Change and Innovation

Business Strategy for the Petrochemicals& Plastics Sector

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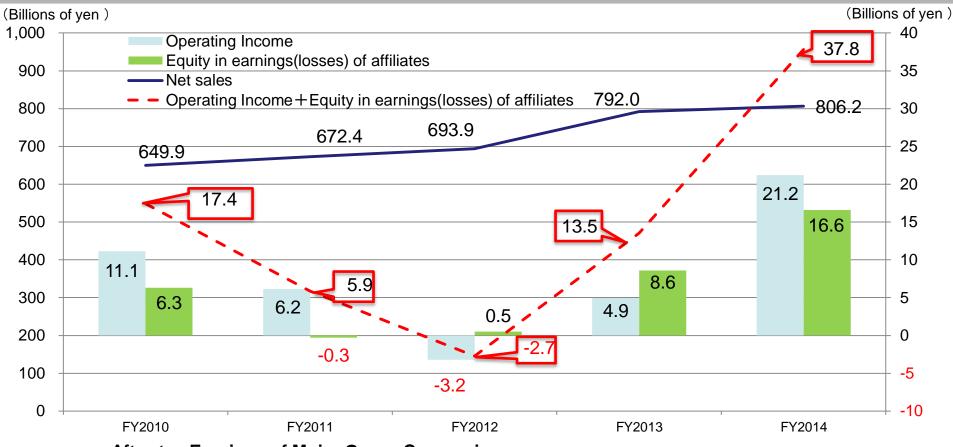
- 1. Overview of Our Petrochemicals & Plastics Business
- 2. Petrochemicals & Plastics Business Climate
- 3. Business Strategy for Each Location
 - (1) Domestic Operations
 - (2) Singapore
 - (3) Saudi Arabia
- 4. Technology Development Strategy
- 5. Final Words

1. Overview of Our Petrochemicals & Plastics Business



Consolidated Results

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After-tax Earnings of Major Group Companies

(US\$ MM)	FY2010	FY2011	FY2012	FY2013	FY2014
PCS	130	23	-60	62	121
TPC	70	49	-12	-13	40
PRC	56	18	130	96	182

(Billions of yen)

Net Sales

Operating

Income

FY2014 (Old Sector) 806.2

21.2

FY2014 (New Sector)

932.3

20.8

FY2015
Forecast
(New Sector)

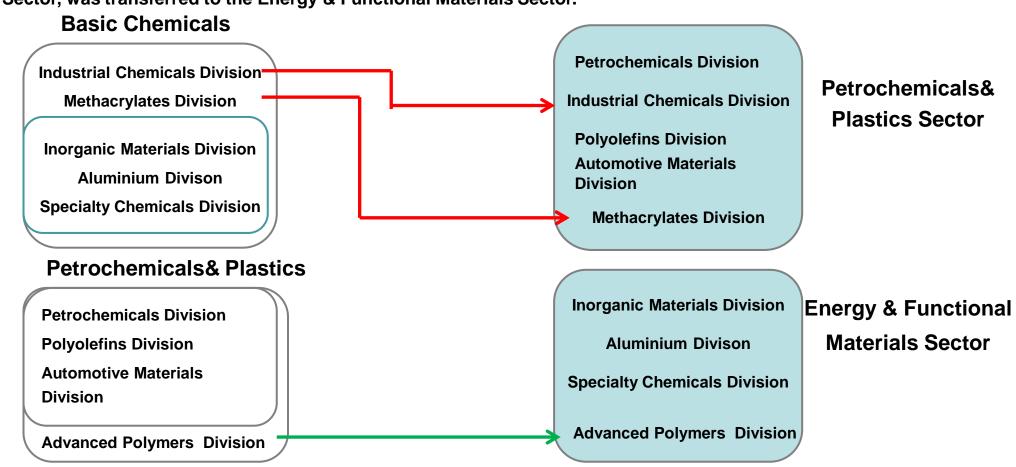
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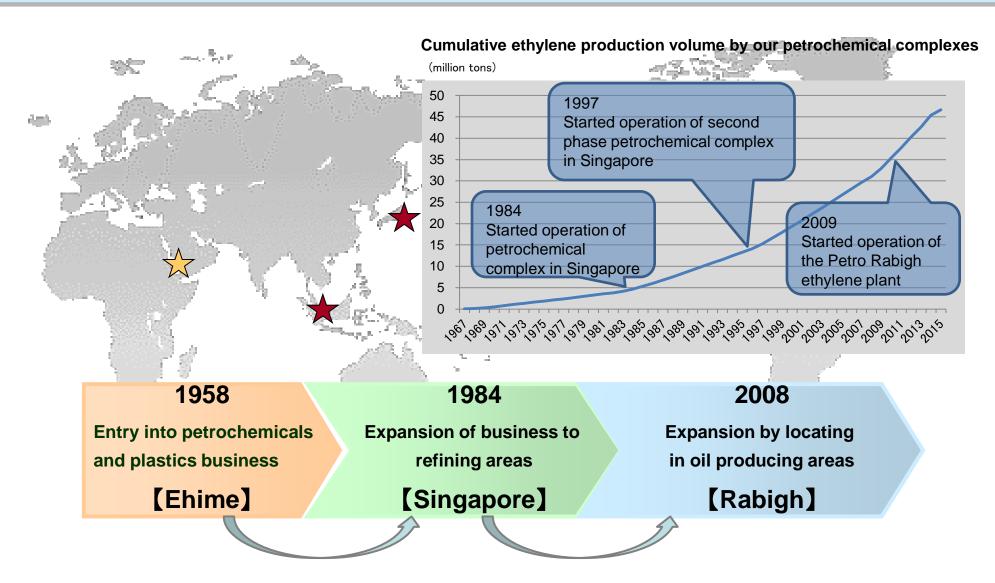
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Change in Business Sector (Effective as of April 1, 2015)

