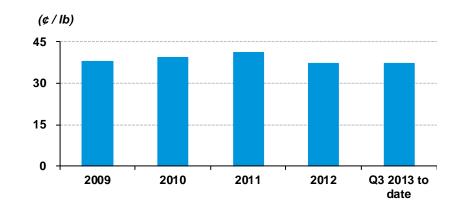
Sources of LYB Competitive Advantage

- Large global system
- Proprietary low cost technology

Economics of PO Technologies



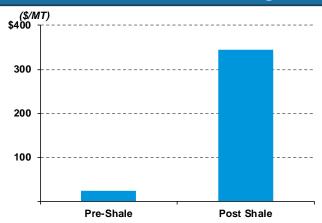
Propylene Glycol Raw Material Margin



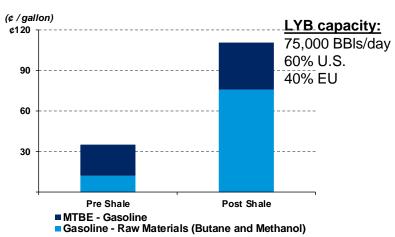
Source: Third party consultants and LYB 2012 data and estimates.

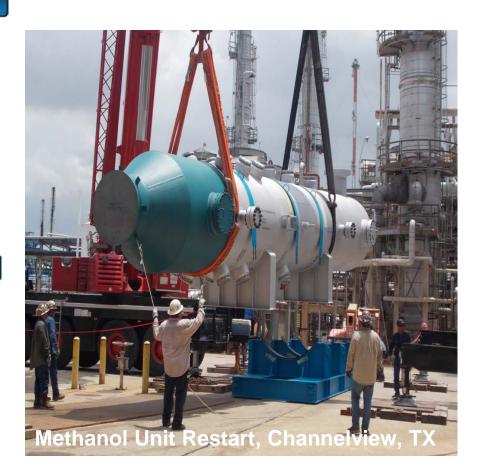
I&D Benefits from Shale Gas Development – Methanol & Oxyfuels

Methanol Cash Margins



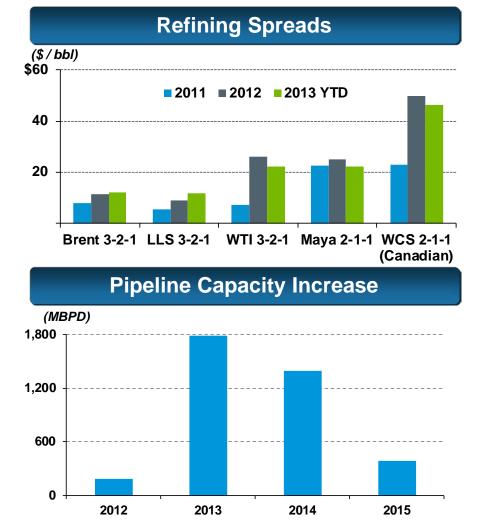
MTBE Spread Factors



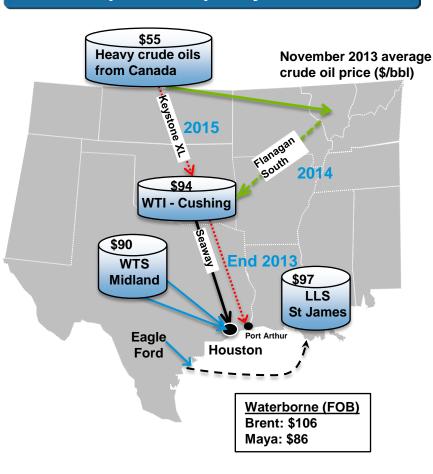


Sources: Third party consultants.

