





Opportunity Day

1Q/2014 Operating Result

The Stock Exchange Of Thailand May 21st, 2014





Disclaimer



This presentation includes forward-looking statements that are subject to risks and uncertainties, including those pertaining to the anticipated benefits to be realized from the proposals described herein. This presentation contains a number of forward-looking statements including, in particular, statements about future events, future financial performance, plans, strategies, expectations, prospects, competitive environment, regulation and supply and demand.

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Agenda



- 1Q/14 Operating Results
- 2 Strategy and Excellence Projects Updates
- 3 2014 Market Outlook

Agenda



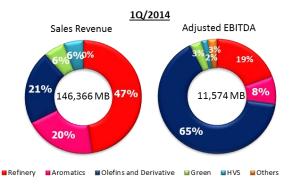
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1Q/14 Business Highlights



Performance Soften from Weak Aromatics Market and Key Performance Plant Shutdowns

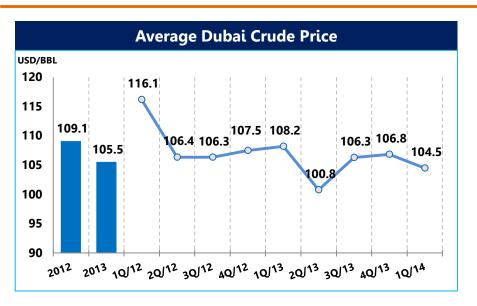
| (Unit: Million Baht) | 1Q/13 | 4Q/13 | 1Q/14 | Change YoY | Change QoQ |
|---------------------------------|---------|---------|---------|---------------|---------------|
| Sale Revenue | 141,309 | 154,599 | 146,366 | +4% | -5% |
| EBITDA | 16,419 | 14,089 | 10,999 | -33% | -22% |
| EBITDA Margin (%) | 12% | 9% | 8% | -35% | -18% |
| Net Profit | 12,075 | 7,421 | 6,296 | -48% | -15% |
| Earnings Per Share (Baht/share) | 2.68 | 1.65 | 1.40 | -48% | -15% |
| | | | | | |
| Adjusted EBITDA | 17,062 | 12,763 | 11,574 | -32% | -9% |
| Adjusted EBITDA Margin (%) | 12% | 8% | 8% | -35% | -4% |

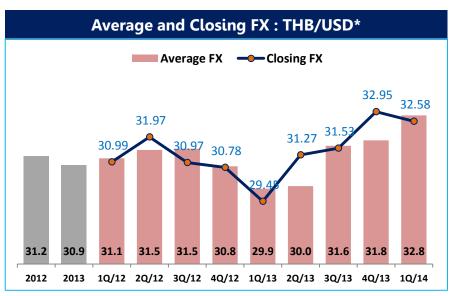


| % EBITDA Margin | 1Q/2013 | 4Q/2013 | 1Q/2014 |
|-----------------|---------|---------|---------|
| Business Unit: | | | |
| Refinery | 3 | 3 | 3 |
| Aromatics | 14 | 5 | 3 |
| Olefins and | 30 | 24 | 24 |
| Derivative | 30 | 24 | 24 |
| Green | 8 | 10 | 4 |
| HVS | 4 | 1 | 3 |
| Average | 12 | 8 | 8 |

Business Environment and Operations Recap







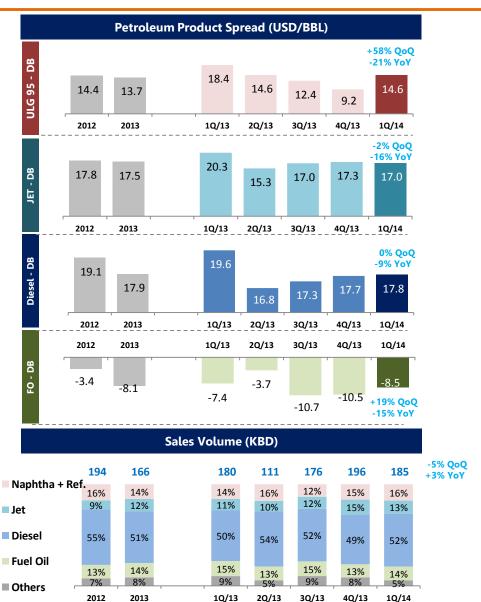
- Dubai crude reduced from average at 106.8 \$/BBL in 4Q/13 to average 104.5 \$/BBL in 1Q/14 from higher non-OPEC supply despite the unrests in oil producing countries.
 Therefore, contributing to Stock loss (Net NRV) of 575 MB
- FX Gain amounting to 602 MB, from Baht appreciation from end 4Q/13 at 32.95 Baht/USD to end 1Q/14 at 32.58
 Baht/USD
- Aromatics price dropped while Olefins and Refinery improved
 - Diesel-Dubai 17.8 USD/BBL -9% YoY 0% QoQ
 FO Dubai -8.5 USD/BBL -15% YoY +19% QoQ
 PX-Cond 387 USD/Ton -42% YoY -23% QoQ
 BZ-Cond 380 USD/Ton -12% YoY +10% QoQ
 HDPE 1,554 USD/Ton +5% YoY +1% QoQ
 MEG 1,182 USD/Ton -8% YoY -2% QoQ
- Overall utilization rate of major businesses