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The Basic Chemicals Sector was eliminated and businesses in this sector were split up and transferred to the Petrochemicals & Plastics Sector and the Energy & Functional Materials Sector, which was established as a new business sector. In addition, a part of businesses in the Petrochemicals & Plastics Sector was transferred to the Energy & Functional Materials Sector. Inorganic chemicals, raw materials for synthetic fibers, organic chemicals, and methyl methacrylate, which had been included in the Basic Chemicals Sector, were transferred to the Petrochemicals & Plastics Sector. Synthetic rubber, which had been included in the Petrochemicals & Plastics Sector, was transferred to the Energy & Functional Materials Sector.

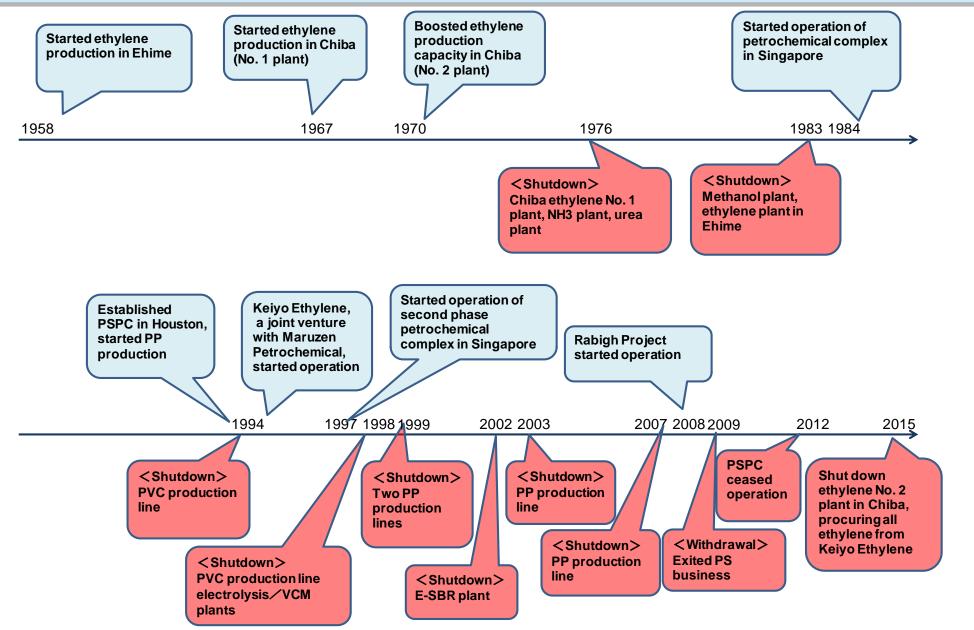




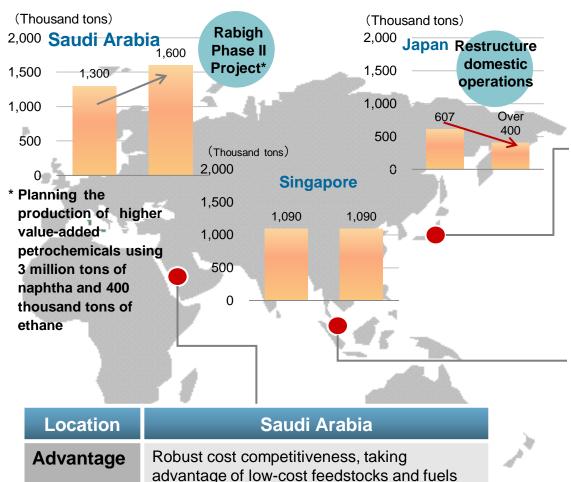
A cycle of about 25 years

History of Our Petrochemical Business (New businesses and withdrawal from unprofitable businesses)

