SEIZE THE MOMENT

SECURING THE FUTURE

Barclays "Best of Americas" Conference London May 2013

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Information Related to Financial Measures

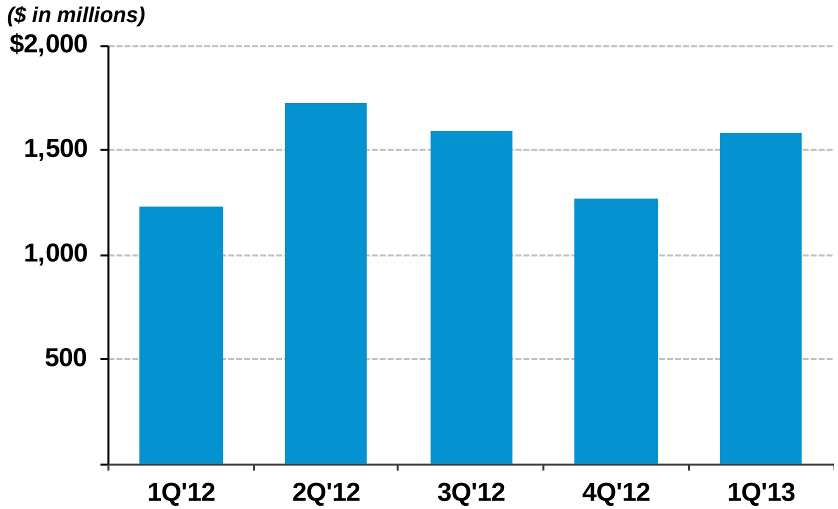
We have included EBITDA in this presentation, which is a non-GAAP measure, as we believe that EBITDA is a measure commonly used by investors. However, EBITDA, as presented herein, may not be comparable to a similarly titled measure reported by other companies due to differences in the way the measure 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 Table 9 at the end of the slides 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.

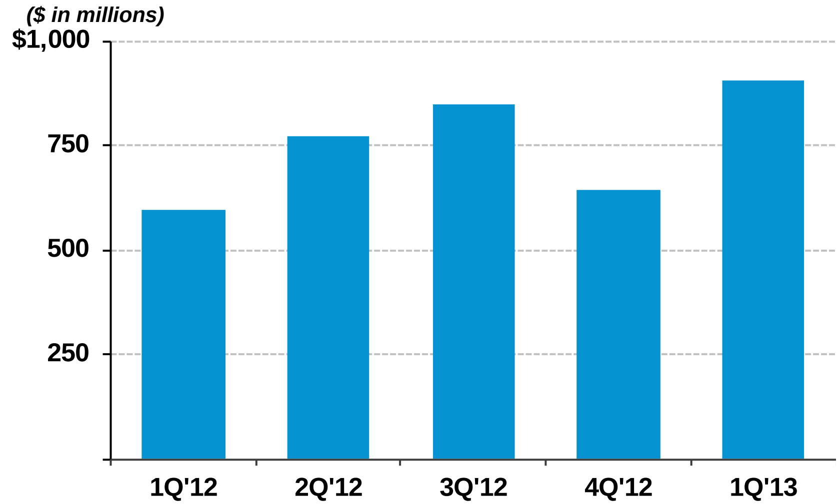
LYB Highlights

($ in millions, except per share data)	LTM March 2013	FY 2012	FY 2011
EBITDA	$6,166	$5,808	$5,469
Income from Continuing Operations	$3,170	$2,858	$2,472
Diluted Earnings ($ / share) from Continuing Operations	$5.49	$4.96	$4.32

EBITDA(1)



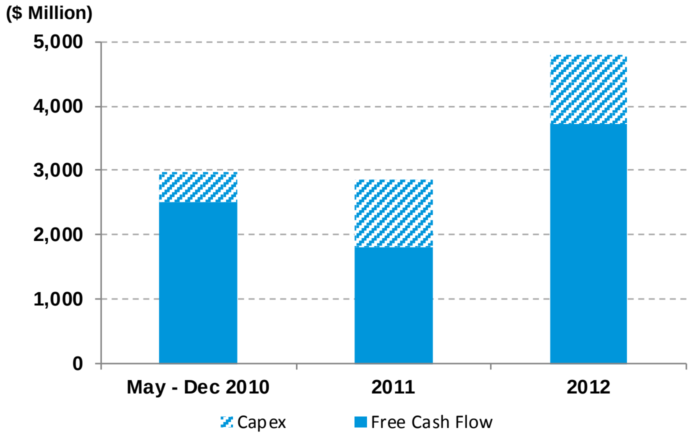
Income from Continuing Operations(1)



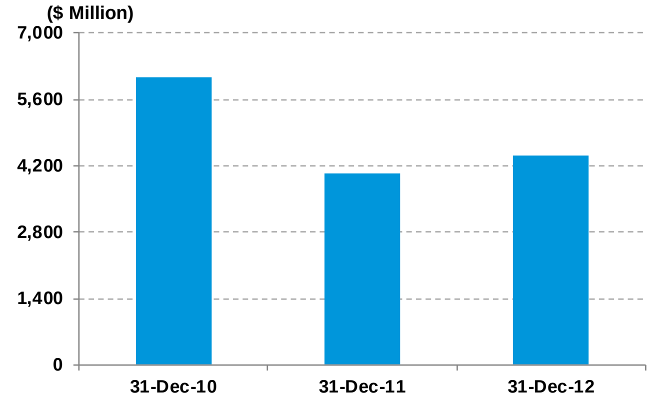
(1) EBITDA and income from continuing operations include a lower of cost or market adjustment of $71 million in the second quarter 2012 which was reversed in the third quarter 2012, due to a recovery in market prices.

Free Cash Flow Funds Growth and Return to Investors

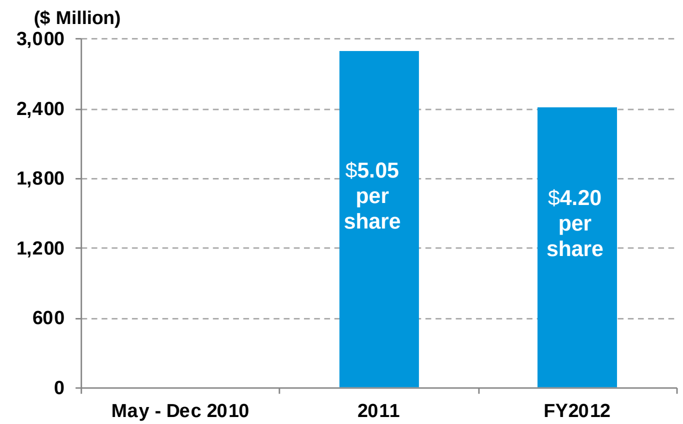
Net Cash from Operations



Total Debt



Dividends(2)



- 2012 total Dividend Yield(1) ~ 7%
- ~ $7 Billion of Combined Net Debt Repayment and Dividends(2) From May 2010 through December 2012

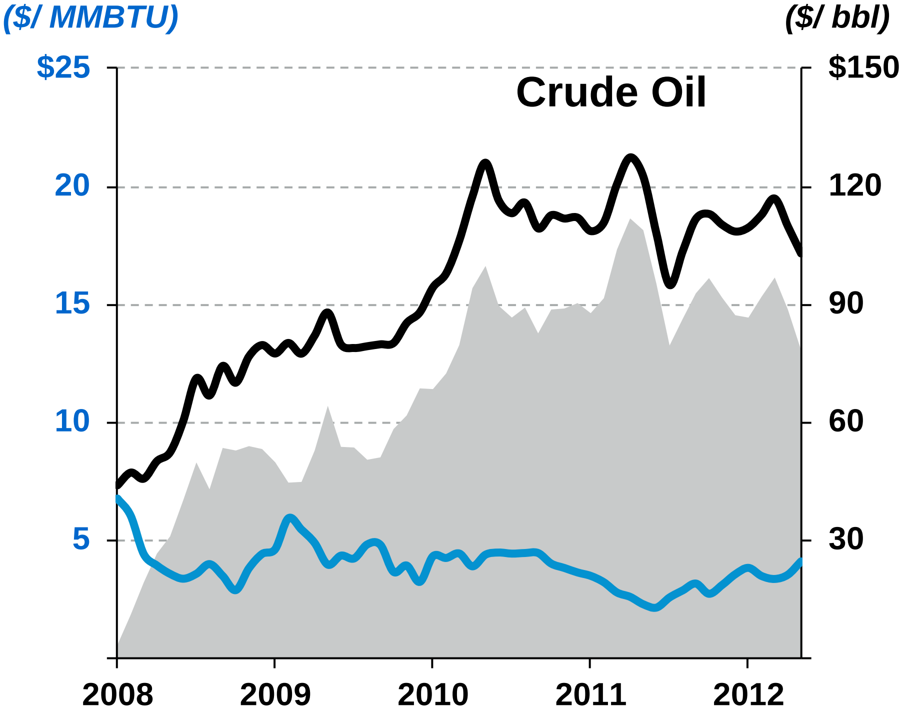
(1) Dividend Yield data means the total 2012 dividends divided by the company market capitalization. The market cap is calculated based on Dec 31, 2012 closing stock price of $57.09 per share and approximately 575 million outstanding shares.
(2) Dividends include interim and special dividends.

