

Public Company Limited

Opportunity Day

5 March 2014



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Agenda



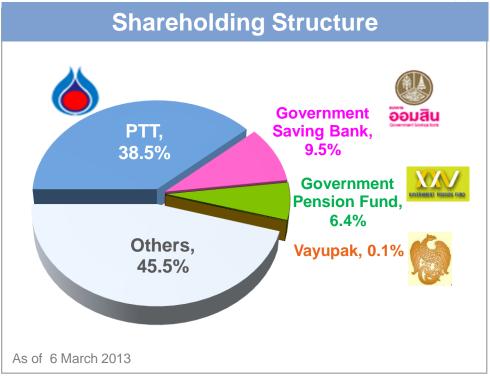
- I. IRPC in Brief
 - II. 2013 Highlights
 - III. Operation & Financial Performance
 - IV. Industry Outlook
 - V. Strategic Direction



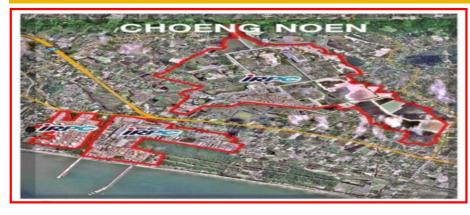
Introduction to IRPC



	Company Profile
1978	 Incorporated as TPI with initial paid-up capital of THB 300 million
1995	 Listed on SET following an IPO, raising \$367 million
1997	Asian crisis began and declaration a debt moratorium
2005	 Successfully recapitalized and 61.5% of stake were taken by MOF through PTT and other government- related bodies
2006	Exited from the rehabilitation in April 2006
2013	 Registered Capital: 20,475 million shares Paid-up Capital: 20,434 million shares Foreign Limit <=49% Dividend Policy >= 25% Market Cap. THB 66.02 billion (Ranked 38th)
As of 20	February 2014



IRPC Strategic Location



- Fully integrated from upstream to downstream in a single complex
- In the Eastern Seaboard Area of Thailand, 200 Km. from Bangkok and 30 Km. from Map Ta Phut
- Proximity to various transportation routes
 - Deepest sea port in Thailand
 - Major coastal highway (Sukhumvit Road)

Current Key Assets and Their Contributions



Average net sales 2011 - 2013: THB 267,835 Million Revenue/ EBITDA/Asset* Capacity 215 KBD, Thailand 3rd largest oil refinery The largest lube base oils and asphalt production in Thailand with Refinery 320 KTA Consist of upstream through downstream products: - Olefins: HDPE, PP 22% **Petrochemical** - Styrenics: ABS, PS, EPS - Aromatic: Toluene, Mix-xylenes, Benzene **Deep Sea Port** - The deepest sea port in Thailand with 2 Jetties: liquid and dry port - Accommodate Very Large Crude Carriers ("VLCC") up to 250 Kdwt 0.5% **Deep Sea Port** Tank farm (299 tanks) - Chemical 140 million liter / Petroleum 2,000 million liter / Lube Base Oil 300 million liter **Power Plant** -New 220 Megawatts gas-fired power plant to reduce environmental

Asset Management





- impact to community
- -Existing 108 Megawatts coal & gas-fired power plant
- -Supply both steam and electricity

Land & Estate

- Rayong 12,202 Rai / Others 3,559 Rai

Refinery and Petrochemical Complexes



BUSINESS CORE

INFRASTRUCTURE

Refinery

Crude Distillation Unit 215 KBD

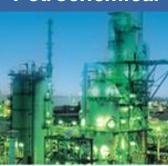
Reformer 14.4 KBD

Hydro desulfurizer 24.9 KBD

Lube Base Unit 33 **KBD**

Deep Catalytic Cracking 18 KBD

Petrochemical



Propylene 412 KTA

KTA Ethylene 360

ABS/SAN **KTA** 177

PS 100 KTA

EPS 30 **KTA**

HDPE KTA 140

PP 475 KTA

Utilities



Power Plant

- Electricity 342 MW - Steam 620 T/hr

Demin. Water 1.050 m3/hr **Water Filtration** 4,000 m3/hr

15,000 Nm3/hr Nitrogen

Compressed Air 68,450 Nm3/hr

Land



Total

~ 12.000 rai (4,700 acre)

Available for sale ~ 7,000 rai (2,700 acre)