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Ethylene production capacity by area



Maximize Petro Rabigh's profitability (achieve

Location	Japan
Advantage	"Mother plant/laboratory," leading the effort to develop high value-added new technologies, products and know-how
Priority	Restructure domestic operations (exit underperforming businesses and restructure production operations)

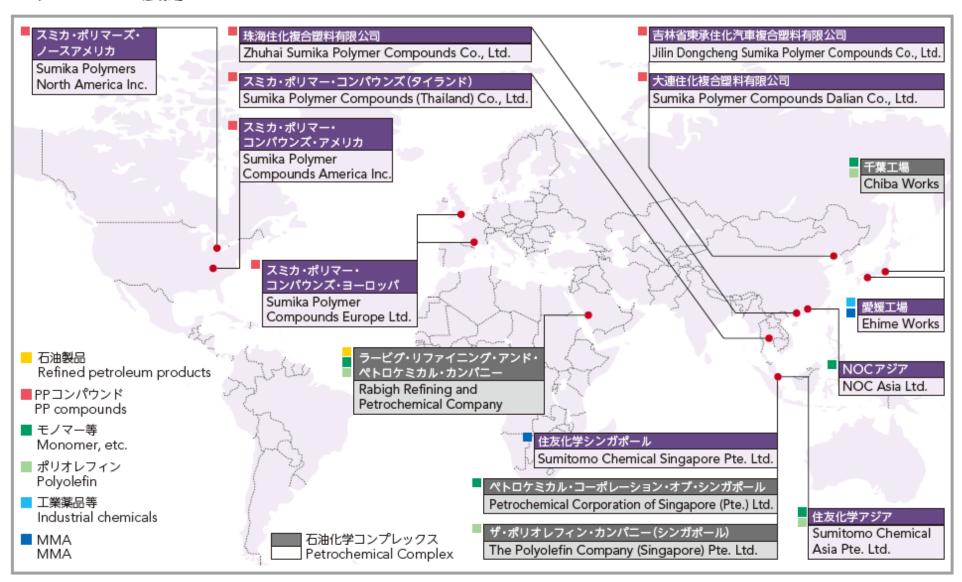
Location	Singapore
Advantage	A solid customer base and high-value added products meeting the needs of key customers in Asian markets
Priority	Strengthen competitiveness by enhancing higher value-added petrochemicals business

more stable operations)

Priority

Global Petrochemical Operations

❖ グローバル展開 Globalization

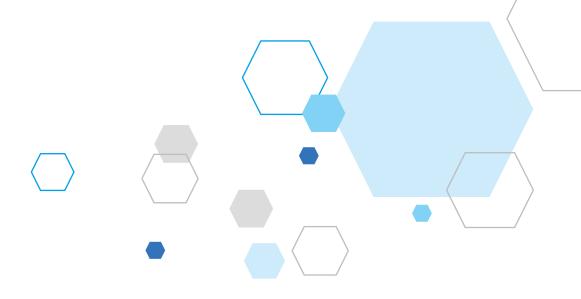


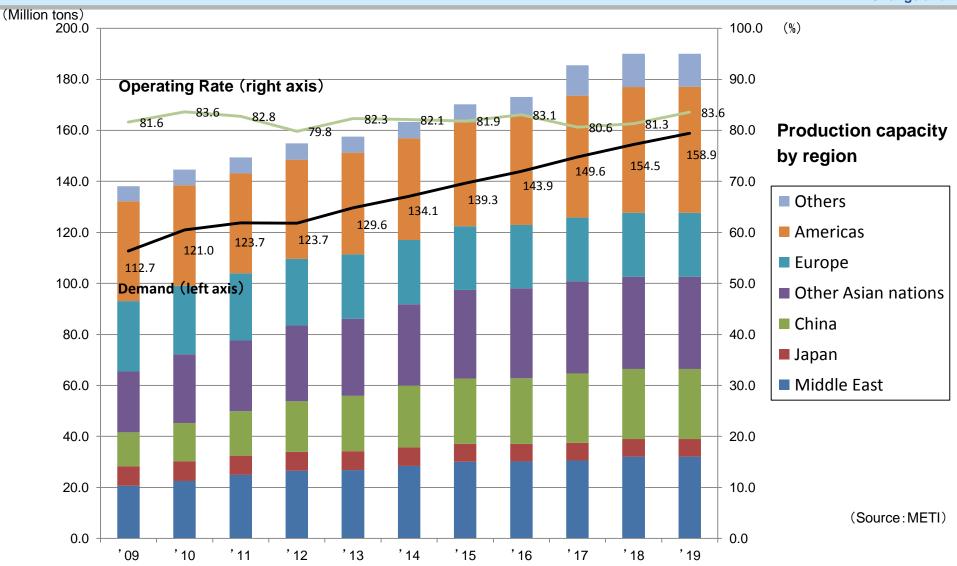
	Net Sales (billions of yen)	Japan	China	Other Asian nations	Europe	Others
FY2005	486.1	60%	20%	15%	1%	4%
FY2012	693.9	45%	25%	23%	3%	4%
FY2014	806.2	40%	25%	25%	5%	5%