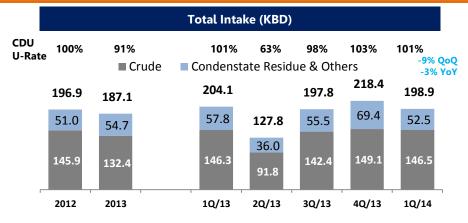
| | 1Q/13 | 4Q/13 | 1Q/14 | YoY % + /(-) | QoQ % + /(-) |
|----------------------------------|-------|-------|-------|-----------------|-----------------|
| Refinery CDU Utilization (%) | 101 | 103 | 101 | +0 | -2 |
| Aromatics BTX Utilization (%) | 92 | 93 | 91 | -1 | -2 |
| Olefins Utilization (%) | 97 | 93 | 77 | -20 | -16 |
| Polymers Utilization (%) | 109 | 111 | 99 | -10 | -12 |
| EO Based MEG Utilization (%) | 97 | 86 | 65 | -32 | -21 |
| Green ME Utilization (%) | 101 | 137 | 111 | +10 | -26 |
| FA Utilization (%) | 132 | 125 | 113 | -19 | -12 |
| Phenol Utilization (%) | 126 | 130 | 78 | -48 | -52 |

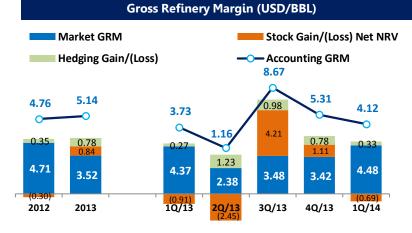
*Source: BOT Selling Rate 6

Refinery Performance Improved Mkt GRM









| | 2012 | 2013 |
|------------|------|------|
| Market GRM | 4.71 | 3.52 |
| GRM on CRS | 2.97 | 2.87 |
| GRM on CDU | 5.84 | 4.37 |

| 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
|-------|-------|-------|-------|-------|
| 4.37 | 2.38 | 3.48 | 3.42 | 4.48 |
| 3.08 | 2.38 | 2.90 | 2.98 | 2.85 |
| 5.50 | 2.73 | 4.31 | 4.31 | 5.52 |