- **Bulk & Container Port** 100,000 DWT
- **Liquid & Chemical Port** 250,000 DWT

Tank



- Chemical 140 mio.L
- Petroleum 2,000 mio.L
- Lube Base Oil 300 mio.L

INDIRECT SUPPORT

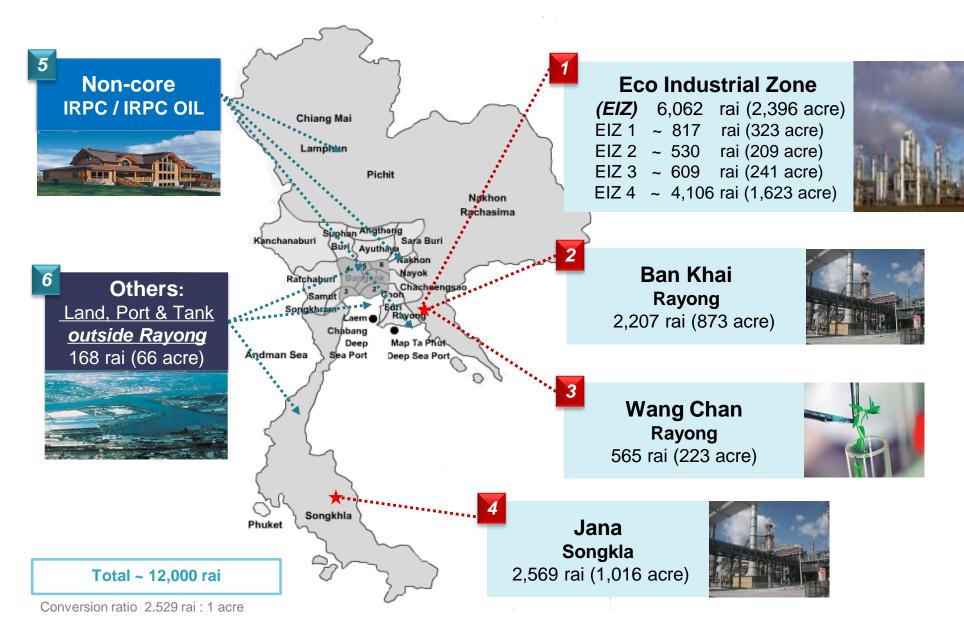


IRPC Technological College

2,000 Students

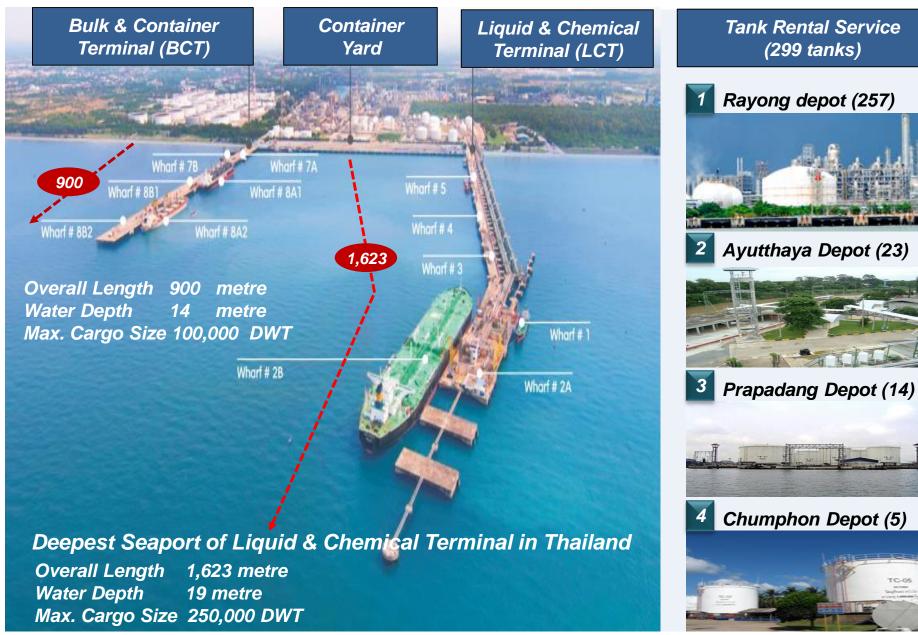
Ideal Assets for Adjacent Business: Land & Port





Ideal Assets for Adjacent Business: Land & Port





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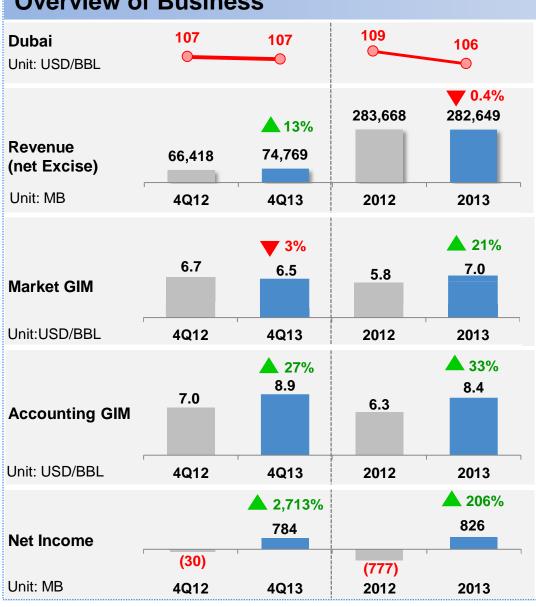
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2013 Overview







- 1. In 2013, average Dubai price dropped to \$106/bbl from \$109/bbl in 2012 largely influenced by US budget and debt ceiling battle, Shale Oil production, and easing of geopolitical tensions.
- 2. Net sales were 282,649 MB, slightly declining from 2012, by 0.4%, due to a decrease of 6.7% in the product prices and an increase of 6.3% in the sales volume.
- 3. The Market GIM was \$7.0/bbl increasing from \$5.8/bbl in 2012 caused by the use of domestic crude and better petrochemical product spreads.