Optimizing Our Businesses

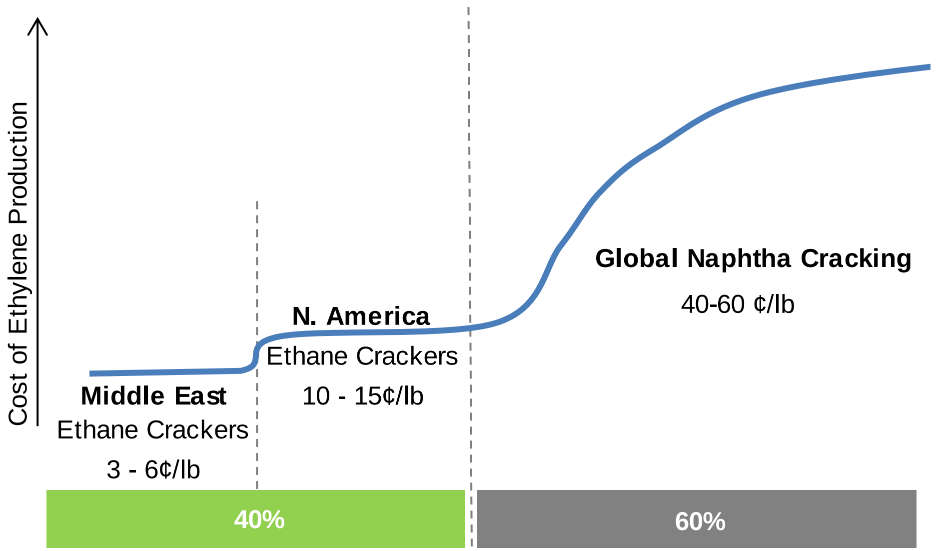
Segment	LYB Market Position	Portfolio Role
Olefins & Polyolefins – Americas	• NGL advantage • Cyclical upside	**Invest**
Olefins & Polyolefins – EAI	• Commodities – naphtha based, with cyclical upside • Differentiated positions in *Catalloy*, PP compounding, and JVs	**Restructure**
Intermediates & Derivatives (I&D)	• Proprietary technologies • Natural gas advantage	**Invest**
Refining	• Large, heavy crude refinery	**Sustain**
Technology	• Strong technology position • Maintain leadership	**Optimize**

Highly Advantaged Position in N. America

U.S. Crude Oil vs. Natural Gas Price



Ethylene Production Cost Curve

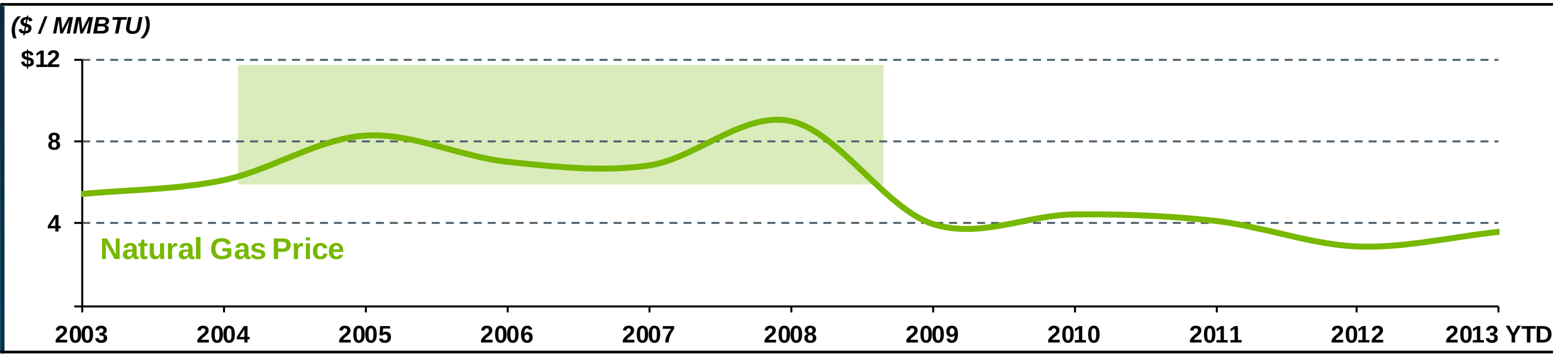


U.S. shale gas revolution significant driver of profitability in North American Olefins and Polyolefins and Intermediate and Derivatives business units

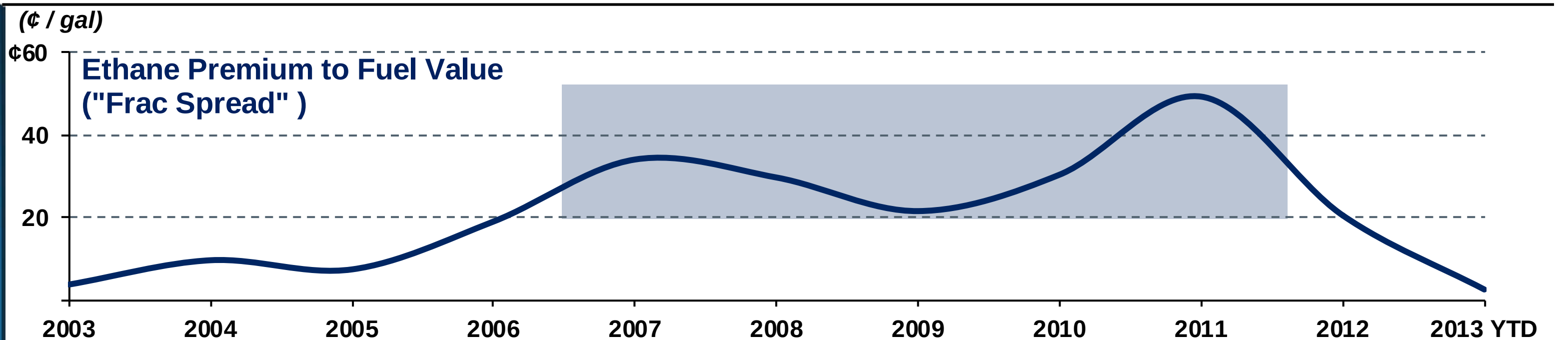
Sources: LYB estimates, third party consultants.

Evolution of Shale Gas Value Chain

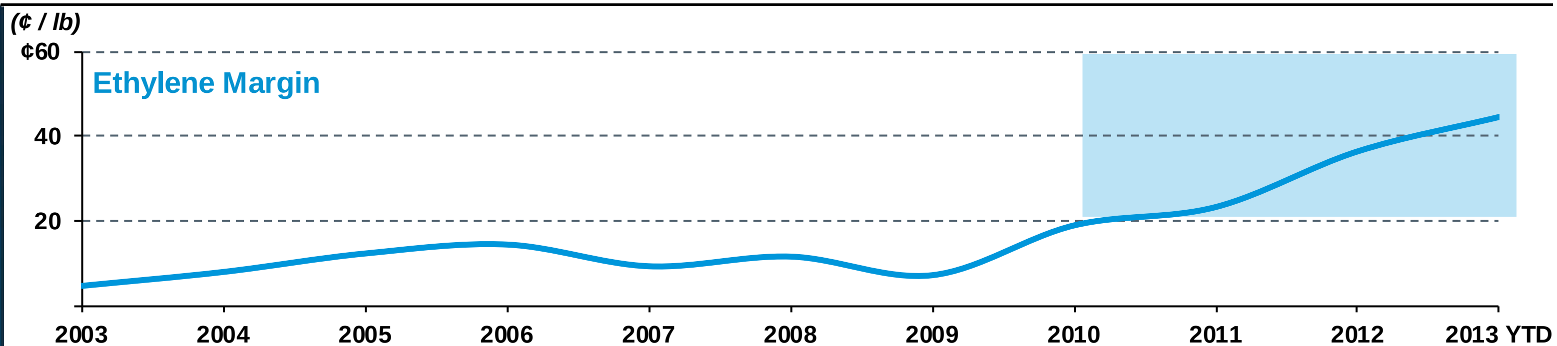
Upstream
(Natural Gas E&P)