Refining: Profitability Has Been Driven by Geography and Complexity



New Pipeline Capacity to Houston



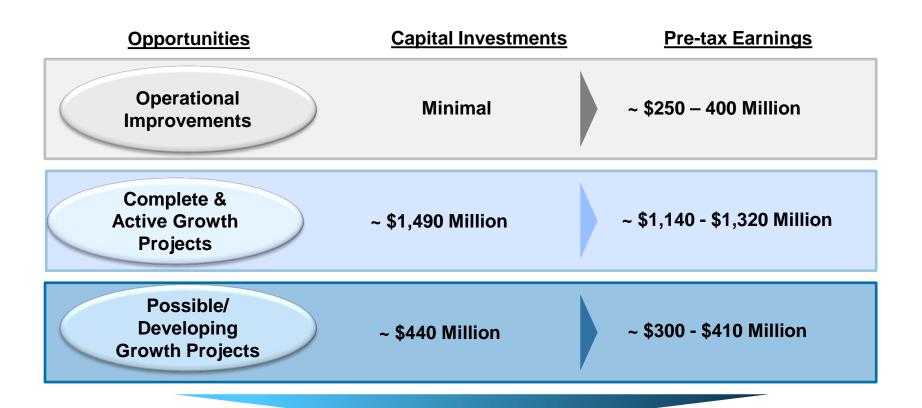
Source: Bloomberg and Wall Street research.

Notes: Maya 2-1-1 based on LLS pricing. WCS refers to west Canadian select vs. Gulf Coast products. 2013 YTD as of mid-November 2013.

Cash Deployment Hierarchy

Current Status Comments \$700 - \$800 **Base Capex** million/yr First priorities for cash Interest ~\$330 million/yr **Foundation** \$0.60/share⁽¹⁾ Interim Fund through the cycle with Dividend cash flow from operations per quarter ~\$750 million High-return in advantaged **Growth Capex** per year over businesses next 2 years **Discretionary Share** Discretionary cash returned to **Opportunities** Repurchases / shareholders Balance of **Special** cash generated M&A if strategic and Dividend / meaningfully accretive **Acquisitions** (1) The supervisory board recently authorized a 20 percent increase in the interim dividend from \$0.50 per share to \$0.60 per share on Nov. 13, 2013.

Growth and Operational Improvement Programs



At September 2013 LTM conditions, our growth and improvement programs are expected to generate an additional \$1.7 – 2.1 billion pre-tax earnings per year by 2017

⁽¹⁾ Costs are based on company estimates and earnings values are based on LTM September 2013 industry benchmark margins.

Projects Completed and Active

Project	Cost (\$Million)	Start-up	Potential Pre-Tax Earnings (\$ Million/year)
Increase Ethane Capability	~\$25	2012	\$120 - \$140
Midwest Debottlenecks	~\$25	2012	\$30 - \$40
EU Butadiene Expansion	~\$100	Mid 2013	\$40 - \$50
Methanol Restart	~\$170	Late 2013	\$250 - \$260
PE Debottleneck	~\$20	Early 2014	\$10 - \$20
La Porte Expansion	~\$420	Mid 2014	\$300 - \$350
Channelview Expansion	~\$200	Early 2015	\$90 - \$110
Corpus Christi Expansion	~\$530	Late 2015	\$300 - \$350
Total	~ \$1,490		~ \$1,140 - \$1,320

In Construction

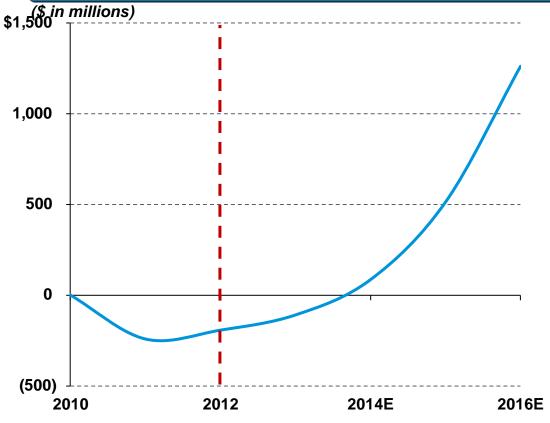
Permit Pending

Complete

⁽¹⁾ Costs are based on company estimates and values are based on LTM September 2013 industry benchmark margins.