1Q/13

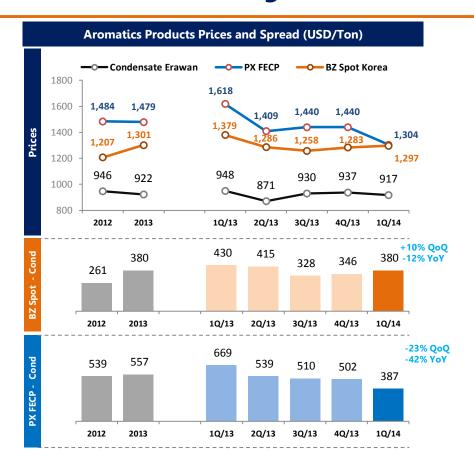
2Q/13

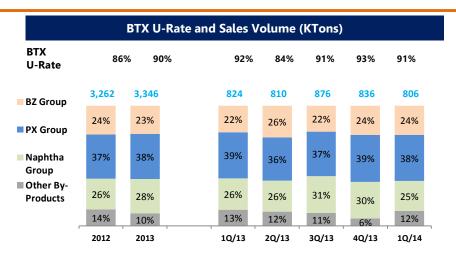
3Q/13

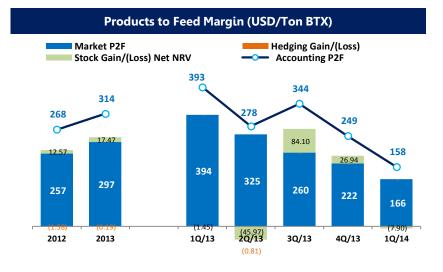
2012

Aromatics PerformanceSoften PX hitting hard on Aromatic Business





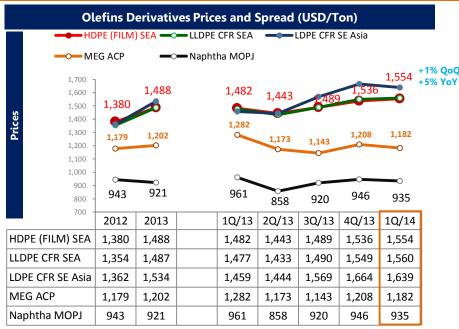




Olefins and Derivatives Performance



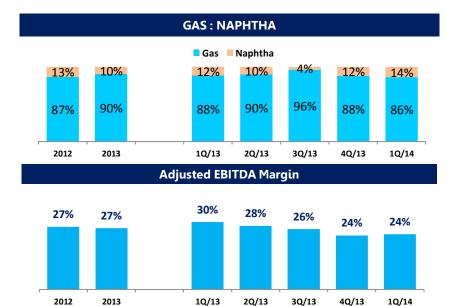
Strong HDPE Price but impact from shutdown and soften MEG



| HDPE - Naphtha | 436 | 566 | | 521 | 585 | 568 | 590 | +5% QoQ +19% YoY 620 |
|------------------------|------|------|---|-------|-------|-------|-------|----------------------------|
| | 2012 | 2013 | | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
| Ethylene | 379 | 323 | | 375 | 351 | 284 | 281 | -13% QoQ -35% YoY |
| MEG ACP – 0.65Ethylene | | | _ | | | _5. | | 245 |
| MEG A | 2012 | 2013 | | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 10/14 |

| U-Rate (%) | | | | | | | |
|------------|------|------|-------|-------|-------|-------|-------|
| | 2012 | 2013 | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
| Olefins | 88% | 90% | 97% | 93% | 75% | 93% | 77% |
| HDPE | 99% | 106% | 109% | 96% | 106% | 113% | 93% |
| LLDPE | 100% | 103% | 113% | 72% | 113% | 114% | 99% |
| LDPE | 88% | 76% | 101% | 99% | 5% | 101% | 115% |
| MEG | 88% | 94% | 97% | 100% | 92% | 86% | 65% |

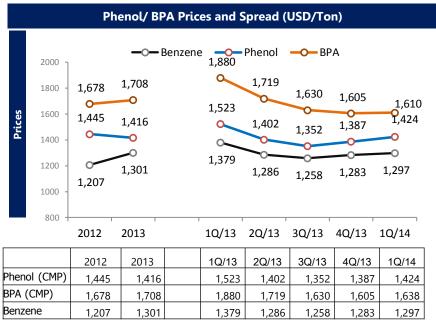
| Sales Volume (KTons) | | | | | | | | |
|----------------------|-------|-------|--|-------|-------|-------|-------|-------|
| | 2012 | 2013 | | 1Q/13 | 2Q/13 | 3Q/13 | 4Q/13 | 1Q/14 |
| Olefins | 748 | 756 | | 200 | 218 | 147 | 190 | 134 |
| HDPE | 778 | 834 | | 216 | 193 | 208 | 217 | 202 |
| LLDPE | 396 | 397 | | 102 | 70 | 119 | 107 | 98 |
| LDPE | 273 | 218 | | 75 | 71 | 25 | 47 | 72 |
| MEG | 249 | 372 | | 83 | 104 | 95 | 89 | 71 |
| Total | 2,445 | 2,577 | | 676 | 657 | 594 | 650 | 578 |