The Accounting GIM in 2013 rose to \$8.4/bbl from \$6.3/bbl in 2012.

4. Net profit was 826 MB in 2013, compared to net losses of 777 MB in 2012.

2013 Highlights

Asset Utilization Enhancement





- 1. In November 2013, ~ 3,312 Rai of land located in Wang Chan district, Rayong province was sold for 596 MB.
- 2. In December 2013, 51% of total share in IRPC Clean Power Company Limited was purchased by Global Power Synergy Company Limited for 709 MB.

Projects

UHV Project

Progress: 52% Under construction, piling and foundation





- 1. As of 31 December 2013, 59% overall progress of Phoenix Projects
- 2. UHV: 52%; Construction phase started; COD expected in 3Q15







Outstanding Achievement in 2013







- Continuously implemented Zero Unplanned Shutdown" &"Operational Excellence" program with collaboration in PTT Group
- Increased plants efficiency & no serious injures throughout the year 2013



- Developed BHD, a premium-grade bio-diesel
- Installed Mercury Removal Unit, enable IRPC to process higher mercury crude
- Managed Hydrocarbon Loss: Save 594 MB per year from hydrocarbon loss dropping from 0.86% to 0.53%

Marketing



- Penetrated into ASEAN market to get ready for AEC
- Increased sales to ASEAN countries from 15% in 2012 to 20% in 2013



- Expanded "IRON System" to more than 80% of customers to improve customer ordering system
- Collaborated with financial institutions to implement "E-Supply Chain", reducing risk of payment error from customers

Outstanding Achievement in 2013







- Multi Product Pipeline (Diesel 10KBD, Jet 15KBD) between PTTGC and IRPC allowed the two companies to exchange streams to create more synergy.
- EBSM Upgrading for ABS Specialties project increased production capacity of styrene monomer (SM) from 200 KTA to 260 KTA.
- Oil Depot and Lube Blending expansion increased lube blending capacity from 1 million litres/month to 6 million litres/month.





Innovation

- More than 160 of innovation works in 2013. Here is just few examples of our unlimited creativities.
 - 1) PE Compound for "Geo-membrane"
 - 2) PP for High Speed Raffia
 - 3) PP Compound for Synthetic Rattan Fire Retardant
 - 4) Low Gas Emission Reinforcement PP
 - 5) Halogen Free HIPS/PP for Electronic Application
 - 6) Polyethylene Catalyst Development

- 7) Wood Plastic Composite (WPC)
- 8) Advanced HA2PO Catalyst for Ultra High Molecular Weight Polyethylene (UHMWPE) Production
- 9) Anti-dripping genX (non PFOA) graft latex
- High gloss stability by using EBS in HG730 to increase process ability and gloss stability
- 11) High stiffness and high clarify PP Extrusion PP 1150H
- 12) High flow high clarify Random Polypropylene 3342S

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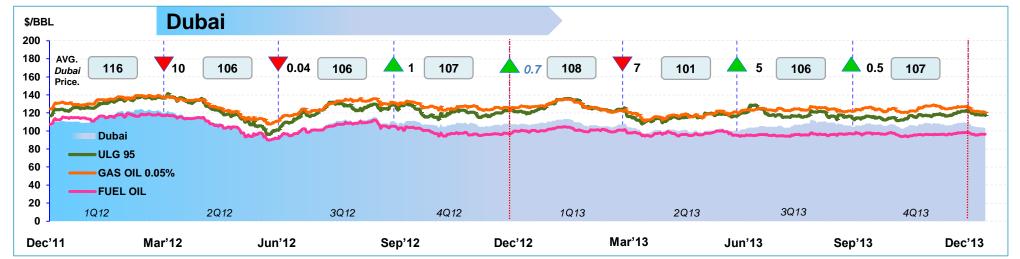


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Mixed Performance of Petroleum Spread







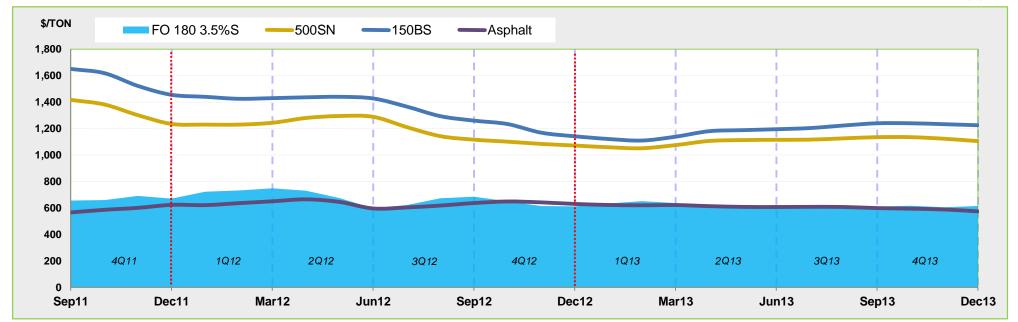
- Crude oil price was relatively elevated in 4Q13 supported by decline in the US crude inventory, extended political turmoil, but faced downward pressure from QE3 tapering.
- ULG spread declined because of weaker demand from Indonesia and Vietnam, and an increase in the supply from refineries in Taiwan and China.
- Gasoil spread rose from the previous quarter due to a rise in the seasonal demand from Asia, ME and Africa combined with a decline in the exports from India due to the unplanned shutdown.
- FO spread remained unfavorable since the demand from marine logistic sector continued to be weak.