Midstream
(Fractionation & Pipelines)



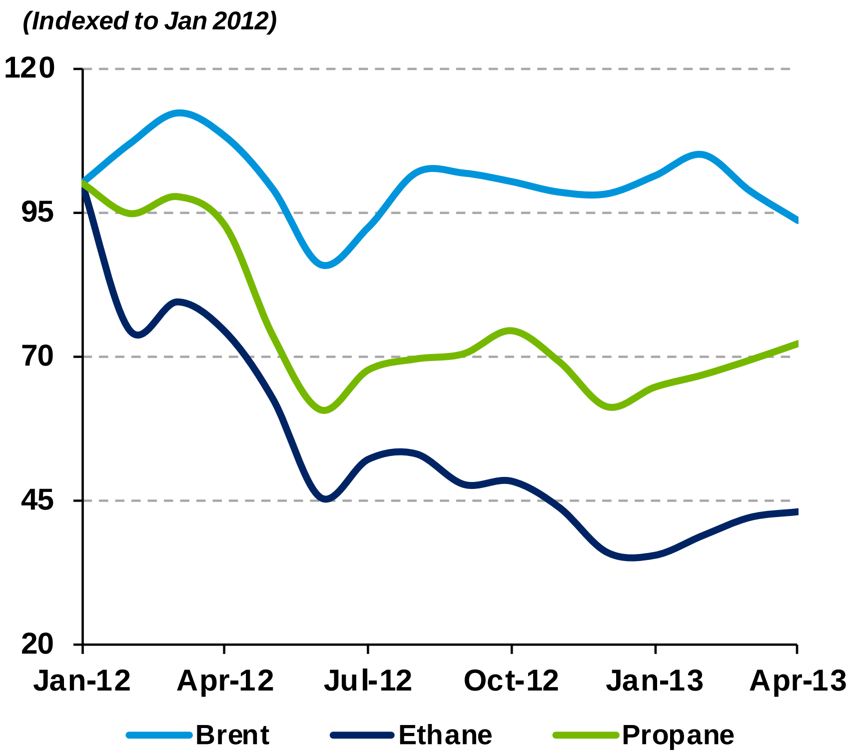
Chemicals
(Ethylene Crackers)



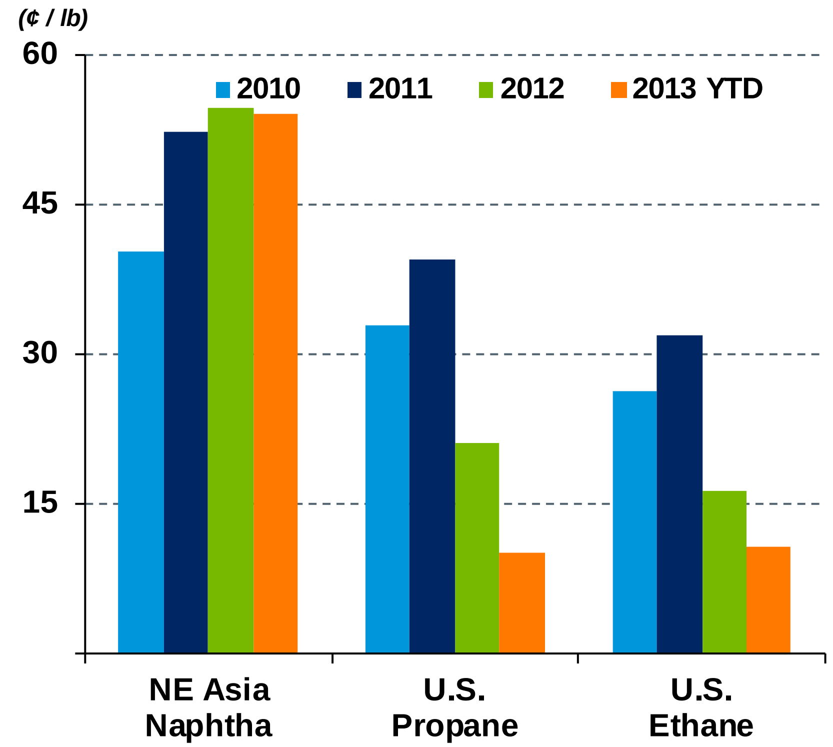
Source: Third party consultants. YTD as of April 2013.