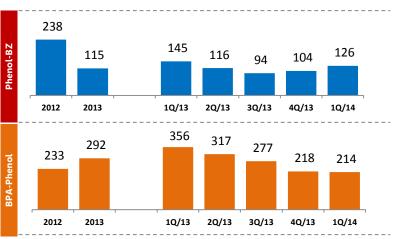


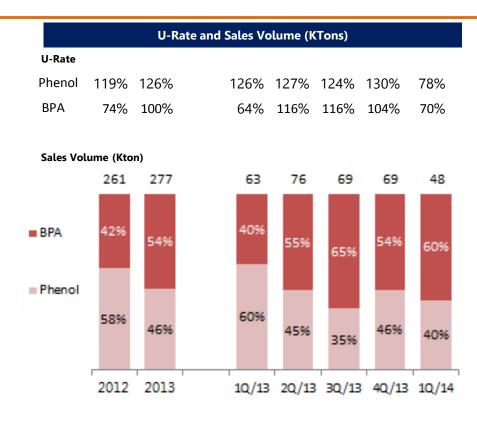
Phenol and BPA Performance



U-rate Drop from Planned Shutdown





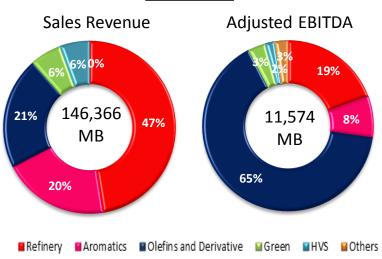


Overview of Business Units' Performance



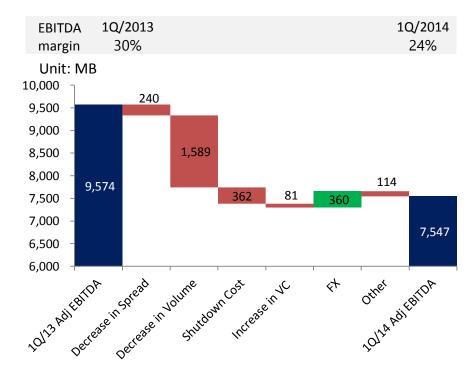
Drop in Olefins and Derivatives' Margin

1Q/2014



| % EBITDA Margin | 1Q/2013 | 4Q/2013 | 1Q/2014 |
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Change in Olefins and Derivatives adj. EBITDA

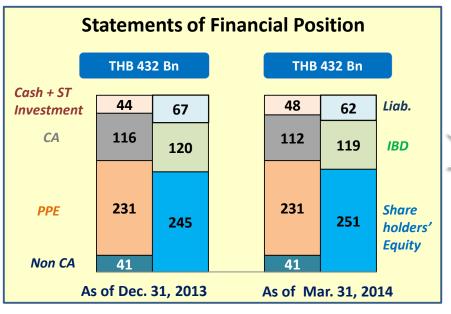


| | YOY Price +/- % |
|----------|--------------------|
| Ethylene | 3% |
| HDPE | 5% |
| MEG | -8% |

| | YOY Volume |
|---------|------------|
| | +/- % |
| Olefins | -33% |
| PE | -5% |
| MEG | -15% |

Strong Financial Position







| Interest Rate | Currencies |
|---------------|-------------------|
| 64 % Fixed | 52 % THB |
| 36 % Float | 48 % USD & Others |

- Cost of long term debts ~ 4.79% (Include W/H Tax)
- Average loan life after refinancing 4.88 Years

Treasury policy

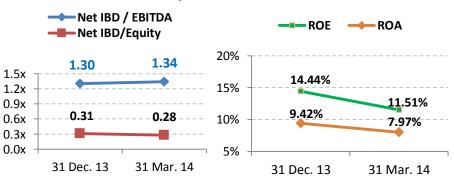
Net IBD to Equity ratio of $\leq 0.7x$ Net IBD to EBITDA ratio of $\leq 2.4x$



THB Bn ■ PTTGC ■ PPCL ■ Others 32.63 15.36 14.93 14.43 11.76 9.86 8.94 7.83 0.68 0.28 2014 2015 2016 2017 2018 2019 2020 2021 2023

Key Financial Ratios

Key Financial Ratios



* After Refinance

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Strategic Direction



Listed in

EXCELLENCE EXECUTION

- Excellence program EBITDA uplift as of 1Q/14
- Debottlenecking projects construction progress

- JV plan on schedule
- Business direction for International Businesses

- R&D Center Progress
- Integration of Technology/Knowhow

CORE UPLIFT PROJECTS



Debottlenecking

Synergy Excellence

Marketing Excellence

Operational Excellence



NEW GEOGRAPHIES

ASEAN: Pertamina CHINA: Sinochem

NEW PRODUCTS

System House: Compounding: PC, PU, Nylon 6-6



Globally 1st Quartile Sustainability Performance Index **ROIC > 14% EBITDA** Uplift 15-30% (2012-2017) **GREEN KNOW** R&D HOW Center Olechemicals PLA **Succinic Acid PLA/PBS Compound**