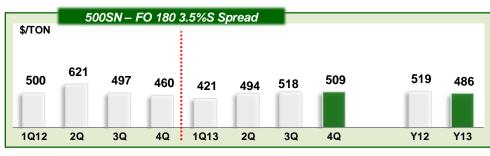
Note: Starting Jan-13 onward Gas oil 0.05%s is used instead of Gas oil 0.5%s. For comparison purpose, historical data is re-stated based on Gas oil 0.05%

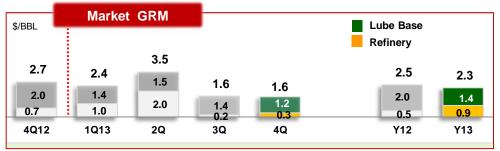
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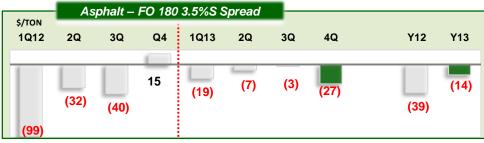
Sliding Lube Base Oil Spreads







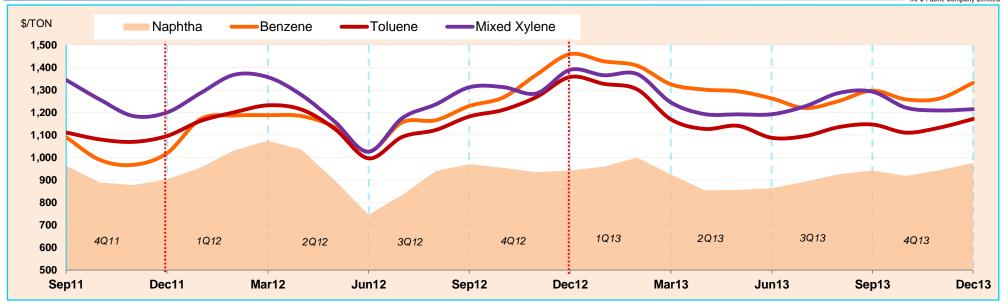


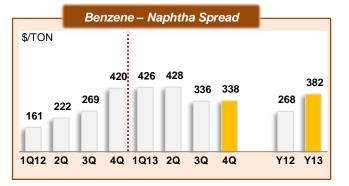


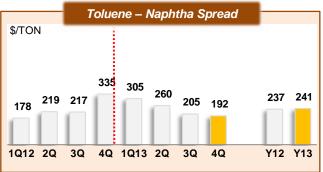
- Lube base oil spread was stable as the demand was seasonally sluggish towards the end of year. Moreover, there was an increase in the export of from Russia to Asia.
- Asphalt spread declined significantly because of a demand decrease from Indonesia, Malaysia, and Vietnam.

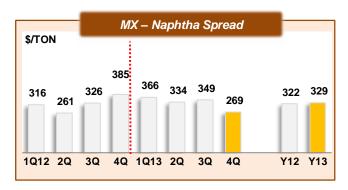
Weaker Aromatics Spread







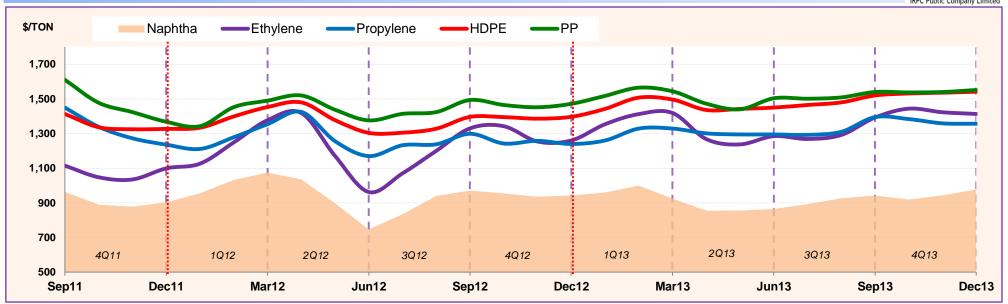


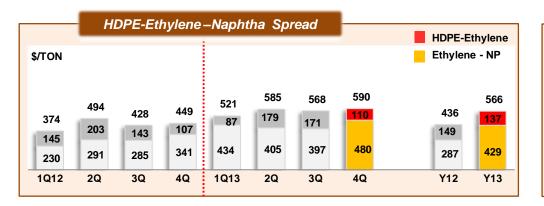


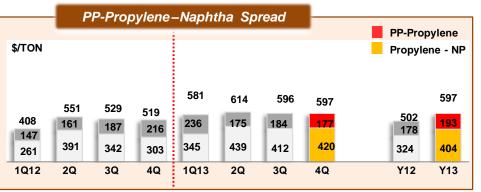
- Toluene spread weakened as the demand from gasoline blending remained weak. Moreover, the demand for toluene as a feedstock in China and India also dropped.
- Mixed-xylene significantly deteriorated due to a decrease in the demand for polyester, thereby adversely affecting the demand for paraxylene and mixed-xylene.