Importance of Capital Project Selection





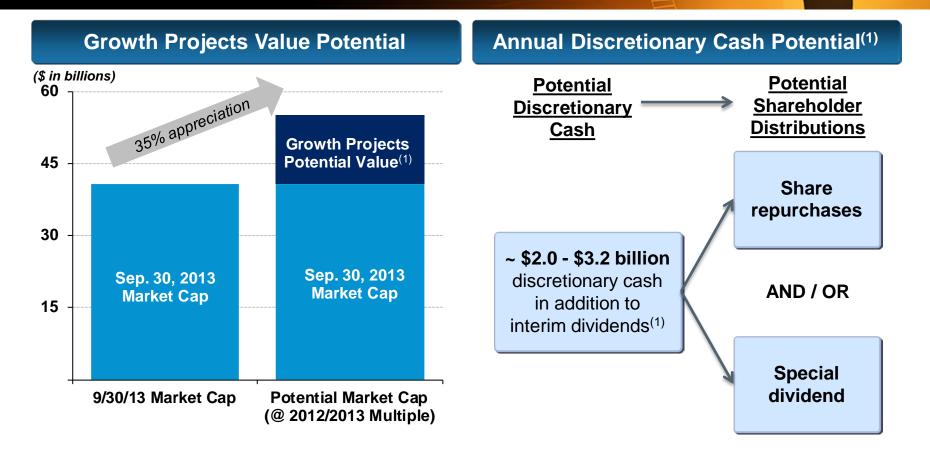
Fast Execution & High Returns

- Announced projects expected to be on line by 2016
- \$1.9 billion of announced growth capital expenditures from 2013 to 2016
- Over \$1.5 billion per year of additional EBITDA at LTM Sept 2013 margins by 2017

Capital project portfolio selected for optimum use of cash to maximize returns

(1) EBITDA estimates assume LTM September 2013 benchmark margins for future periods. Cash flow defined as EBITDA less depreciation, cash taxes and capital expenditures.

Value from Both Growth and Cash Distributions



Significant potential shareholder return from both growth investments and discretionary cash distributions

⁽¹⁾ Based on: Sep. 30, 2013 market capitalization, growth projects potential values at constant LTM September 2013 industry benchmark margins, the increase in 2013 interim dividends and interest on new debt issuance.