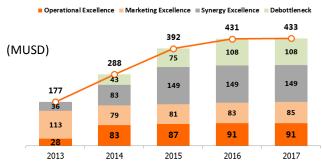
Excellence Programs Update 1Q/14 EBITDA UPLIFT



Core Uplift 1-Step Adjacencies Green Busines

| Excellence Programs | 2014 Target (MUSD) | 1Q/14 Actual (MUSD) |
|--|--------------------------|---------------------------|
| Synergy Excellence - Heavy Gas (Offgas) - Pure H2 via PSA - C3/C4 Stream - 3 Streams (Heavy Gasoline, LCB, CB) - Heavy Aromatics | 83.0 | 6.5 |
| Marketing Excellence - Customer Portfolio Management - Product Development - Pricing Excellence | 80.0 | 20.4 |
| Operational Excellence - Total 42 projects in 2014 - 29 Energy Saving Projects - 7 Plant Reliability Projects - 6 Cost Reduction/Optimization Projects | 31.0 | 6.4 |
| Total | 194.0 | 33.3 |

Original Target

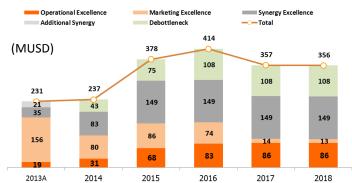


* Debottleneck EBITDA uplift includes 1Q/14 BV project starts up 3Q/15 TOCGC Plant Improvement Project 4Q/15 PX Expansion starts up

Not Including PTTPE Cracker Debottlenecking and LLDPE Expansion

Adjusted Target

- Revised Operational Excellence target
- · Include only projects passed stage gates



Excellence Programs Updates Execution of Core uplift Projects according to Target



Core Uplift 2013 2014 2015 - 2018 Synergy Construction **Target COD:** Pure H2 via New PSA **Progress at 97.0%** 2Q/14 Construction Target COD: Off Gas upgrading at Progress at 45.16% **Olefins** 4Q/14 Seek for additional and opportunities Synergy Benefits **Expected** Increase CAPEX **EBITDA Uplift Debottlenecking &** Capacity (MUSD) (MUSD) **Expansion BV Project Butadiene +75 KTA Target COD:** 262 58 Construction Butiene-1 +25 KTA 2Q/14 **Target COD: TOCGC Plant BOD approved EPC Construction** 94.2 **EOE** +90 KTA 16 3Q/15 + Construction Progress at 27.6% **Improvement Project** PX +115 KTA **Target COD: BOD** approved **EPC** Construction **PX Expansion** 34 128.8 **BZ + 35 KTA** 4Q/15 + Construction Progress at 11.94% OX + 20 KTA**Target COD:** Phenol +250 KTA **BOD** approved **EPC** Construction 348 **IRR 17% Phenol 2 Project** 3Q/15 Progress at 50% Acetone +155 KTA + Construction **PTTPE Cracker BOD** Target: 12% Olefins **BOD** approved **BEP** 285 Construction approve 2016 Debottlenecking Increase Integrated Project **EPC** IRR BOD 17-20% **BOD** approved Target: **New LLDPE** 272 **LLDPE Expansion BEP** Construction approve 2017 Project +300 KTA **EPC**

Compounding Strategy Serving the Customers' Needs



New Products

New Geographies

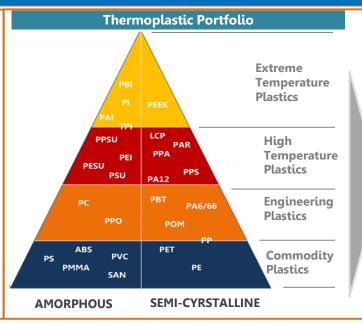
Core Uplift 1-Step Adjacencies Green Busines

Business Direction

Polymer Producers Forward Integration

- 1. Seeking for Business Partner by JV/Acquisition
- 2. In-house R&D development





Compounding New Application

Compounding

Blending two or more types of polymers together

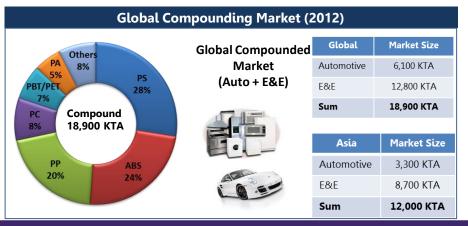
Commodity Compounding

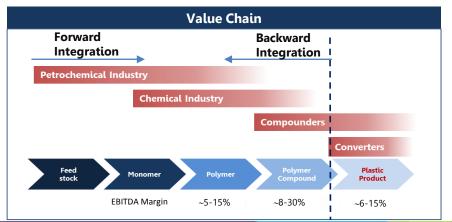
Using additives and modifiers to result with a particular color, texture, strength, and etc.