Rising Olefin Spread





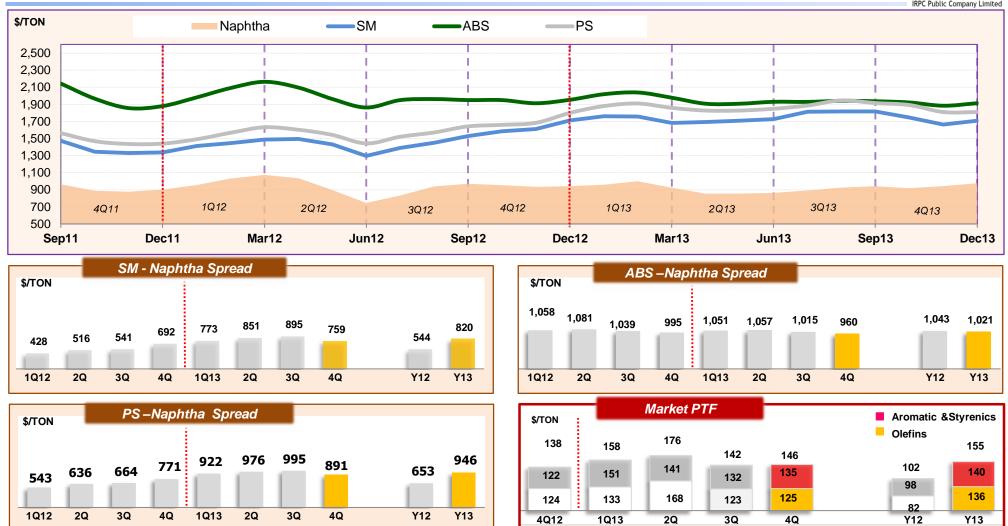




Polyolefin spreads were solid. The prices of HDPE and PP continued to surge on cost push pressure. Moreover, supply from ME to Asia decreased due to disrupted production.

Declining Styrenics Spread

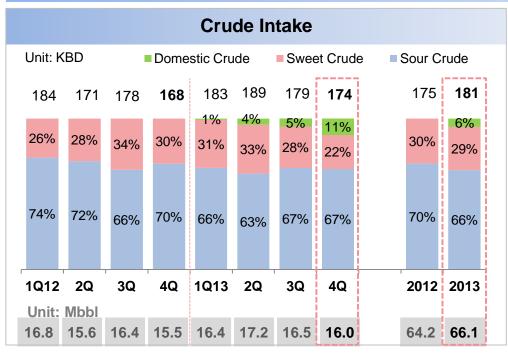




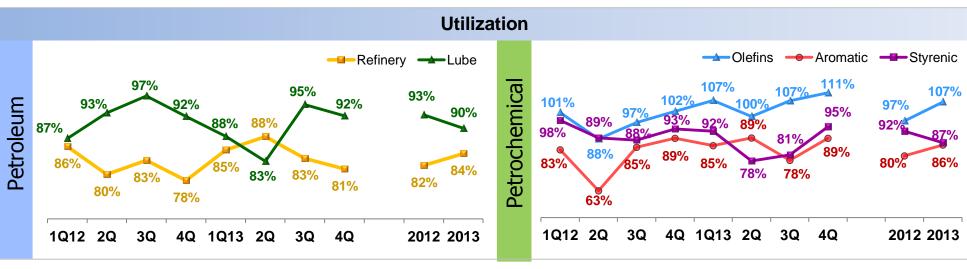
- PS spread retreated since PS price declined in line with the styrene monomer, driven by SM plants returning from unplanned shutdown. Moreover, the PS demand also declined seasonally.
- ABS spread fell because of a drop in the ABS price, which was in turn caused by its weak demand, while naphtha price rose.