Fundamentals of Natural Gas / NGLs Defined Our Competitive Advantage

U.S. NGL Prices vs. Brent



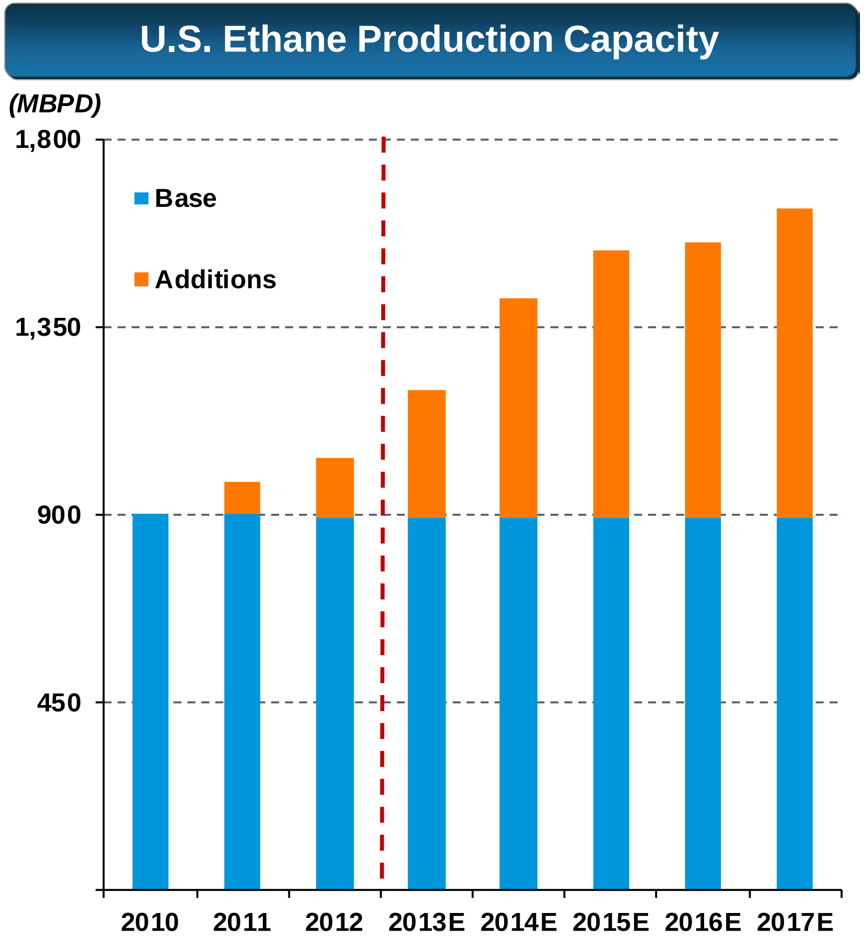
Cost of Ethylene Production

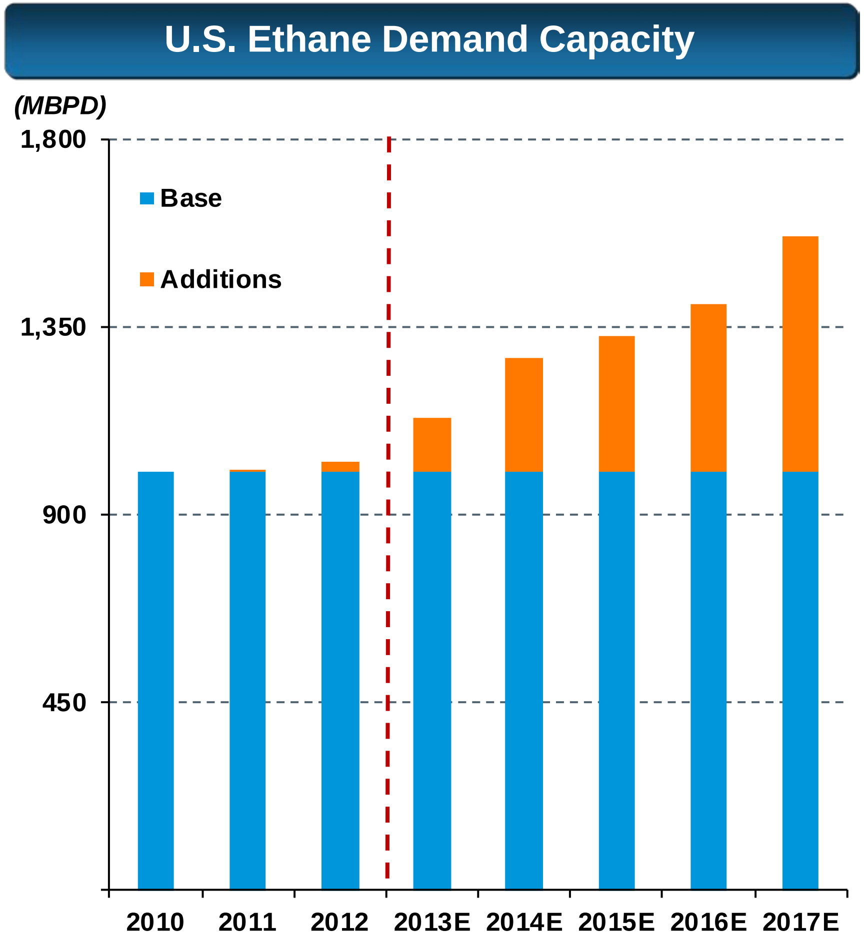


- U.S. NGL advantage has grown steadily
- Cost of ethylene production from naphtha has been high but stable
- LYB has increased NGL cracking capability from ~70% in 2010 to 87% in early 2013

Source: Third party consultants. YTD as of April 2013.

Ethane Fractionation and Consumption Capacity



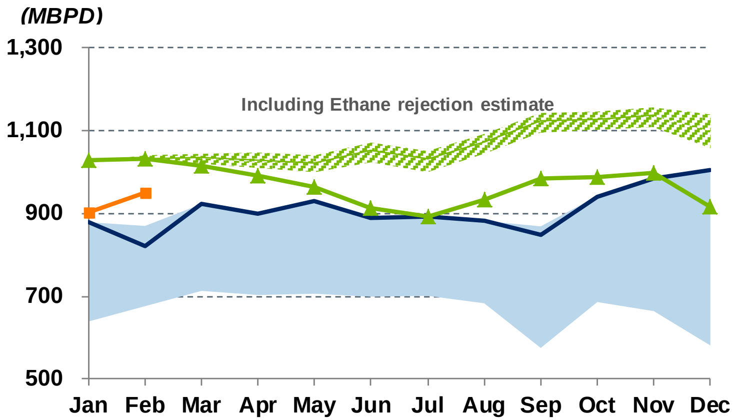


Ethane production is expected to continue exceeding demand

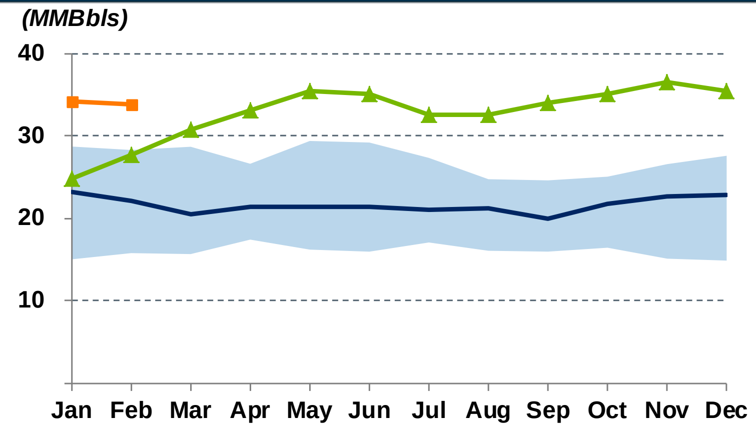
Sources: EIA, EnVantage and LYB estimates.