 [★] Figures in fiscal 2005 were results before the launch of the Rabigh Project.

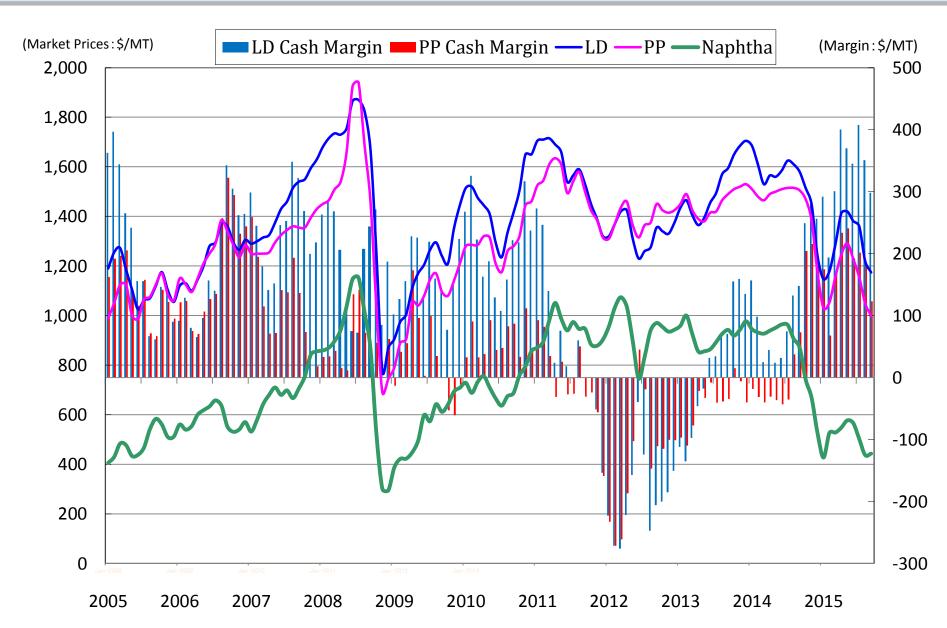
A large portion of the sales is to Asia, including Japan and China, due to having a Singapore base. Even so, there is no over-dependence on Japan and China, as significant sales to Southeast Asia and other areas have been achieved.

2. Petrochemicals & Plastics Business Climate





Overall global demand growth for petrochemicals and plastics is not going to stop any time soon. Growth trends are especially strong in newly emerging economies.



A number of uncertainty factors can be seen currently.

- 1. Drop in crude oil prices
- 2. Slowing of growth in China

1. Drop in crude oil prices

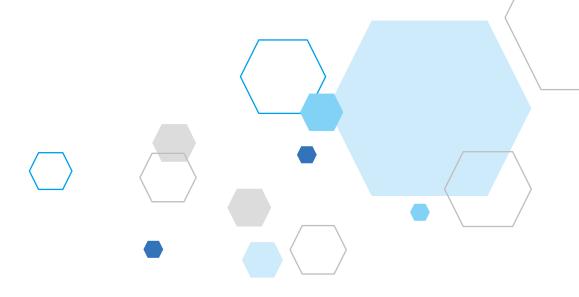
The drop in crude oil prices is eroding the cost advantages of shale gas and CTO/MTO projects.

Also, the growth in demand for petrochemical products is likely to exceed the growth in the production volume of those manufactured from shale gas. Even if these make it into Asian markets, their impact on the supply-and-demand balance and on market conditions will be limited.

2. Slowing of growth in China

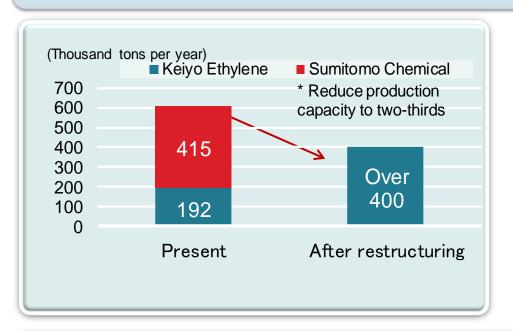
By promoting a further move to higher added value, our Group will shift to fields not readily impacted by such a slowdown. We will also seek to avoid over-dependence on the China market through wider development of Asian markets.