Backward Integration

Customers

- 1. Seeking Business Partner by JV/Acquisition
- 2. Market Back Development
- 3. Compounding
 - PC, ABS, PC/ABS
 Nylon 6 Nylon 66,
 PE, PP, PS, PPE,
 PPS, PVC, PBT/PET





Vencorex Business Directions



Focusing its activities toward specialty Isocyanates

New Products

New Geographies

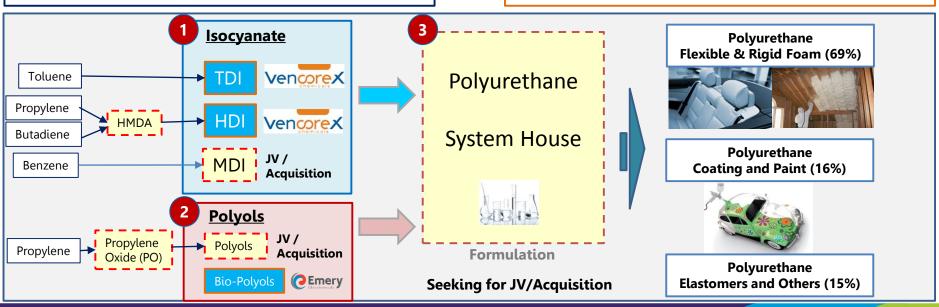
Core Uplift 1-Step Adjacencies Green Business

Rationale of Investment 51% 49% Perstorp WINNING FORMULAS Transaction: Investment transaction completed on May 31, 2012 51% stake − Investment capital to £121 million

Objective:

- To step into HVS (PU Chain) by using the technology and knowhow (TDI & HDI) from Vencorex
- Maintain existing business and expand business in Asia
- Forward integration into downstream

Business Directions 1. Expand and enhance HDI Converting TDI to HDI **Business** 2. Continue R&D for TDI and **HDI Derivatives 24 KTA HDI Process Improvement HDI Derivatives 11 KTA** 3. Utilizing TDI technology in Freeport, Texa Asia where demand is **HDI Derivatives** growing **HDI Derivatives** 4. Stop TDI Production in France from maturing market Integrated Isocyanates 5. Seek for Business Partner of Facility ASEAN Isocyanates & PU to expand & China the Business in Asia



Transformation of Myriant to PTTGC's Biotechnology R&D Center



Core Uplift 1-Step Adjacencies Green Business



 Located in Boston, Massachusetts which fully equipped with R&D Resources and Facilities

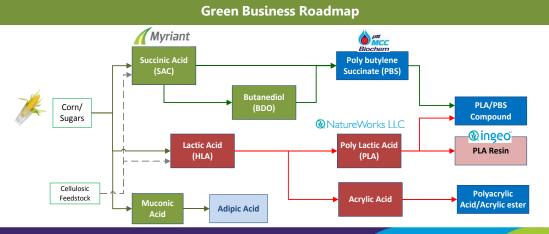


Applications

Market

From R&D





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2014 Market Outlook



Crude

- □ IEA forecasted demand of crude increase 1.3 mbd supported by gradual economic recovery led by Europe and the US.
- Expects Dubai price to maintain around 104.2 USD/bbl for year 2014
- Increase in supply from US shale gas, while sanction measure in Iran and Libya ease.
 Net crude supply additional of 1.4 mbd, pressuring crude price.

Aromatics

- BZ spread will maintain from last year despite higher capacity addition.
- PX spread soften from addition supply while demand laggard.

Ethylene, Polyethylene, and MEG

- Ethylene price should maintain at a high level from short of supply
- Polyethylene price will remain at high level in 2014 from constant demand for commodity plastics.
- MEG's margin is expecting to improve in 2H/2014 due to many plants in Asia and ME will shutdown for annual maintenance



Thank You

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