Production and Inventories Remain at Record Levels

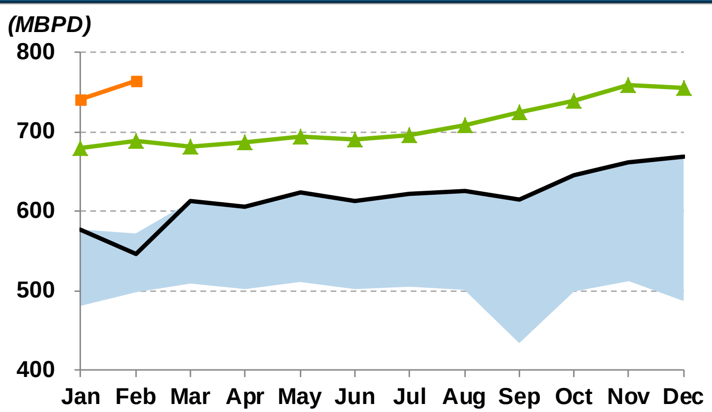
Historical Ethane Production



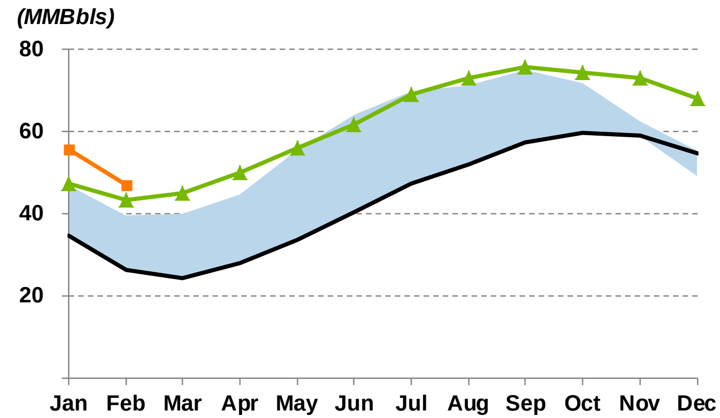
Historical Ethane Inventory



Historical Propane Production



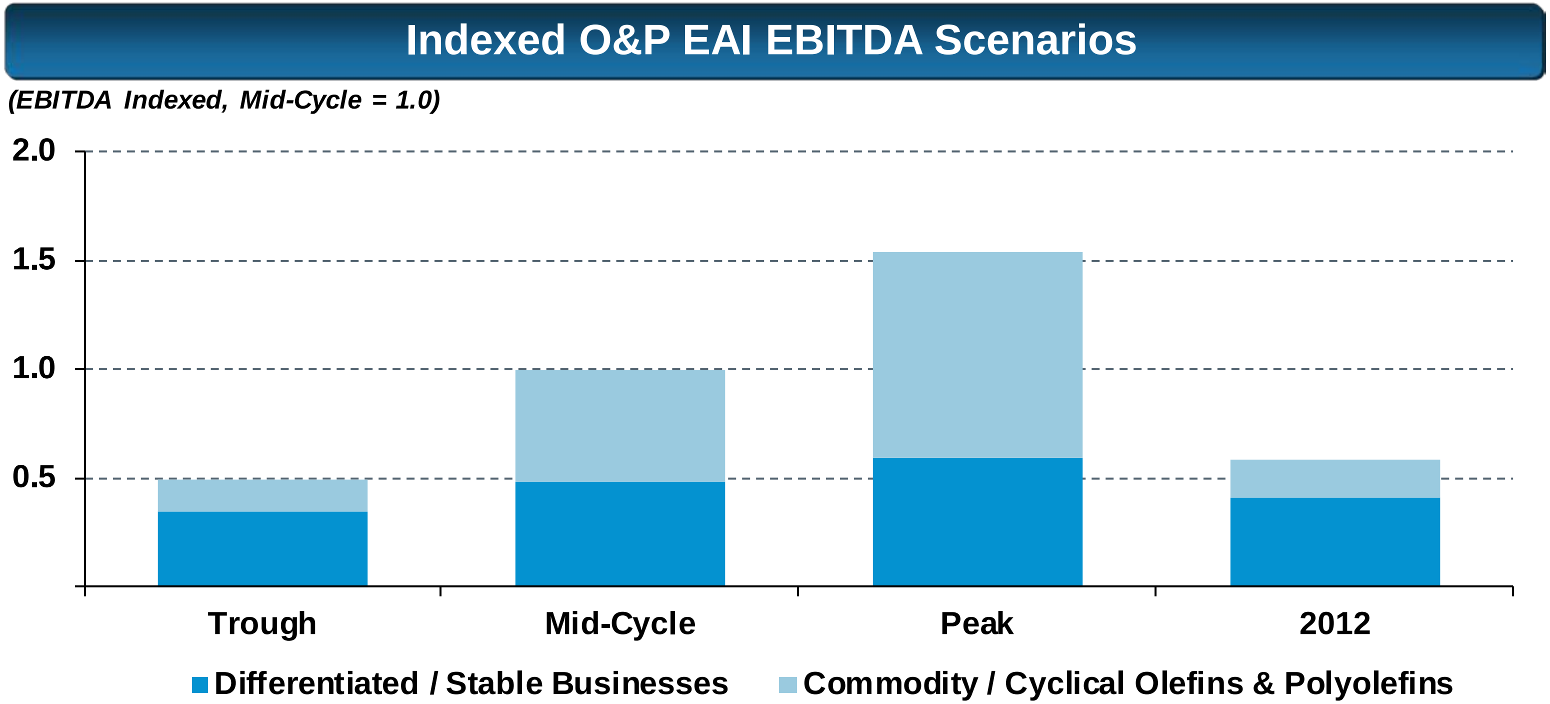
Historical Propane Inventory



2007 - 2011 Range 2011 2012 2013

Sources: EIA and LYB estimates.

O&P – EAI: Our Recent Profits are Mostly from Our Differentiated Position



- 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 represents $350 - $550 million per year over the cycle

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

Focus business management processes

Segment markets and customers

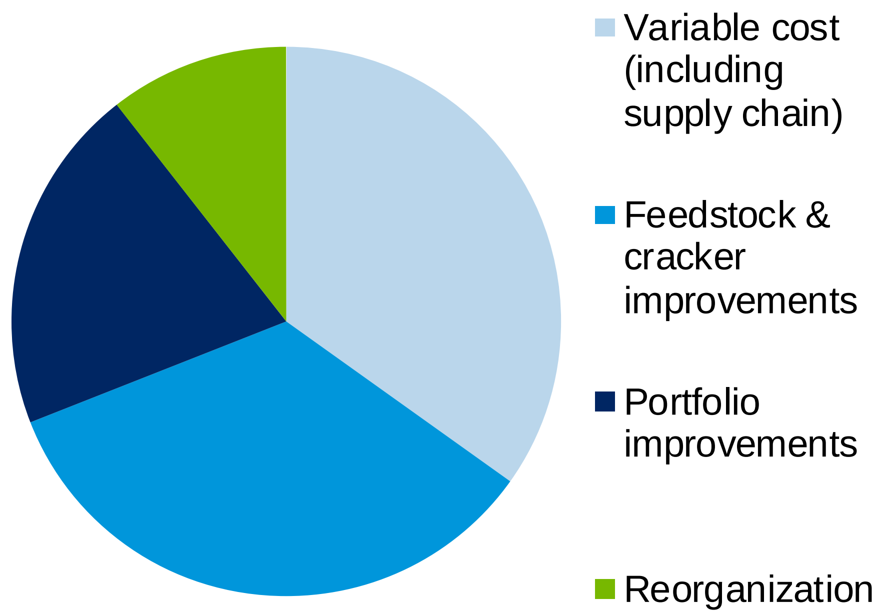
Simplify supply chain processes

Previously announced restructuring

Improve feedstock purchasing

Additional actions taken

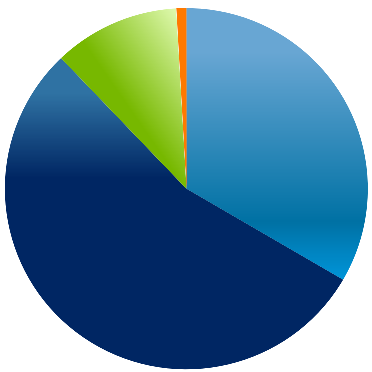
Estimated Efficiency Gains



I&D: Businesses Generate Strong and Stable Cash Flow

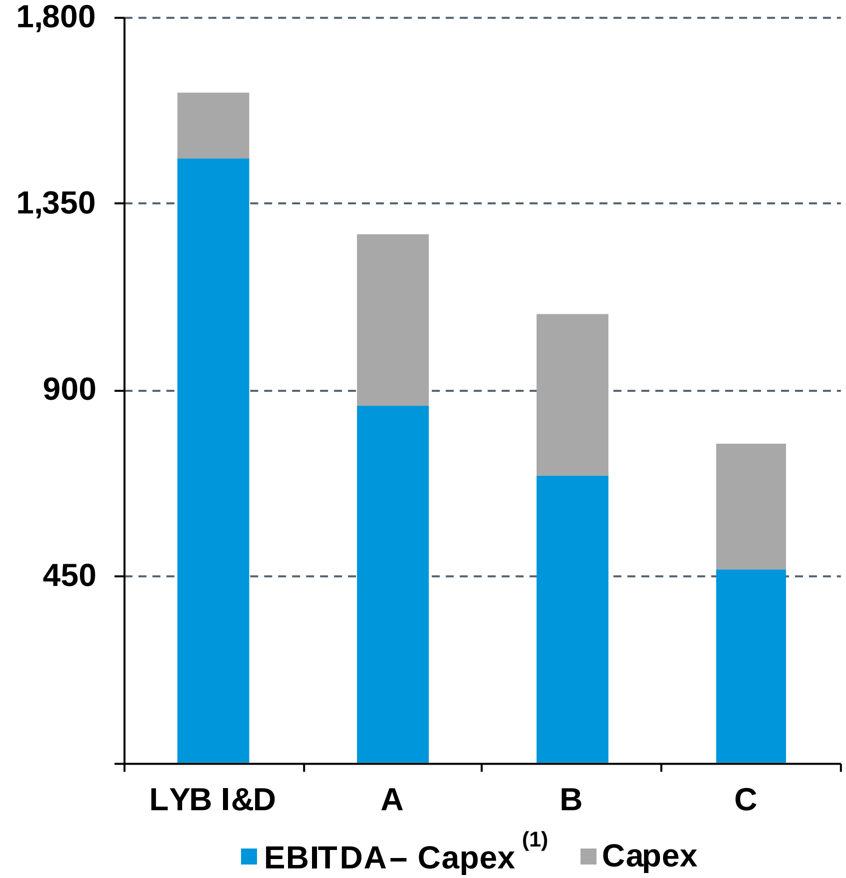
	PO	C4's / Oxyfuels	Acetyls	EO & Derivatives
Proprietary Technology	✓	✓	✓	
Advantaged NGL / Crude Oil Price Ratio		✓	✓	✓

2012 Intermediates & Derivatives EBITDA



2012 EBITDA(1) less Capex

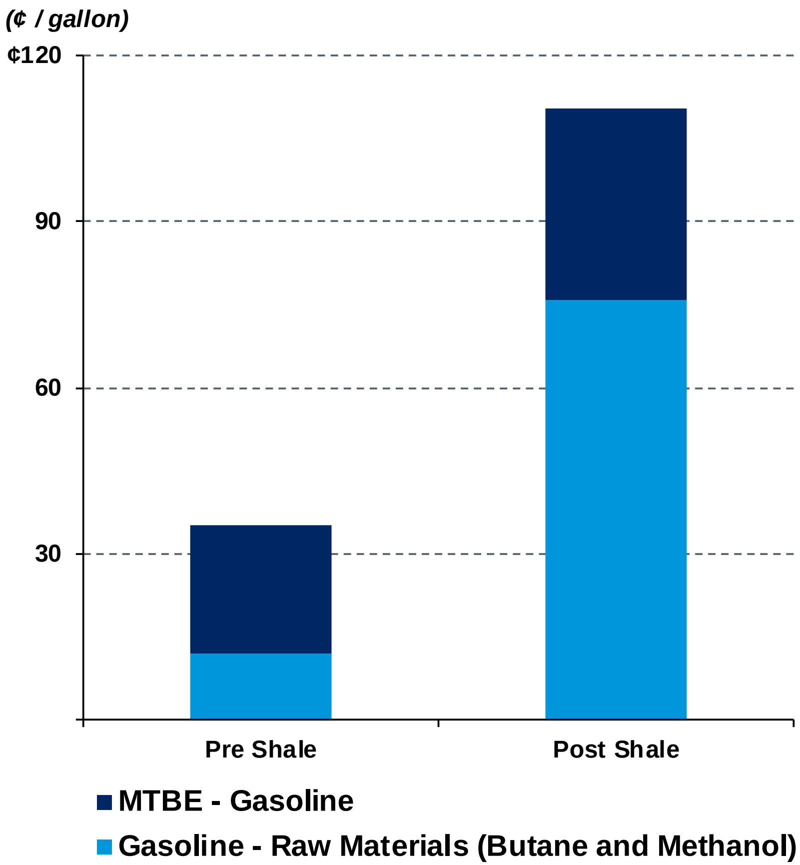
($ in millions)