Reconciliation of Segment Information to Consolidated Financial Information



Reconciliation of Segment Information to Consolidated Financial Information

					2012							20	13			
(Millions of U.S. dollars)		Q1		Q2	Q3		Q4		Total	 Q1		Q2		Q3		YTD
Sales and other operating revenues:																
Olefins & Polyolefins - Americas	\$	3,349	\$	3,283	\$ 3,217	\$	3,085	\$	12,934	\$ 3,244	\$	3,251	\$	3,315	\$	9,810
Olefins & Polyolefins - Europe, Asia, International		3,898		3,575	3,448		3,600		14,521	3,800		3,708		3,594		11,102
Intermediates & Derivatives		2,485		2,285	2,637		2,251		9,658	2,282		2,217		2,452		6,951
Refining		3,203		3,496	3,272		3,320		13,291	2,468		3,077		3,177		8,722
Technology		119		115	124		140		498	134		132		124		390
Other		(1,320)		(1,506)	 (1,425)		(1,299)		(5,550)	 (1,259)		(1,282)		(1,510)		(4,051)
Continuing Operations	\$	11,734	\$	11,248	\$ 11,273	\$	11,097	\$	45,352	\$ 10,669	\$	11,103	\$	11,152	\$	32,924
Operating income (loss):				<u>.</u>												
Olefins & Polyolefins - Americas	\$	519	\$	700	\$ 738	\$	693	\$	2,650	\$ 821	\$	872	\$	759	\$	2,452
Olefins & Polyolefins - Europe, Asia, International		3		203	15		(94)		127	93		189		78		360
Intermediates & Derivatives		370		390	424		246		1,430	323		285		371		979
Refining		10		124	114		86		334	(17)		(16)		(37)		(70)
Technology		38		30	31		23		122	50		39		35		124
Other				2	 6		5		13	 (3)		(5)		1		(7)
Continuing Operations	\$	940	\$	1,449	\$ 1,328	\$	959	\$	4,676	\$ 1,267	\$	1,364	\$	1,207	\$	3,838
Depreciation and amortization:																
Olefins & Polyolefins - Americas	\$	65	\$	71	\$ 69	\$	76	\$	281	\$ 75	\$	69	\$	73	\$	217
Olefins & Polyolefins - Europe, Asia, International		69		69	63		84		285	77		76		78		231
Intermediates & Derivatives		47		48	49		50		194	48		50		50		148
Refining		38		37	36		37		148	36		37		45		118
Technology		18		19	18		18		73	17		20		16		53
Other					 1		1		2			2				2
Continuing Operations	\$	237	\$	244	\$ 236	\$	266	\$	983	\$ 253	\$	254	\$	262	\$	769
EBITDA: (a)																
Olefins & Polyolefins - Americas	\$	595	\$	781	\$ 814	\$	778	\$	2,968	\$ 898	\$	951	\$	841	\$	2,690
Olefins & Polyolefins - Europe, Asia, International		115		305	102		26		548	225		295		204		724
Intermediates & Derivatives		417		432	475		297		1,621	373		338		427		1,138
Refining		48		160	150		123		481	20		20		8		48
Technology		56		50	49		42		197	66		59		52		177
Other		(4)		(1)	 (1)		(1)		(7)	 3		(11)		(1)		(9)
Continuing Operations	\$	1,227	\$	1,727	\$ 1,589	\$	1,265	\$	5,808	\$ 1,585	\$	1,652	\$	1,531	\$	4,768
Capital, turnarounds and IT deferred spending:	-		_													
Olefins & Polyolefins - Americas	\$	102	\$	135	\$ 126	\$	105	\$	468	\$ 122	\$	122	\$	218	\$	462
Olefins & Polyolefins - Europe, Asia, International		60		39	60		95		254	63		46		44		153
Intermediates & Derivatives		18		24	44		73		159	106		141		119		366
Refining		38		27	24		47		136	93		67		36		196
Technology		9		8	12		14		43	7		6		7		20
Other		2		3	 1		(1)		5	 		5		(1)		4
Total		229		236	 267		333		1,065	 391		387		423		1,201
Deferred charges included above	_	(1)		(3)	 (1)	_			(5)	 						
Continuing Operations	\$	228	\$	233	\$ 266	\$	333	\$	1,060	\$ 391	\$	387	\$	423	\$	1,201
- ·	-						-	_			_		_		_	

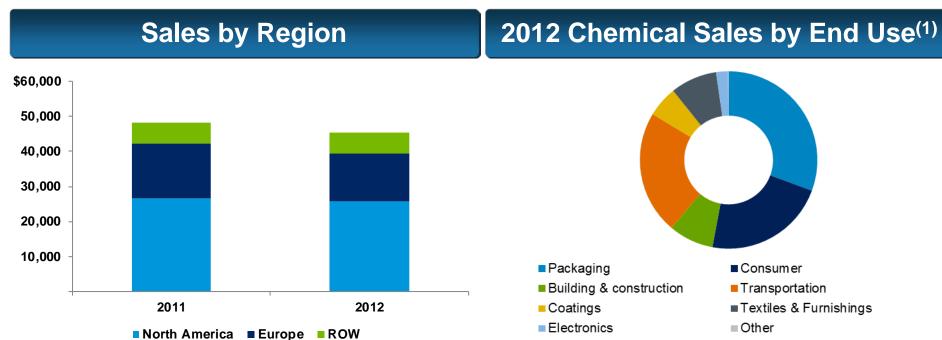
⁽a) See slide 26 for EBITDA calculation.