Increased Domestic Crude Intake



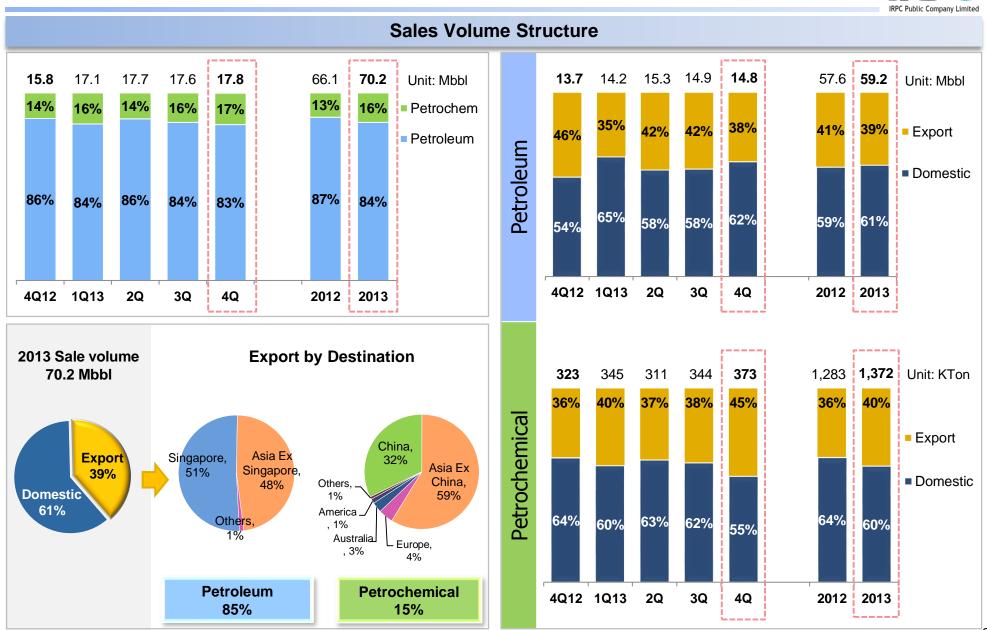


- Crude intake rose to 181 KBD, up 3%.
- Domestic crude intake amounted to 10 KBD or 6%.
- Lube utilization rate was 90%, down 3% due to maintenance shutdown in 2Q13.
- Aromatic utilization rate was 86%, up 7%.
- Styrenic utilization rate was 87%, down 5% because of a shutdown in the EBSM unit due to tie-in of expanded plant facility in 3Q13.



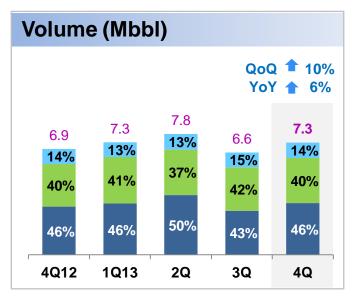
Focus on Domestic Market

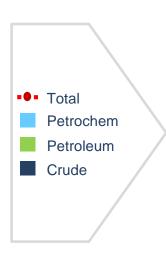




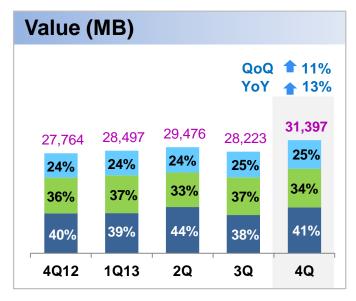
Maintain Efficient Inventory Turnover in 2013

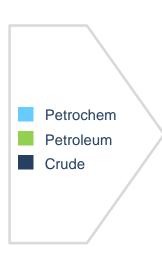


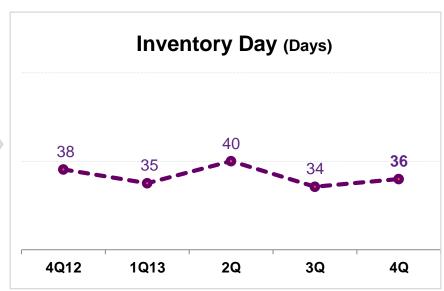








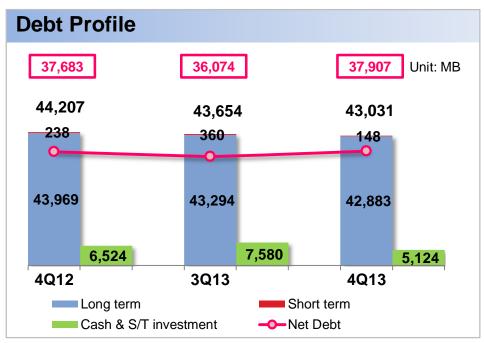


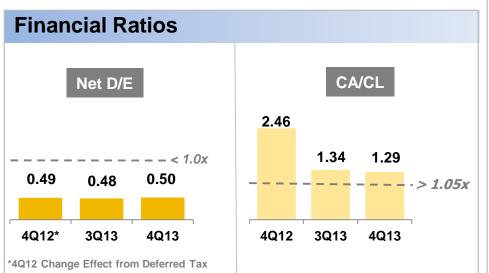


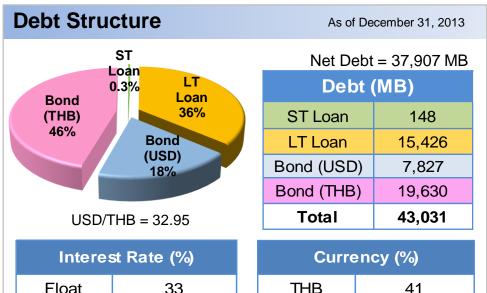
4Q13 Debt Portfolio



59





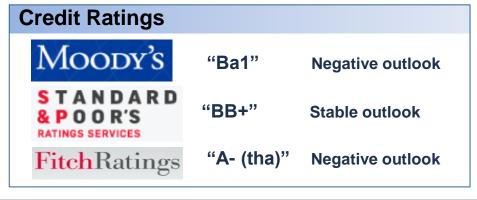


	4Q12	3Q13	4Q13	Y12	Y13
Cost of Debt	4.20%	4.04%	4.12%	4.45%	4.09%

67

Fixed

USD



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Crude Oil and Petroleum Products Outlook