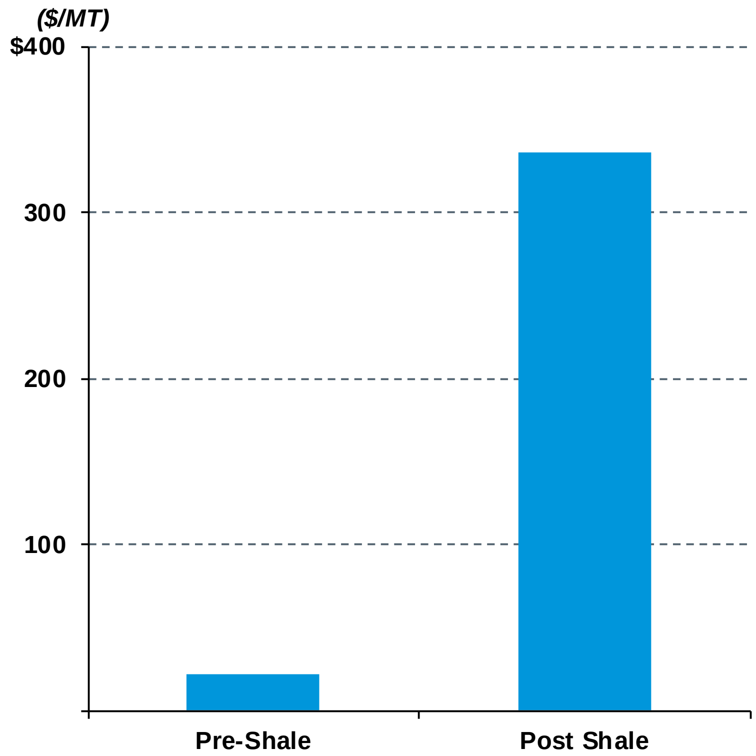
Note: LYB peers include Eastman, Huntsman and Celanese.
(1) For purposes of peer comparison, EBITDA = operating income + D&A.

I&D Benefits from Shale Gas Development

MTBE Spread Factors



Methanol Cash Margins



Sources: Third party consultants.

I&D: Our Path to Growth

Methanol Restart

- Location: Channelview, TX
- Start-up: Q4'13
- Cost: $150 Million
- Potential Growth Value(1): $250 Million/yr
- Project Status: permitted, construction underway
- Product Marketing: complete

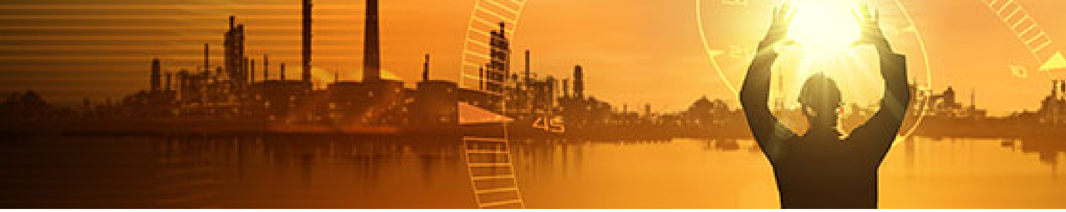
PO/TBA Sinopec JV

- Location: China
- Start-up: 2016
- Potential JV Dividends: $70 - $90 Million/yr
- Project Status: signed "Memorandum of Understanding"

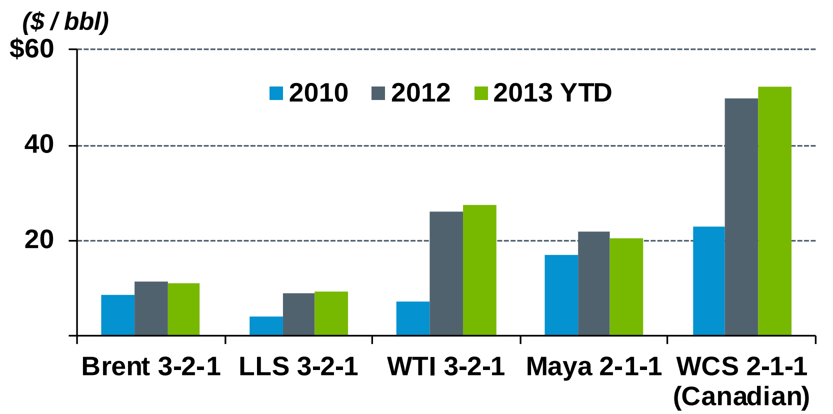
Channelview, TX

(1) Potential growth value is based on 2012 margins; *see* Appendix A

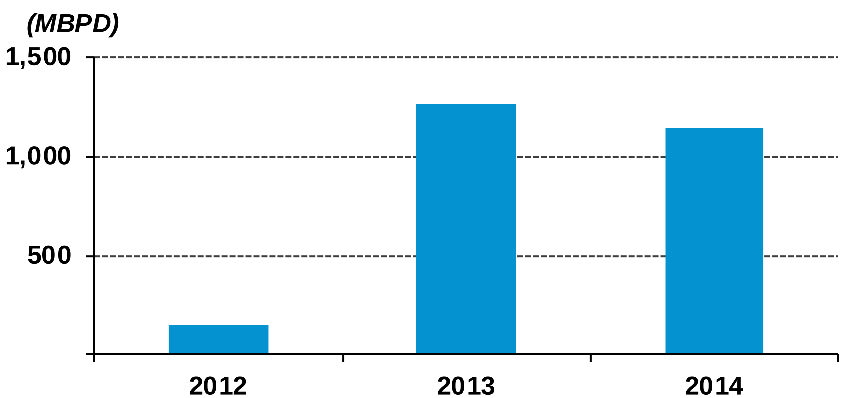
Refining: Profitability Driven by Geography and Complexity



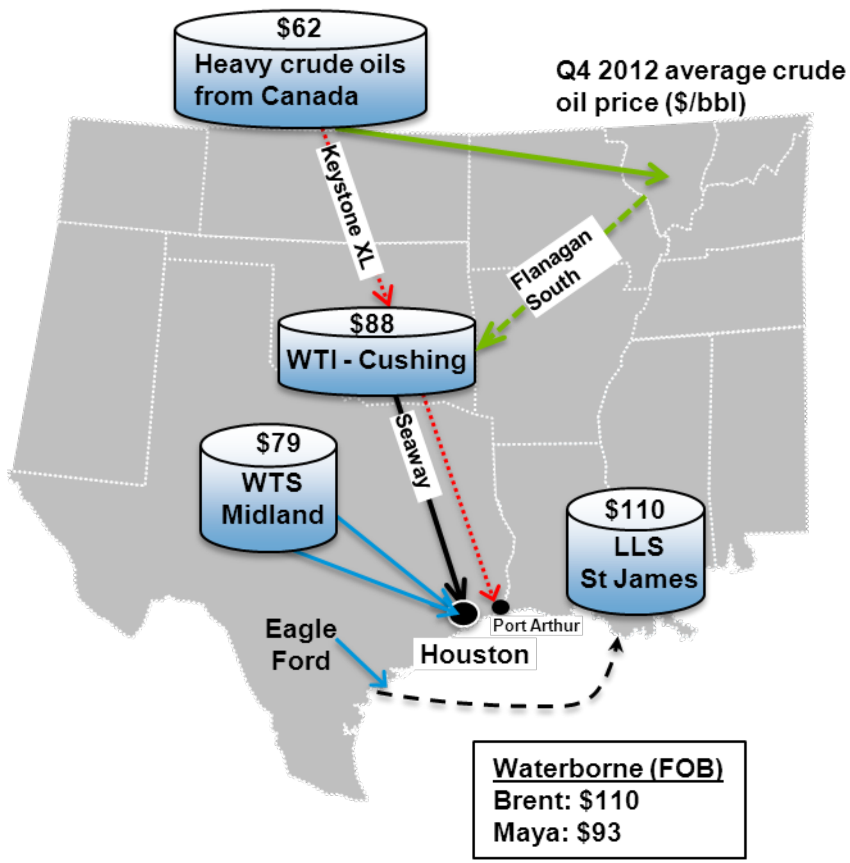
Refining Spreads



Pipeline Capacity Increase



New Pipeline Capacity to Houston



Source: Bloomberg and Wall Street research. 2013 YTD as of April 2013.
Notes: Maya 2-1-1 based on LLS pricing. WCS refers to west Canadian select vs. Gulf Coast products.