Reconciliation of EBITDA to Income from Continuing operations

	 2012						2013								
(Millions of U.S. dollars)	 Q1	_	Q2	_	Q3	 Q4		Total	 Q1	_	Q2		Q3		YTD
Net income attributable to the Company shareholders	\$ 600	\$	770	\$	846	\$ 632	\$	2,848	\$ 901	\$	929	\$	853	\$	2,683
Net income (loss) attributable to non-controlling interests	(1)		(2)		(2)	(9)		(14)	(1)		(2)		(2)		(5)
(Income) loss from discontinued operations, net of tax	 (5)	_			7	 22	_	24	6		(4)		3		5
Income from continuing operations	594		768		851	645		2,858	906		923		854		2,683
Provision for income taxes	301		306		435	285		1,327	357		410		339		1,106
Depreciation and amortization	237		244		236	266		983	253		254		262		769
Interest expense, net	 95	_	409		67	 69	_	640	 69		65		76	_	210
EBITDA	\$ 1,227	\$	1,727	\$	1,589	\$ 1,265	\$	5,808	\$ 1,585	\$	1,652	\$	1,531	\$	4,768

	2011										
(Millions of U.S. dollars)		Q1		Q2	Q3		Q4		Total		
Net income (loss) attributable to the Company shareholder	\$	663	\$	804 \$	895	\$	(215)	\$	2,147		
Net loss attributable to non-controlling interests		(3)		(1)	-		(3)		(7		
Loss from discontinued operations, net of tax		22		48	17		245		332		
Income from continuing operations		682		851	912		27		2,472		
Provision for (benefit from) income taxes		263		388	506		(98)		1,059		
Depreciation and amortization		215		224	237		255		931		
Interest expense, net		156		163	146		542		1,007		
EBITDA	\$	1,316	\$	1,626 \$	1,801	\$	726	\$	5,469		

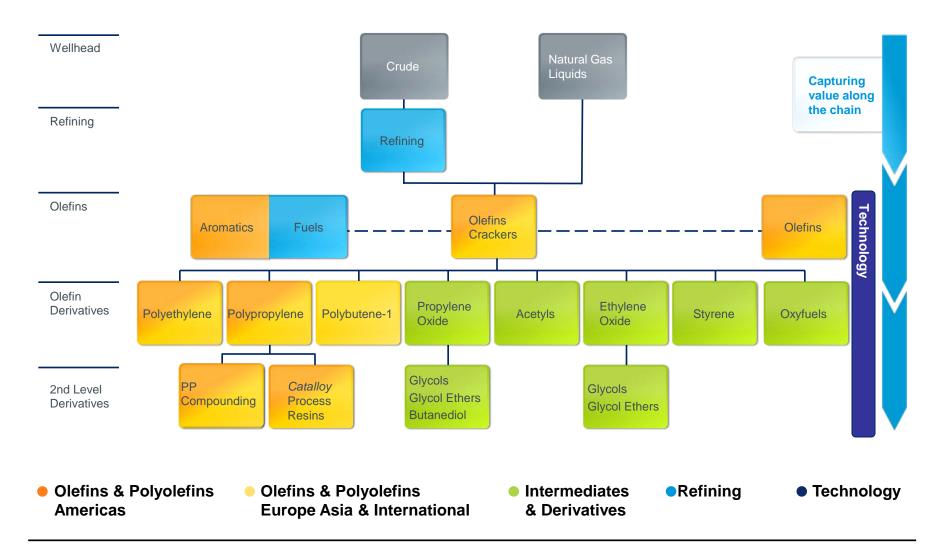
LYB Has Diverse Footprint and End Uses



N. America sales represent ~ 55% of total company revenues

(1) Estimated based on LYB 2012 third party chemical sales (O&P and Intermediates & Derivatives segments excluding olefin fuel products and oxyfuel sales) and third party industry volume estimates of product end uses.