3. Business Strategy for Each Location



Shut down ethylene plant and procure ethylene from Keiyo Ethylene

Reduce our ethylene production capacity in Japan (May 2015)



Our ethylene production capacity in Japan

	Start of operations	Annual production capacity
Keiyo Ethylene	1994	768,000 tons*
Sumitomo Chemical	1970	415,000 tons

^{*} Includes 192,000 tons of allotment to Sumitomo Chemical

- Keiyo Ethylene's plant is the newest and largest ethylene production facility in Japan.
- Sumitomo Chemical's ethylene plant came on stream more than 40 years ago.

Keiyo Ethylene: Allocation and Equity Share Holding

	Allocation	Shareholdings
Maruzen Petrochemical	50.0%	55.0%
Sumitomo Chemical	25.0%	22.5%

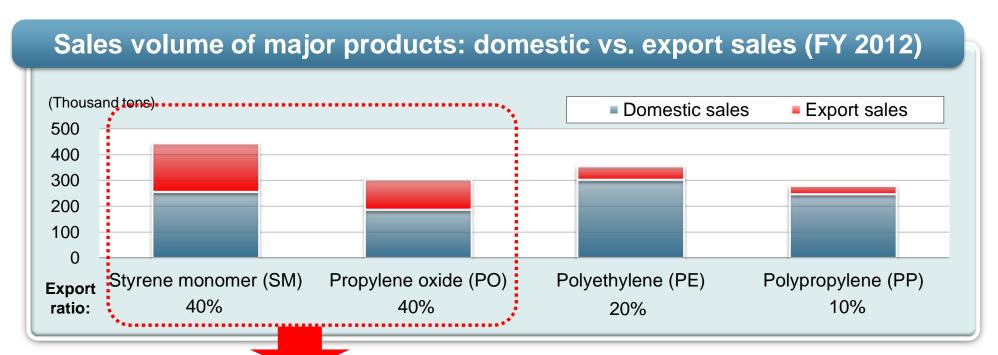


Allocation	Shareholdings
40.6%	55.0%
59.4%	45.0%

Restructuring of Chiba Works: Downsize/exit underperforming businesses

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Export sales have significantly fluctuated, generating lower-than-expected profits >>> Decided to exit businesses with a high export ratio



Exit businesses with a high export ratio

April 2012 Dissolved joint venture Chiba Styrene Monomer

May 2015 Stopped SM and PO production at

Nihon Oxirane*

Products and Production Capacity

	Products	Production capacity
Chiba Styrene Monomer	SM	108,000 tons*
Nihon Oxirane	SM	425,000 tons
	PO	181,000 tons
Sumitomo Chemical	PO	200,000 tons**

^{*}Allotment to Sumitomo Chemical **Continued production after restructuring

^{*}Acquired entire stake in Nihon Oxirane in December 2013

The core businesses of

PE (Polyethylene)

PP (Polypropylene)

PO (Propylene Oxide) will remain in Japan

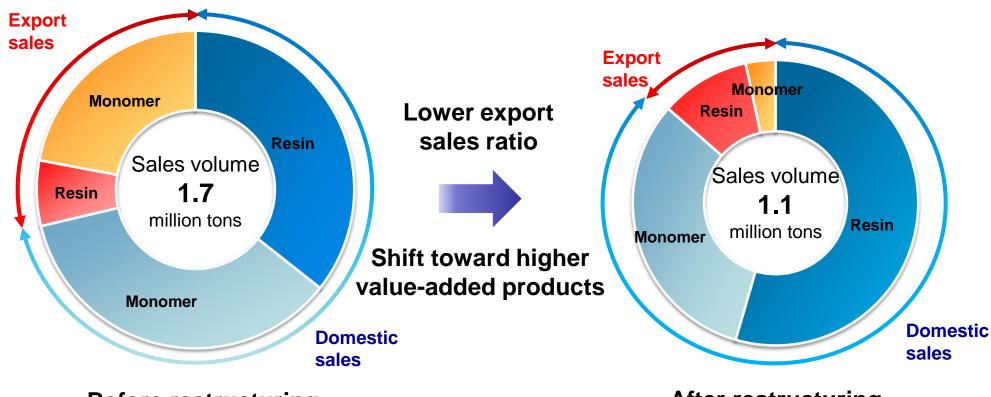


To facilitate continued overseas expansion, retain the mother factory role

Promote faster development of next-generation processes and advancedfunction catalysts