Cash Deployment Hierarchy

		Current Status	Comments
Foundation	Base Capex	$700 - $800 million/yr	• First priorities for cash
	Interest	~$260 million/yr	
	Interim Dividend	~$920 million per year	• Fund through the cycle with cash flow from operations
Discretionary Opportunities	Growth Capex	~$750 million per year over next 2 years	• High-return in advantaged businesses
	Special Dividends / Share Repurchases / Acquisitions	Balance of cash generated	• Discretionary cash returned to shareholders • M&A if strategic and meaningfully accretive

Growth and Operational Improvement Programs

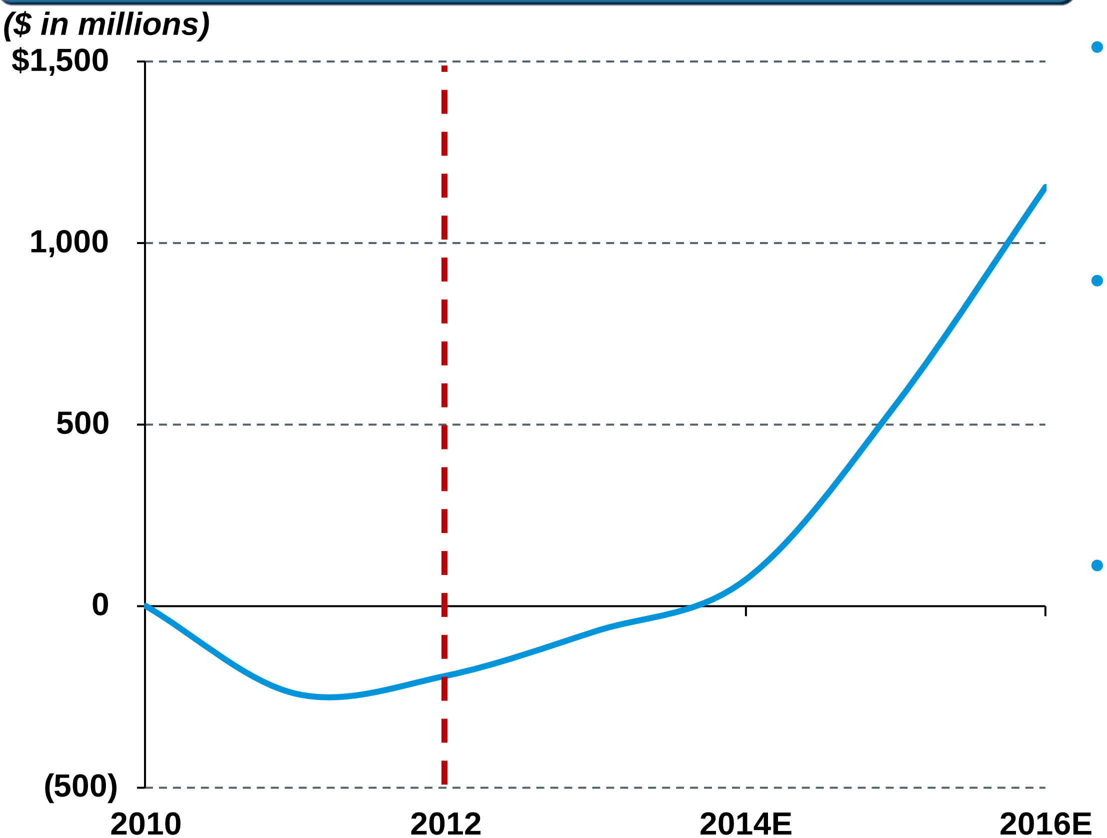
Opportunities	Capital Investments	Pre-tax Earnings
Operational Improvements	Minimal	$250 – 400 Million
Previously Announced Growth Projects	$600 – 700 Million	$800 - 1,000 Million
New Growth Projects	$900 – 1,000 Million	$500 – 600 Million

At 2012 conditions, our growth and improvement programs are expected to generate an additional $1.5 – 2.0 billion pre-tax earnings per year by 2016

(1) Costs are based on company estimates and earnings values are based on 2012 industry benchmark margins; *see* Appendix A.

Importance of Capital Project Selection

Annual Cash Flow from Announced Growth Projects[1]



Fast Execution & High Returns

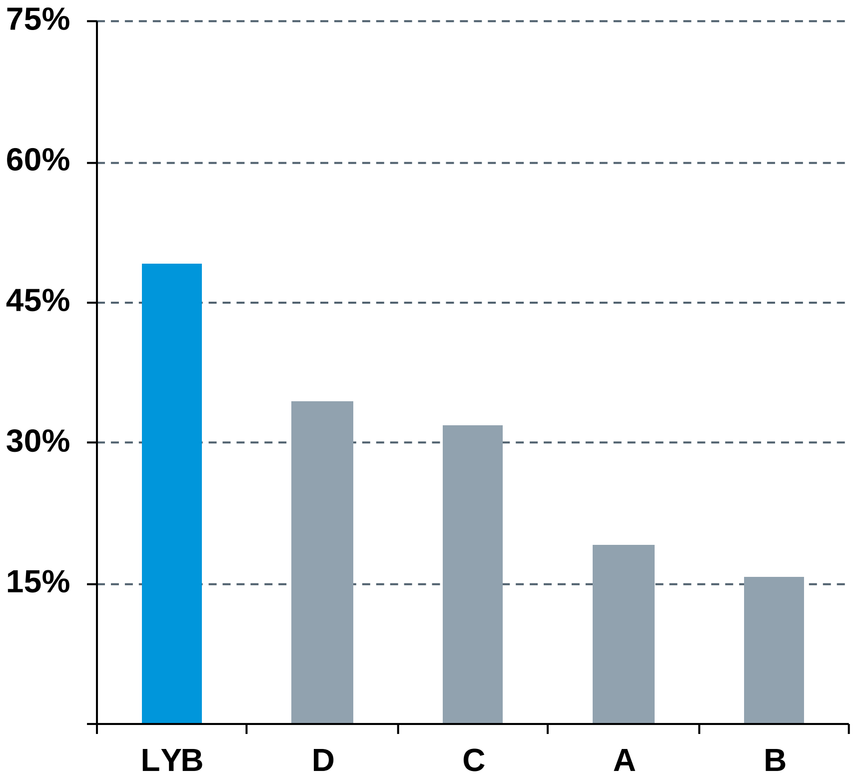
- Announced projects expected to be on line by 2016
- $1.6 billion of announced growth capital expenditures from 2013 to 2016
- Over $1.5 billion per year of additional EBITDA at 2012 margins by 2017