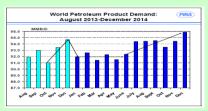
Key Products	Price (2013)	Spread (2013)	2014 Outloo
Refinery	(\$/bbl)	(\$/bbl)	
Dubai	106		\Leftrightarrow
ULG95	119.2	13.7	\Leftrightarrow
GAS OIL 0.05%	123.4	17.9	
FO	97.5	(8.0)	1

Driving Determinants

 Global oil demand grows by 1.31 MBD but supply disruption in ME may be eased but by no means certain. The crude oil price is expected to be above \$100 per barrel.



 Slightly Petroleum product cracks improve, led by middle distillate and fuel oil driven by the demand from transportation activities.



Lube Base Oil	(\$/T)	(\$/T)
500 SN	1,105	486
150 BS	1,191	572



Stable lube base oil market is expected in 2014 as the additional supply will be alleviated by scheduled shutdown throughout the year.

2014 Shutdown Schedule			
Company	Capacity (KT/Year)	Timing	
ADNOC	100	H1 2014	
Chevron	1,200	Q1 2014	
Sinopec	240	Mar-14	
SK Lubricant	660	H2 2014	

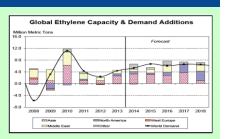
Petrochemical Products Outlook

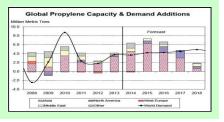


Key Products	Price (2013)	Spread (2013)	2014 Outlook
<u>Olefins</u>	(\$/T)	(\$/T)	
Ethylene	1,351	429	1
HDPE	1,487	566	—
Propylene	1,325	404	A
PP	1,518	597	—

Outlook Driving Determinants

- There is optimistic outlook for PE.
 Demand growth continues while at the same time tight supply is expected caused by heavy scheduled turnaround this year.
- Propylene supply is expected to be tight. The price is expected to be elevated since supply from onpurpose propylene is costly.

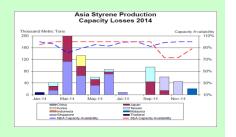




<u>Styrenics</u>	(\$/T)	(\$/T)
PS	1,868	946
ABS	1,942	1,021



- High PS price is expected. Global demand outpaces supply growth.
- Improving market for ABS, as the economic recovery in EU and US will increase the demand of automobile and electronics.



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Strategic Initiatives: Overview



Phoenix +: 2010 Onwards



- Transformation to support high value added product growth
 - CHP I
 - PRP
 - EBSM
 - UHV
- Quick specialty capacity expansion/ Grade shifts
 - TDAE
 - ABS6/SAN3
 - HDPE-Pipe Grade
 - UHMWPE

Structural Changes for Specialty Growth

Delta: 2014 Onwards



- Margin Improvement Initiatives
 - Operational Excellence
 - Commercial Excellence
 - HR Excellence
- Acceleration of Assets Utilization
 - EIZ
 - Bankai
 - Dry port
- Domestic crude use up to 35,000 Barrel per day