- (PE) Accelerate the shift to high-profit fields like extruded laminates and protection films
- (PP) Specialize in fields where we have strength that have strong growth prospects (automotive industry, films)
- (PO) Build a stable profit structure not subject to the vagaries of the SM market situation; make this the pillar of license revenue





Before restructuring

After restructuring

Revitalize and maintain petrochemical business in Japan by optimizing production operations

MMA Business

Current state

Increase in demand in China and other Asian countries

Sharp decline in the demand for use in lightguide plates, the major application of PMMA

Restructuring measures under consideration

- Shift production, sales and research bases to Singapore
- Stopped PMMA production in Ehime in December 2013 (capacity 45,000 tons)
- Develop new applications (Optimize product portfolio)

Caprolactam Business

Current state

Change in the supply-demand structure due to large increases in supply in China

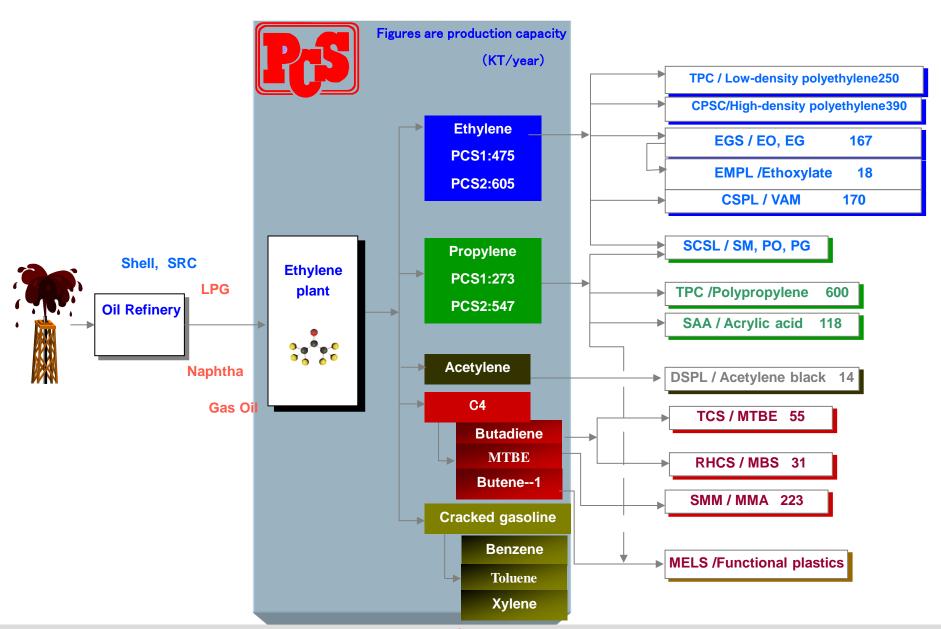


- Measures to improve competitiveness
 - Drastically reduce raw material costs
 - Build business alliance with upstream and down-stream players
- Optimize production operations (Closed down liquid-phase process plant with a production capacity of 95,000 tons in September 2015)



Present System of the Petrochemical Complex in Singapore

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Operations in Singapore: Outline of the Four Major Companies

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PCS

- Shareholders:

Japan Singapore Petrochemicals Co. 50%, QSPS 50%

- Ethylene center
 - **Production capacity First phase 465,000 tons**

Second phase 635,000tons

- Supply of ethylene, propylene, and utility supply inside the complex
- Started operation in 1984. Started operation of second phase petrochemical complex in 1997

TPC

- Nihon Singapore Polyolefin Co. 70%, QSPS 30%
- Production and sale of polyethylene and polypropylene Production capacity LDPE 235,000 tons

PP 650,000 tons

- Started operation in 1984

SCS

- Sumitomo Chemical 100%
- Production and sale of MMA monomer and polymer
 Production capacity Monomer 223,000 tons
 Polymer 150,000 tons
- Started operation in 1999

SCA

- Sumitomo Chemical 100%
- Sale of Petro Rabigh's products and production and sale of S-SBR
- Products
 PE, PP, MEG, PO,
 caprolactam, resorcinol,
 S-SBR
- Started operation in 2006

A history of more than 30 years as ASEAN's first petrochemical complex

On-going availability of outstanding and highly loyal local employees
Product quality and stable supply
Customer service