Diversified and Vertically Integrated Portfolio



Olefins & Polyolefins – Americas

- Largest light olefins producer in North America
 - #1 propylene, #2 ethylene
 - Significant competitive advantage with scale, feedstock supply flexibility and vertical integration
- Third largest polyethylene producer in North America
 - Broad product portfolio provides market diversification and differential economics
- Largest polypropylene producer in North America
 - Advantaged propylene position due to high degree of integration
 - Catalloy adds specialty component

Product Position and Footprint

<u>Product</u> Light Olefins	<u>Facilities</u> 6 Crackers	Capacity ⁽¹⁾ NA 9.8 Bn lbs (ethylene)	A Ranking #1
Polypropylene	4 sites ⁽²⁾	4.4 Bn lbs	#1
Polyethylene	6 sites	5.9 Bn lbs	#3



Market leading positions + U.S. Natural Gas Liquids Advantage

Sources: Third party consultant, LYB.

(1) - Includes LYB wholly owned capacity and 100% of JV capacity as of December 31, 2012.

(2) - Includes Indelpro JV.

Olefins & Polyolefins - Europe, Asia, International

Moderate olefins position

 Medium-size light olefins player in Western Europe

Large scale polymer position

- Largest polyethylene producer in Western Europe
 - #1 high density polyethylene
 - #3 low density polyethylene
- Largest polypropylene producer in Western Europe with Catalloy adding to differentiation capability
- Largest PP Compounds producer globally

Significant Joint Ventures

8 JVs in Middle East and Asia-Pacific

Product Position and Footprint

<u>Product</u>	<u>Facilities</u>	Capacity ⁽¹⁾	W.E. Ranking
Ethylene	5 Crackers (1 JV)	6.5 Bn lbs	#6
Butadiene	2 sites	550 Mn lbs	#4
Polypropylene	16 sites (7 JVs)	13.0 Bn lbs	#1
Polyethylene	6 sites (2 JVs)	7.2 Bn lbs	#1
PP Compounding	16 sites (3 JVs)	2.6 Bn lbs	#1



Differentiated positions have provided steady results

Sources: Third party consultant, LYB.

(1) - Includes LYB wholly owned capacity and 100% of JV capacity as of December 31, 2012.

Intermediates & Derivatives (I&D)

- Leading propylene oxide position and technology
 - #2 propylene oxide producer worldwide
- Several products benefit from natural gas vs. crude oil
 - Acetyls
 - Ethylene oxygenates
 - HP-Isobutylene
 - Oxyfuels

Product Position and Footprint							
<u>Products</u>	<u>Facilities</u>	Capacity ⁽¹⁾					
Propylene Oxide	7 Sites	5.2 Bn lbs					
Acetic Acid	1 Site	1.2 Bn lbs					
Ethylene Glycol	1 Site	0.7 Bn lbs					
Isobutylene	3 Site	1.4 Bn lbs					
Oxyfuels	4 Sites	75,000 bbls/day					
Styrene	4 Sites	6.4 Bn lbs					



I&D – A robust and diversified portfolio

Sources: Third party consultant, LYB.

(1) - Includes LYB wholly owned capacity and 100% of JV capacity as of December 31, 2012.

Refining

- Independent gulf coast refinery
 - Crude capacity of 268 MBPD
 - Nelson complexity index of 12.5
- Process heavy, high sulfur crude oil
 - Typically sold at discount
- Benchmark spread
 - Maya 2-1-1
 - Diesel production approximately equal to gasoline

Houston Refinery

Refinery Units	Number of Units	<u>Capacity</u>
Crude	2	268 MBPD



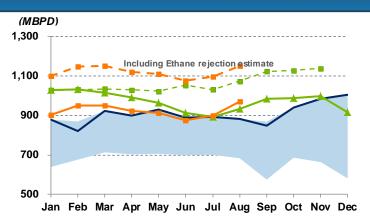
World class, high conversion, highly integrated refinery