Quick Win Initiatives for Cost Reduction Margin Enhancement

Post-Phoenix: 2015 Onwards

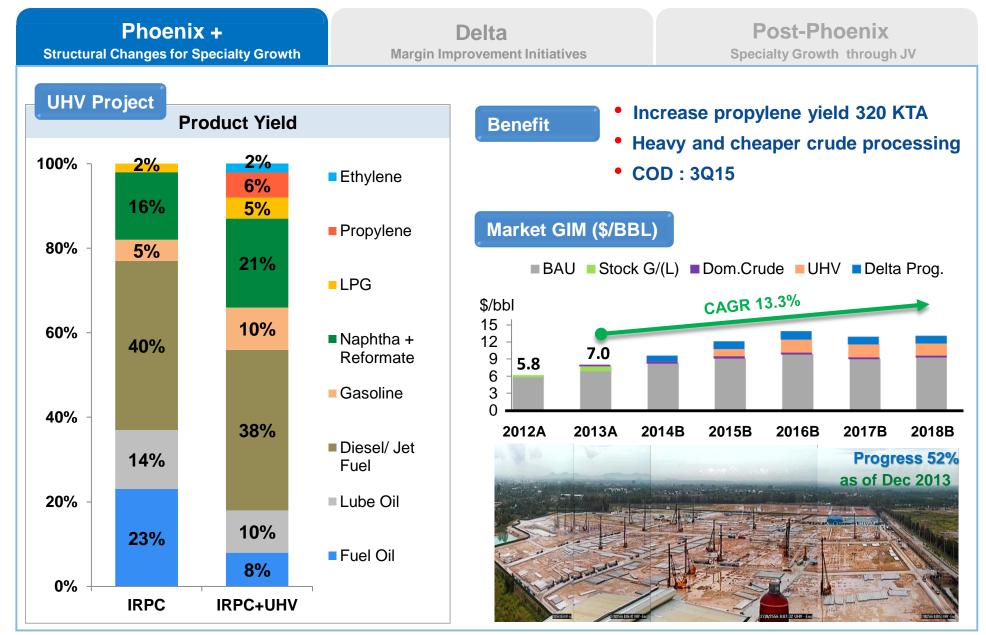


- Adding up more value to petrochemical feedstock from UHV project
- Shifting product portfolio to be specialty player through PTT Group Partnership strategy
 - PP compound
 - Polyol
 - AA/ SAP
 - PX
 - SM

Specialty Growth and
Move away from
heavy - asset company by
investing through JV

Strategic Initiatives: UHV





Strategic Initiatives: Delta



Phoenix +

Structural Changes for Specialty Growth

Delta **Margin Improvement Initiatives**

Post-Phoenix

Specialty Growth through JV

- PTT Group Operational Excellence Management System (OEMS) **Embedment**
- Value Chain Management LP Upgrading, Production Planning & Schedule Optimization
- OS SPRINGS SPRINGS SPRINGS Yield Process & Energy Optimization
- Utility System Optimization
- Reliability & Asset Integrity improvement
- QSHE

- Marketing & Sales Excellence
- Procurement Excellence
- Price Volatility Management
- Accounting & Financial Excellence

HR EXcellence

- Talent Management
- Career Path Development

İRPC

Succession Plan



Strategic Initiatives: Delta



Phoenix +

Structural Changes for Specialty Growth

Delta

Margin Improvement Initiatives

Post-Phoenix

Specialty Growth through JV





Operational Excellence

- US37M Target (incl. Overhead Cost Mgt.)
- 7 Workstreams
- KBC Support



Commercial Excellence

- US20M Target
- Workstreams TBC
- McKinsey Support



HR Excellence

- US10M Target
- 5 Workstreams
- Workstreams TBC

Strategic Initiatives: Post-Phoenix



Phoenix +

Delta

Post-Phoenix

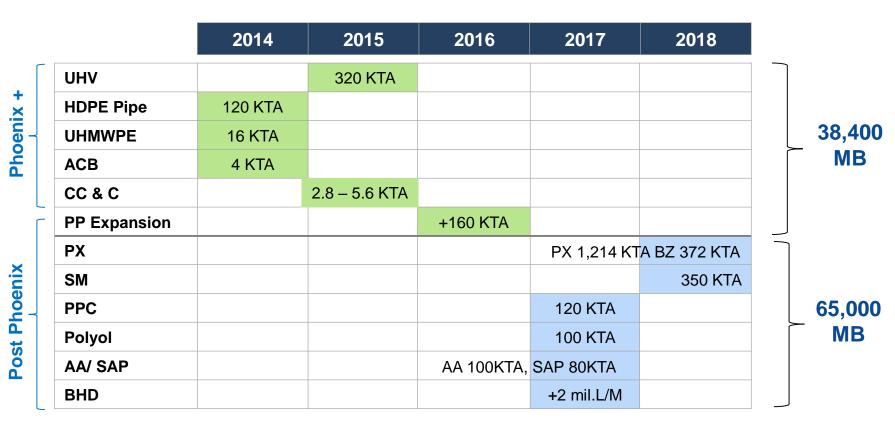
Structural Changes for Specialty Growth

Margin Improvement Initiatives

Specialty Growth through JV

On-going & Approved Project

Study Project



Strategic Initiatives: Post-Phoenix



2013

- > Crude Run 181 KBD **84%**
- ➤ Nelson Complexity Index 6.6
- Portfolio of Revenue: Petroleum/Petrochemical & Others 76% / 24%

2

<u> 2015</u>

- ✓ Crude Run 215 KBD **100%**
- ✓ Nelson Complexity Index 8.6

(PX)

UHV Completion

✓ More stable portfolio of Revenue: Petroleum/Petrochemical & Others59% / 41% 2020 ROIC 14%

Super Absorbent PP
Polymer Compound
Acrylic Acid (SAP)
Para-Xylene (AA)

8 here
DELTA
HR EXcenses

2015

2014

• Specialty for

- Specialty focus and Moving away from heavy-asset company
- Increase product value by converting fuel oil to petrochemical products
- Running at full capacity of 215 KBD

2013

Quick Win Initiatives

DELTA Initiative Implementation

IRPC

- Domestic crude usage up to 35KBD
- Assets Management (Bankai/EIZ)

Completed Project during 2011-13

- CHP I: Electricity +220MW, Steam +430T/h
- PRP +100KTA of Propylene
- EURO IV: Gasoline 15KBD, Diesel 10KBD, Jet 15KBD
- TDAE +28KTA, 150BS +25KTA
- · Lube Blending +60m.Ltrs./year
- EBSM +60KTA, ABS/SAN +60KTA

New investments through JV

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Q & A



Thank You



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