Existence of excellent Asian customers that have grown alongside us

Volume growth and quality improvement

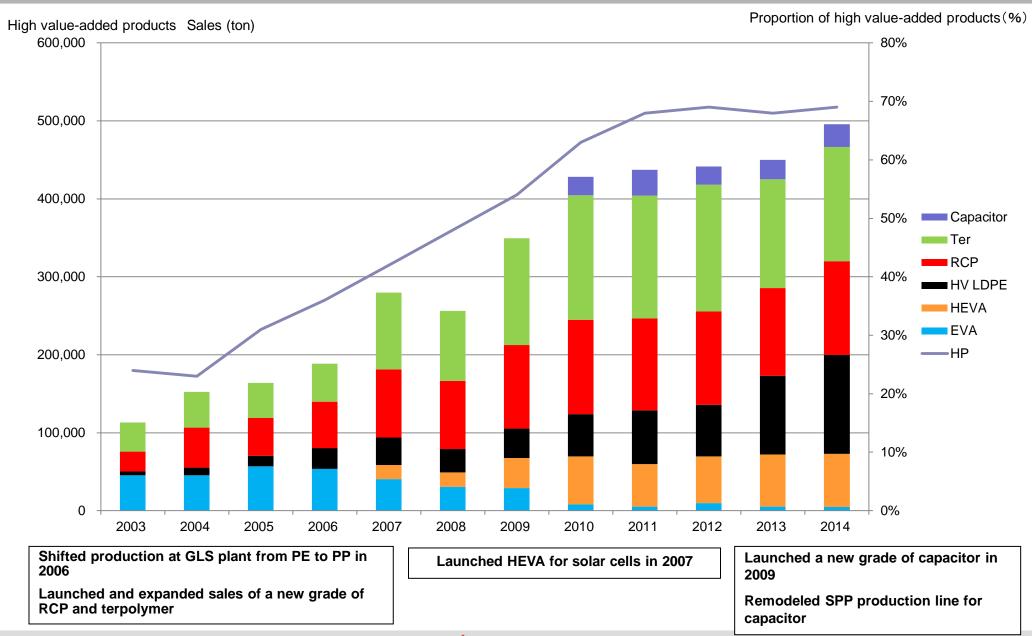
One of the world's most cost-competitive suppliers using naphtha as feedstock

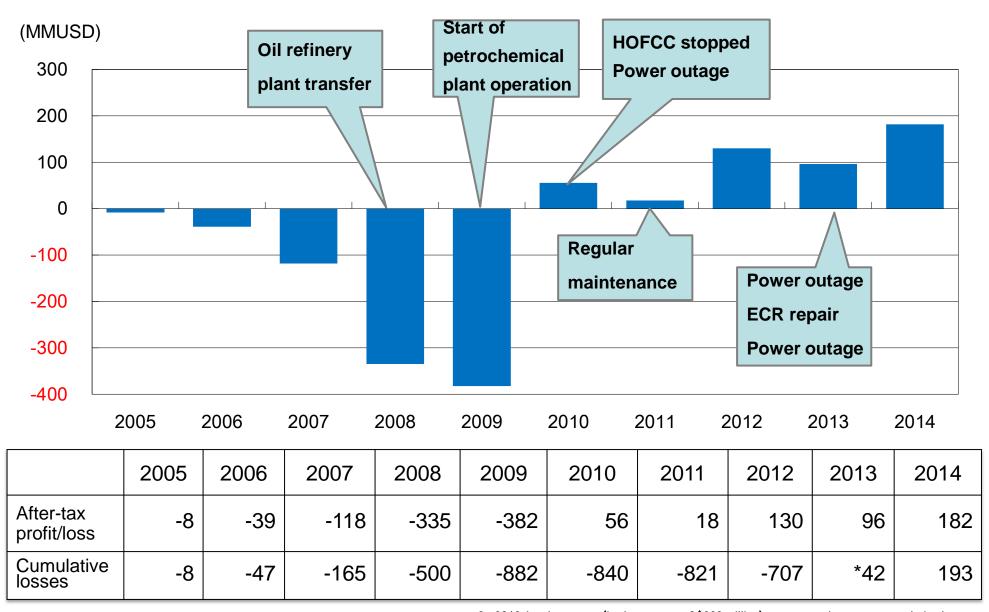
High brand value in Asian markets is the source of competitive advantage

Also a foothold for expanding to Saudi Arabia

TPC Shift to High Value-added Products

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 \star In 2013, legal reserves (in the amount of \$663 million) were tapped to cover cumulative losses.

Measures to Improve Petro Rabigh's Performance

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Issue	Measures
Shortage of personnel	Review hiring policy and system
	 Make use of recruitment agencies and strengthen overseas hiring activities
Raising skill levels of existing human resources	 Thoroughly implement basic education ⇒ Document basic knowledge and rules necessary for operators Redo assessment by parent companies to cover the entire organization Assign outstanding experienced persons and aim for human resource development through OJT

☆In addition, boost the program of dispatching experts from both parent companies.

Accomplishments have emerged as a result of parent company support for Petro Rabigh and the presention of various solution measures.