Production and Inventories Remain Near Record Levels

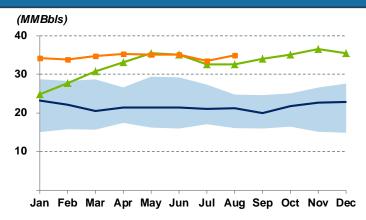
2011



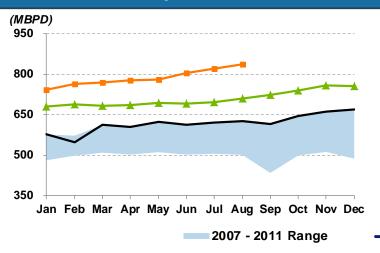
Historical Ethane Production



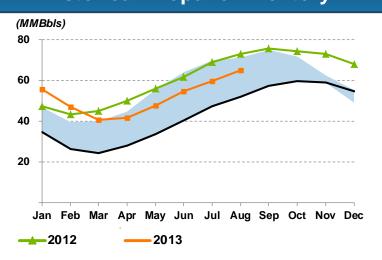
Historical Ethane Inventory



Historical Propane Production



Historical Propane Inventory

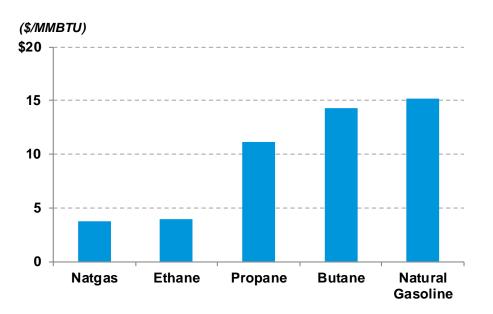


Sources: EIA and LYB estimates.

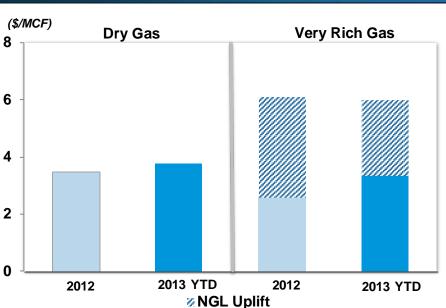
O&P – Americas: The Value of NGLs Drives Production Even at Low Natural Gas Prices



NGL Component Values vs. Natural Gas



Dry vs. Rich Gas: NGL Uplift (Margin Over Fuel Value)



NGLs provide significant additional value to gas producers

Source: Third party consultants, LYB. Data as of mid-November 2013.

I&D: Globally Diversified End Uses

Propylene Oxide & Derivatives





- Home and auto cushioning
- Insulation foams
- Polyester composites
- Coatings
- Automotive parts
- Spandex

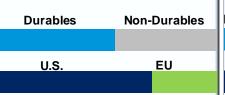
Durables Non-Durables
U.S. EU Asia

Acetyls





- Food packaging
- Textiles
- Coatings
- Safety glass



Ethylene Oxide & Derivatives





- Surfactants
- Antifreeze
- Industrial coatings
- Polyester

Durables Non-Durables
U.S. Asia

Co-Products: Oxyfuels, Isobutylene and Styrene





- Gasoline blending
- Lube & fuel additives
- Tires
- Polyester composites
- Food packaging

Durables		Non-Durables			
	U.S.			EU	Asia

Note: estimated based on LYB 2012 Intermediates and Derivatives third party sales by region, and third party industry estimates of products end uses.

Possible/Developing Growth Projects

Project	Cost (\$Million)	Start-up	Potential Pre-Tax Earnings (\$ Million/year)
PP Compounding Growth	~ \$40	2013 - 2016	\$70 - \$90
PO/TBA Joint Venture	MOU	2016	\$70 - \$90
Olefins NGL Recovery	~ \$200	2016	\$110 - \$130
Possible New PE line	~ \$200	Late 2016	\$50 - \$100
Total	~ \$440		~ \$300 - \$410

Additional strong projects under development

(1) Capital costs are based on preliminary 2013 company estimates and values are based on September 2013 LTM industry benchmark margins.