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

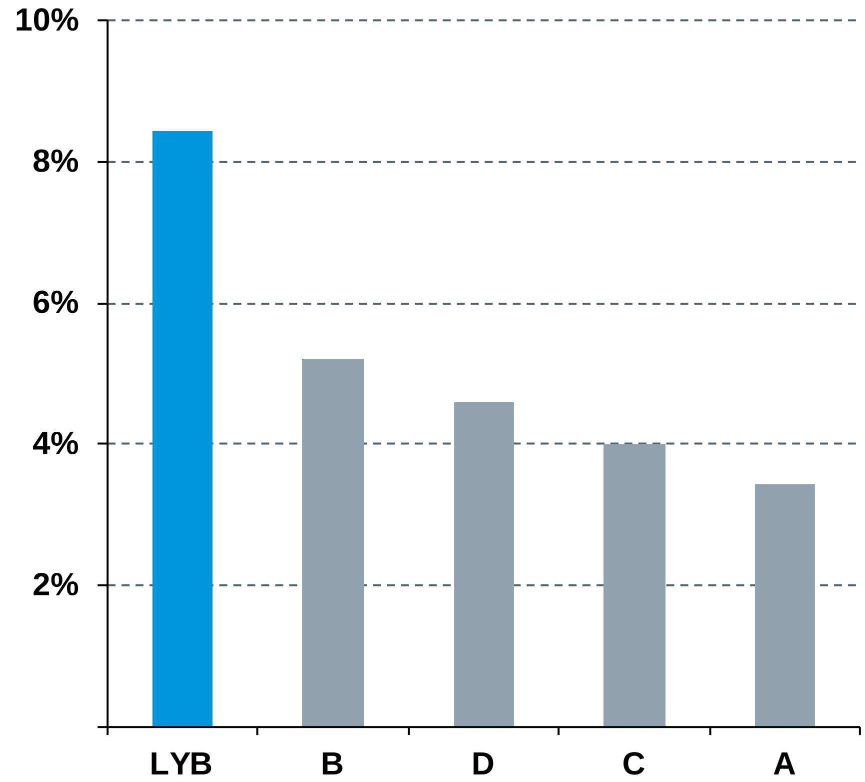
(1) EBITDA estimates assume 2012 benchmark margins for future periods. Cash flow defined as EBITDA less depreciation, cash taxes and capital expenditures.

LYB Delivers More Cash to the Bottom Line

2011 - '12 Free Cash Flow as % of EBITDA(1)



2011 - '12 Free Cash Flow as % of 2012 Year-End Market Cap



LYB free cash flow generation significantly exceeds peers

Source: Based on company filings and Capital IQ.
Notes: Peers are Celanese, Dow, Eastman and Huntsman. Free cash flow = cash from operations - capital expenditures.
(1) For purposes of peer comparison, EBITDA = operating income + D&A.

Value from Both Growth and Cash Distributions

Growth Projects Value Potential

Annual Discretionary Cash Potential

Potential Discretionary Cash → **Potential Shareholder Distributions**

$2.0 - $3.5 billion discretionary cash in addition to interim dividends[(1)]

- **Special dividend**

AND / OR

- **Shares repurchases**

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

(1) Assuming growth projects potential value at constant 2012 margins.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Reconciliation of Segment Information to Consolidated Financial Information

Table 8 - Reconciliation of Segment Information to Consolidated Financial Information

(Millions of U.S. dollars)	2012 Q1	2012 Q2	2012 Q3	2012 Q4	2012 Total	2013 Q1
Sales and other operating revenues:						
Olefins & Polyolefins - Americas	$ 3,349	$ 3,283	$ 3,217	$ 3,085	$ 12,934	$ 3,244
Olefins & Polyolefins - Europe, Asia, International	3,898	3,575	3,448	3,600	14,521	3,800
Intermediates & Derivatives	2,485	2,285	2,637	2,251	9,658	2,282
Refining	3,203	3,496	3,272	3,320	13,291	2,468
Technology	119	115	124	140	498	134
Other	(1,320)	(1,506)	(1,425)	(1,299)	(5,550)	(1,259)
Continuing Operations	$ 11,734	$ 11,248	$ 11,273	$ 11,097	$ 45,352	$ 10,669
Operating income (loss):						
Olefins & Polyolefins - Americas	$ 519	$ 700	$ 738	$ 693	$ 2,650	$ 821
Olefins & Polyolefins - Europe, Asia, International	3	203	15	(94)	127	93
Intermediates & Derivatives	370	390	424	246	1,430	323
Refining	10	124	114	86	334	(17)
Technology	38	30	31	23	122	50
Other	- -	2	6	5	13	(3)
Continuing Operations	$ 940	$ 1,449	$ 1,328	$ 959	$ 4,676	$ 1,267
Depreciation and amortization:						
Olefins & Polyolefins - Americas	$ 65	$ 71	$ 69	$ 76	$ 281	$ 75
Olefins & Polyolefins - Europe, Asia, International	69	69	63	84	285	77
Intermediates & Derivatives	47	48	49	50	194	48
Refining	38	37	36	37	148	36
Technology	18	19	18	18	73	17
Other	- -	- -	1	1	2	- -
Continuing Operations	$ 237	$ 244	$ 236	$ 266	$ 983	$ 253
EBITDA: (a)						
Olefins & Polyolefins - Americas	$ 595	$ 781	$ 814	$ 778	$ 2,968	$ 898
Olefins & Polyolefins - Europe, Asia, International	115	305	102	26	548	225
Intermediates & Derivatives	417	432	475	297	1,621	373
Refining	48	160	150	123	481	20
Technology	56	50	49	42	197	66
Other	(4)	(1)	(1)	(1)	(7)	3
Continuing Operations	$ 1,227	$ 1,727	$ 1,589	$ 1,265	$ 5,808	$ 1,585
Capital, turnarounds and IT deferred spending:						
Olefins & Polyolefins - Americas	$ 102	$ 135	$ 126	$ 105	$ 468	$ 122
Olefins & Polyolefins - Europe, Asia, International	60	39	60	95	254	63
Intermediates & Derivatives	18	24	44	73	159	106
Refining	38	27	24	47	136	93
Technology	9	8	12	14	43	7
Other	2	3	1	(1)	5	- -
Total	229	236	267	333	1,065	391
Deferred charges included above	(1)	(3)	(1)	- -	(5)	- -
Continuing Operations	$ 228	$ 233	$ 266	$ 333	$ 1,060	$ 391

(a) See Table 9 for EBITDA calculation.

Reconciliation of EBITDA to Income from Continuing operations

Table 9 - EBITDA Calculation

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

2011 EBITDA Reconciliation to Income from Continuing operations

EBITDA Calculation - 2011

(Millions of U.S. dollars)	2011 Q1	2011 Q2	2011 Q3	2011 Q4	2011 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

Future Operational and Financial Improvements

Further O&P – EAI Restructuring	Further structural and product mix improvements	To be completed by 2015
Further Houston Refinery Flexibility	Expand operating window / increase feedstock capacity for lighter Canadian crude oil	To be completed by 2014

Future improvements are expected to yield an additional \$250 - \$400 million per year by 2015[(1)]

(1) Costs are based on company estimates and values are based on 2012 industry benchmark margins; *see* Appendix A.

Previously Announced High-Return Growth Opportunities

- La Porte Expansion
- Olefins Ethane Capability
- Methanol Restart
- O&P EAI Butadiene Expansion
- Midwest Debottlenecks
- PO/TBA JV
- PP Compounding Growth
- Other Quick-Return Projects

Remaining Projected Spending

$600 - $700 million

Additional Potential Pre-Tax Earnings

$800 - $1,000 million per year by 2016(1)

Previously announced projects are on track

- $600 – $700 million of capital remaining to be spent in the near-future
- $800 – $1,000 million of additional annual pre-tax earnings by 2016

(1) Costs are based on company estimates and values are based on 2012 industry benchmark margins; *see* Appendix A.

New Growth Opportunities

- Channelview Expansion
- Corpus Christi Expansion
- Olefins NGL Recovery
- PE Debottleneck
- Potential New PE Line

Projected Spending

$900 - $1,000 million

Potential Pre-Tax Earnings

$500 - $600 million per year by 2016(1)

Combined projects will have average payback period less than 2 years

(1) Costs are based on company estimates and values are based on 2012 industry benchmark margins; *see* Appendix A.

Appendix A

Details of Assumptions:

- **O&P - Americas:**
  - Growth projects potential values are based on LYB growth projects capacities and 2012 industry benchmark margins data from third party consultants as indicated in the 2013 Investor Day O&P Americas slides.
- **O&P - EAI:**
  - Growth projects potential values are based on LYB growth projects capacities and 2012 industry benchmark margins data from third party consultants as indicated in the 2013 Investor Day O&P EAI slides.
  - Improvements are based on company estimates of restructuring costs and benefits.
- **I&D:**
  - Growth projects potential values are based on LYB growth projects capacities and 2012 industry benchmark margins data from third party consultants as indicated in the 2013 Investor Day I&D slides.
- **Refining:**
  - Improvements potential values are based on data indicated in the 2013 Investor Day Refining slides.

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.