Improve operating rate

Improved operation of ECR cracking furnace (longer furnace life)

Improved plant control (longer catalyst life achieved by improvement to operating conditions)

More stable refinery operation

Improve yield

Improvement in proportion of on-spec polymer products

☆ These measures have improved financial performance by more than \$20 million.

1 Construction schedule

- ✓ Production facilities will start operations one after another as planned, from the first half of 2016.
- ✓ Utility plants, an ethane cracker, and derivative plants will come on stream in stages.

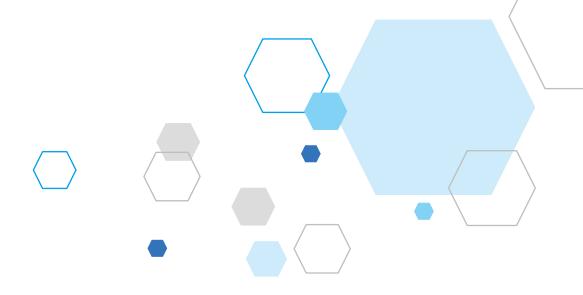
2 Marketing

✓ Marketing by Sumitomo Chemical Asia mainly in China and other Asian countries, as well as in the Middle East and Europe

3 Value of Rabigh Phase II Project

- ✓ Effective use of newly allocated cost-competitive ethane
- ✓ Production of high value-added petrochemical products from naphtha

4. Technology Development Strategy



For stable operations of aging chemical plants in Japan, early discovery and prevention of corrosion and other problems are vital.

- > Focus on inspections of aging plants and common pipes
- Consider and adopt new inspection methods
- Take corrosion prevention measures

Through these efforts,

- ✓ Improve inspection efficiency
- ✓ Increase accuracy of inspection
- ✓ Prevent problems
- ✓ Extend the life of plants
- ✓ Continue safe and stable operations

Safe and stable operations of plants are the largest source of long-term competitiveness. Only the companies that continuously improve operations and maintenance survive.

Development of new manufacturing

technology

R&D strategy supporting business strategy "Pursue customer value and cost advantage based on our products and

technologies accumulated over the years" **Create and pursue theme for the future** Pursue customer value **Foundation** Development of differentiated products for the future Polyolefin Consider both technology **Development of** Elastomer and marketing new technology

(Restructured research organization and established Resin-related Business Development Dept.)

Catalyst, process ^{Technology,} Products Market penetration

and products

Existing \leftarrow **Market**

Market R&D in response to development globalization of business

New

(technological refinements)

Provide materials with functions that match local customers' needs

Technological development supporting licensing business (catalysts, processes, products)

Early development of technologies to maintain and expand business

High quality, stable supply, rationalization

Business Strategy for the Petrochemicals & Plastics Sector

5. Final Words: Framework of Our Next Corporate Business Plan

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Increase profits by taking advantage of the strengths of manufacturing bases in Japan, Singapore and Saudi Arabia

Domestic operations

The role of the Japanese base as the mother factory and mother laboratory is becoming stronger in developing new technologies for safe and stable operations as well as high value-added products. The Japanese base also focuses on the efficient management, differentiation, and licensing activity for existing businesses including PO and polyolefin.

Singapore

Remain a front runner in the Asian market by reinforcing current strengths in personnel, customer assets and costs, while strengthening a structure less affected by market conditions, as a steady source of profit and added value to customers.

Saudi Arabia

Establish solid profitability effects of scale and low costs, by maintaining stable operation of Rabigh Phase I Project facilities and smoothly launching Rabigh Phase II Project facilities.

(Reference)

	Company name and business	Ownership ratio
PCS	Petrochemical Corporation of Singapore (Pte.) Ltd. Ethylene center in petrochemical complex in Singapore	39.3%
TPC	The Polyolefin Company (Singapore) Pte. Ltd. Manufacturing and sales of polyethylene and polypropylene	67.0%
SCA	Sumitomo Chemical Asia Pte Ltd. Manufacturing and sales of petrochemical products	100.0%
SCS	Sumitomo Chemical Singapore Pte. Ltd. Control over manufacturing and sales of MMA monomer and polymer Sales of chemical products	100.0%
PRC	Rabigh Refining and Petrochemical Company Manufacturing and sales of refined petroleum products and petrochemicals	37.5%

Creative Hybrid Chemistry



Cautionary Statement

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The important factors that could cause actual results to differ materially from those discussed in the forward-looking statements include, but are not limited to, general economic conditions in Sumitomo Chemical's markets; demand for, and competitive pricing pressure on, Sumitomo Chemical's products in the marketplace; Sumitomo Chemical's ability to continue to win acceptance for its products in these highly competitive markets; and movements of currency exchange rates.